

CURRICULUM VITAE

Name	Arcady Pavlovich Zhukov	
Date and place of birth	1956, December 28, Alma-Ata, USSR	
Employment record:		
Physics-Chemistry Department of Moscow Steel and Alloys Institute (presently National University of Science and Technology "MISIS")	student	1974-1980
(Head of Department and professor of the "Solid State Physics" – Prof. Alexei Abrikosov, Nobel Price in Physics, 2003)		
Institute of Solid State Physics of Russian Academy of Sciences (ISSP)	research probationer	1980-1982
	post-graduate	1982-1986
	research associate	1986-1994
	Ph.D.	1988
supervisor - Prof. B.K.Ponomarev		
	Habilitation (Doctor of Science)	2010
(Moscow State University "M.V. Lomonosov")		
Instituto de Magnetismo Aplicado, Madrid, Spain	postdoctoral fellowship	1994-1996
European Community, Programme ESPRIT	fellowship	February -December 1996
European Community, Programme MUSIC	fellowship	January -June 1997
University of Basque Country San Sebastian, Spain	visiting scientist	July 1997- June 1999
University of Basque Country San Sebastian, Spain	contracted scientist	July 1999- June 2000
Donostian International Physics Centre, University of Basque Country	invited professor	July 2000 - December 2001
Institute of Material Science, CSIC	researcher	January 2002 - (Ramon y Cajal prog.) October 2003
University of Basque Country San Sebastian, Spain	researcher	November 2003 - February 2011
University of Basque Country San Sebastian, Spain, Ikerbasque Foundation for Science	Research Professor	March 2011 -up to now

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Address: Department Of Physics of Materials, Chem. Faculty, University of the Basque Country, P. Manuel de Lardizabal, 3, 20018 Spain

Scientific interests	Magnetic materials, Amorphous Nano-crystalline and Granular magnetic materials, Hysteretic magnetic properties, Magnetic wires, magneto-electric effects, transport properties (Giant magneto-impedance effect, Magneto-resistance), magnetic properties at high pulsed magnetic fields, fluctuation phenomena in magnets, magnetic sensors.
Identification card No	72518102E

Research ID: B-7497-2014
ORCID code: 0000-0001-5025-4859

Knowledge of foreign languages: English, Spanish, Russian (native)

Visits of foreign laboratories:

1. Center: Institute of material science of DDR

Place: Dresden **Country:** Germany **Year:** 1989

Duration: 1 week

Subject: Amorphous materials

2. Center: Central Institute of Physical Investigations

Place: Budapest **Country:** Hungary **Year:** 1990

Duration: 1 week

Subject: Amorphous materials

3.Center: Institute Of solid State Physics, Russian Academy of Sciences, Russia,

Place: Chernogolovka, province Moscow, **Country:** Russia, **Researcher, Years:** 1980-1994

1980-1988 – probationer, predoctoral fellow; 1988-1994 – Research associate (permanent contract)

Subject: Amorphous materials

4. Center: Universidad Complutense, Instituto de Magnetismo Aplicado,

Place: Madrid **Country:** Spain

Postdoctoral Fellowship MEC **Duration:** 1994 - 1997 **Subject:** Amorphous materials

- 5. Center:** Instituto de Ciencia de Materiales de Madrid, CSIC Contracted Researcher
(program Ramón y Cajal) 2002 -2003 **Place:** Madrid, **Subject:** Amorphous materials,
- 6. Center:** University of Nebraska, Center for Materials Research and Analysis **City :** Lincoln, **Country:** USA., **Year:** April 2001, **Duration:** 1 week, **Subject:** Amorphous materials,
- 7. Center:** Institute of Physics, Polish Academy of Sciences, **Place:** Warszawa, **Year:** September 2003, **Duration:** 2 weeks, **Subject:** Amorphous materials
- 8. Center:** Institute of Physics, Polish Academy of Sciences, **Place:** Warszawa, **Year:** September 2005, **Duration:** 2 weeks, **Subject:** Amorphous materials
- 9. Center:** Moscow State University “Lomonosov”, Faculty of Physics, **Place:** Moscow, **Duration:** 2 months **Year:** 01/03/09-30/04/09, 2009, Stay under the programme “perfeccionamiento y movilidad de personal investigador del Gobierno Vasco”, **Subject:** Amorphous materials
- 10. Center:** National University of Science and Technology “MISIS”: Moscow, **Duration:** 5 months **Year:** 01/03/10-31/07/10, 2010, **Subject:** Amorphous materials, Stay under the programme “perfeccionamiento y movilidad de personal investigador del Gobierno Vasco”, 5 months (01/03/09-31/07/2010)
- 11. Center:** National University of Science and Technology “MISIS”, **Place:** Moscow, **Duration:** 2 months **Year:** 28/09/13-27/11/13, 2013, **Subject:** Amorphous materials, Stay under the programme “perfeccionamiento y movilidad de personal investigador del Gobierno Vasco”, 2 months (28/09/13-27/11/13)
- 12. Center:** Moscow State University “Lomonosov”, Faculty of Physics, **Place:** Moscow, **Duration:** 2 months **Year:** 23/02/16-22/04/16, 2016, Stay under the programme “perfeccionamiento y movilidad de personal investigador del Gobierno Vasco”, **Subject:** Amorphous materials
- 13. Center:** Moscow State University “Lomonosov”, Faculty of Physics,
LOCALIDAD: Moscow PAÍS: Rusia AÑO: 2017 DURACIÓN: 2 meses
TEMA: Amorphous materials, CLAVE: O(perfeccionamiento y movilidad de personal investigador del Gobierno Vasco”, 2 months (21/10/17-20/12/17)

14.

Post-doctoral fellowship:

Instituto de Magnetismo Aplicado, Las Rozas, P.O. Box 155, 28230, Madrid, Spain.
Duration - 2 years, February 1994- February 1996, Subject - Amorphous Magnetic Materials
Adviser - Prof. M. Vázquez

Awarding by foundations:

- Individual grant of the International Science Foundation, 1993
- Premio de Manuel Laborde Werlinden, 2004
- Plaque of appreciation for the Invited talk “Tailoring of Magnetic Properties of Magnetostatically-Coupled Glass-Covered Magnetic Microwires”, The II Int. Conference on Superconductivity & Magnetism - ICSM2010 (Antalia, Turkey, Apr. 30, 2010).
- Plaque of appreciation for the Invited talk “Giant magnetoimpedance in thin wires: from manipulation of magnetic field dependence to industrial applications”, The III Int. Conference on Superconductivity & Magnetism - ICSM2012 (Istanbul, Turkey, Apr. 30, 2012).

- Plaque of appreciation for the lectures “Giant Magneto-impedance effect of soft magnetic nano wires and applications” and “Dw dynamics in thin wires”, at 3-d International Spring School and Educational Courses SSEC2012 (April 2012, Istanbul, Turkey)
- Plaque of appreciation for the Invited talk “Optimization of Magnetic Properties and Giant Magnetoimpedance Effect in Nanocrystalline Microwires”, The IV Int. Conference on Superconductivity & Magnetism - ICSM2014 (Antalya, Turkey, Apr. 29, 2014).
- Plaque of appreciation for the Invited talk “Engineering of giant magnetoimpedance effect of amorphous and nanocrystalline microwires”, The V Int. Conference on Superconductivity & Magnetism - ICSM2016 (Fethie, Turkey, Apr., 2016).
- MEDAL FOR THE YEAR 2018 of the ASSOCIATION OF ADVANCED MATERIALS due to notable and outstanding contribution received during the IAAM award ceremony in the European Advanced Materials Congress 2018, August 21, 2018

PHD THESIS SUPERVISED

TITLE: Magnetic Microwires with high Technological Interest.

STUDENT: ANTXON FERNANDEZ COBEÑO

UNIVERSITY: **University of Basque Country University** (UPV/EHU)

FACULTY: EUITI (**San Sebastián**)

YEAR: Initiated in 1997, Defence: 2002

QAULIFICATION: *Cum Lauden*

TITLE: Magnetic and structural properties of Magnetic wires and Microwires.

STUDENT: Carlos García García,

UNIVERSITY: **University of Basque Country University** (UPV/EHU)

FACULTY: **Dept. Phys. of Materials, Chemistry Faculty** (**San Sebastián**)

YEAR: Initiated in 2003, Defence: *April* 2007

QAULIFICATION: *Cum Lauden*

TITLE: Estudio de Microhilos Magnéticos para aplicaciones Tecnológicas

STUDENT: Mihail Ipatov

UNIVERSITY: **University of Basque Country University** (UPV/EHU)

FACULTY: **Dept. Phys. Of Materials, Basque Country University, San Sebastián**

YEAR: *Initiated* 2005, Defence: 17 de March, 2008,

QAULIFICATION: *Cum Lauden:*

TITLE: Modern advances in glass-coated microwires: A significant distinction as a soft magnet

STUDENT: Ahmed Talaat

UNIVERSITY: **University of Basque Country University** (UPV/EHU)

FACULTY: **Dept. Phys. of Materials, Chemistry Faculty** (**San Sebastián**)

YEAR: *Initiated* 2012, Defence: 9 February 2016,

QAULIFICATION: *Cum Lauden:*

TITLE: Functional magnetic materials prepared by rapid quenching

STUDENT: Jakub Miño

UNIVERSITY: Co-tutele **University of Basque Country University** (UPV/EHU) and Pavol Jozef Šafárik University in Košice

FACULTY: **Dept. Phys. of Materials, Chemistry Faculty** (**San Sebastián**) and **Faculty of Science (Kosice)**

YEAR: *Initiated* 2013, Defence: 28 August 2017,

QAULIFICATION: *Cum Lauden*

Projects

PARTICIPATON IN RESEARCH PROYECTOS

PROJECT TITLE: LLAVES MAGNÉTICOS
FINANCING ENTITY: CLEM S.A.
DURATION FROM: 1.11.1994 **TO:** 30.06.1995
PRINCIPAL INVESTIGATOR: PROF. A. HERNANDO

Título del proyecto: Magnetic Integrated Circuits (MAGIC) (Ref.: NAN2004-09203-C04-01)
Entidad financiadora: Unión Europea (acción GAME en microistemas), programa ESPRIT, Comisión Europea-ESPRIT-GAME
Entidades participantes: Alcatel, Philips (Holanda), IMA (España), UPM, Universidad de Oviedo
Duración beca, desde: 01/02/1996 *hasta:* 31/12/1996
Duración proyecto: 1994-1996 (3 años)
Investigador responsable: Manuel Vázquez
FUNCIÓN: Becario postdoctoral (2 becas- 1 año)

ENTIDAD FINANCIADORA: Unión Europea, programa BRITE-EURAM
Proyecto: (MUSIC) "Multiple simultaneous code, MUSIC" EU Brite 1997-1999" ref. (BE96-3063. BRPR-CT96-0218)
PARTICIPANTES: Brandenburgische Technische Universität Cottbus (Alemania), CEDRAT Technologies (Francia), Etablissement Degreane (Francia), Ikea International AS (Dinamarca), Instituto de Magnetismo Aplicado (UCM) Madrid, Vacuumschmelze GmbH (Alemania)
DURACIÓN beca: 01.01.1997-30.06.1997
FUNCIÓN: Becario postdoctoral
Investigador responsable: Antonio Hernando

PROJECT TITLE: Magnetismo de microhilos amorfos y nanocristalinos de interés tecnológico
FINANCING ENTITY: CONSEJERIA DE EDUCACION DEL GOBIERNO VASCO
DURATION FROM: 01.01.1998 **TO:** 31.12.2000
PRINCIPAL INVESTIGATOR: PROF. J.M. BLANCO

Título del contrato/proyecto: Sensores Magnéticos, Magnetoelásticos y Magnetorresistentes
Tipo de contrato: Predesarrollo
Empresa/Administración financiadora: Departamento de Industria del Gobierno Vasco y COPRECI S.C.L. (Grupo Mondragón)
Entidades participantes: UPV y COPRECI S.C.L.
Duración, desde: 1/01/1998 **hasta:** 31/12/1999
Investigador responsable: Julián María González Estévez
Función: miembro de equipo y contratado (1 año)

PROJECT TITLE: Firma magnetoelástica: Desarrollo de sensores magnetoelásticos para la identificación y autenticación de firma empleando microhilos magnéticos como elementos sensores
FINANCING ENTITY: MCyT, PETRI 95-0594-OP
DURATION FROM 20.05.2002 **TO:** 20.05.2003
PRINCIPAL INVESTIGATOR: PROF. M. Vázquez

PROJECT TITLE: Magnetostrictive bi-layers for multifunctional sensor families
FINANCING ENTITY: Comunidades Europeas (Growth, GRD1-2001-40725)
DURACION FROM: 01.04.2002 **TO:** 30.03.2005
PRINCIPAL INVESTIGATOR: PROF. M. Vázquez

PROJECT TITLE: Magnetotransporte en función de la frecuencia: del magnetismo de volumen al de superficie (MAT 2001-0082-C04-02).
FINANCING ENTITY: MCYT
DURATION FROM 01.01.2002 **TO:** 30.06.2003

PRINCIPAL INVESTIGATOR: Prof.F. Batallan

PROJECT TITLE: Anisotropía magnética en microhilos amorfos y nanocristalinos (2003PL0013)

FINANCING ENTITY: Comisión Mixta Hispano-Polaca,

DURATION FROM 01.01.2003 TO: 31.12.2004

PRINCIPAL INVESTIGATOR: Dr.A. Zhukov y Dr. R. Zuberek

PROJECT TITLE: Desarrollo de microhilos metálicos para aplicaciones en codificación magnética (UE03/A27)

FINANCING ENTITY: UPV/EHU (Universidad- empresa)

DURATION FROM 01.01.2004 TO: 31.12.2005

PRINCIPAL INVESTIGATOR: Dr.A. Zhukov

PROJECT TITLE: Proceso de imanación y magnetotransporte en materiales diseñados (MAT2004-05348-C04-04)

FINANCING ENTITY: MCYT

DURATION FROM 01.01.2005 TO: 31.12.2007

PROVIDED FUNDING: 83.800 Euros

PRINCIPAL INVESTIGATOR: Dr.A. Zhukov

PROJECT TITLE: Estudios de la anisotropía magnética en microhilos amorfos y nanocristalinos

FINANCING ENTITY: Ministerio de Asuntos Exteriores y de Cooperación

DURATION FROM 01.11.2004 TO: 31.12.2005

PRINCIPAL INVESTIGATOR: Dr.A. Zhukov y Dr. R. Zuberek

PROJECT TITLE: Fabricación y Caracterización de Nanomateriales con Efecto Magnetocalórico a Alta Temperatura.

FINANCING ENTITY: MEC (Acción Estratégica de Nanociencia y Nanotecnología

PARTICIPATING ENTITIES: Universidad del País Vasco (Coordinador), Universidad de Oviedo,

Universidad de Santiago de Compostela y el Centro Tecnológico CIDETEC

DURATION FROM: 28/12/2005 TO: 27/12/2008

PRINCIPAL INVESTIGATOR: Julián María González Estévez

NUMBER OF PARTICIPATING INVESTIGATORS: 4

PROJECT TITLE: Development of Magnetic Micro-Wires for Technical Applications (DEVMAGMIWIRTEC)

FINANCING ENTITY: MANUNET-2007-Basque-3 (ERA-NET, FP-7)

PARTICIPATING ENTITIES: Universidad del País Vasco, Tamag Ibérica (Coordinador), Univerity of Pavol Jozef Safarik in Kosice, Company EDIS (Slovak Republic), Faculty of Aeronautics, Technical University in Kosice (Slovak Republic), EAR Aplicaciones Electronicas S.L. (Spain)

DURATION FROM: 01/01/2008 TO: 31/12/2010

PRINCIPAL INVESTIGATOR: Arcady Zhukov

PROVIDED FUNDING: 93.000 Euros

NUMBER OF PARTICIPATING INVESTIGATORS: 12

PROJECT TITLE: Materiales artificialmente estructurados (metamateriales) basados en microhilos con alto efecto de la magnetoimpedancia en el rango de microondas y sus aplicaciones (Saiotek 08 METAMAT, S-PE08UN44)

FINANCING ENTITY: GOBIERNO VASCO, SPRI

PARTICIPATING ENTITIES: UPV/EHU

DURATION FROM: 01/01/2008 TO: 31/12/2009

PRINCIPAL INVESTIGATOR: Arcady Zhukov

NUMBER OF PARTICIPATING INVESTIGATORS: 7

PROVIDED FUNDING: 30.152,59 Euros

PROJECT TITLE: Nanotron - Nanociencia y nanotecnología para micro y nanosistemas.

Tipo de contrato: Proyecto de Investigación Estratégica (ETORTEK)

FINANCING ENTITY: Departamento de Industria del Gobierno Vasco y Diputación Foral de Guipúzcoa

PARTICIPATING ENTITIES: Centros Tecnológicos: CIDETEC, CEIT, INASMET, DIPC. De la UPV/EHU: Instituto POLYMAT y los Grupos de Investigación de MAGNETISMO (GM) y Materiales (GMT)

DURATION FROM: 01/01/2006 TO: 31/12/2008

PRINCIPAL INVESTIGATOR: Julián María González Estévez

NUMBER OF PARTICIPATING INVESTIGATORS: más de 30

TOTAL FUNDING OF THE PROJECT : 3.000.000 Euros. (226.500 Euros para GM-UPV)

PROJECT TITLE: Desarrollo de nuevos nanosistemas para aplicaciones TIC, S-PE06C10

FINANCING ENTITY: SPRI (proyectos Saiotek)

PARTICIPATING ENTITIES: UPV/EHU

DURATION FROM: 01/01/2006 TO: 31/12/2007

PROVIDED FUNDING: 30.188 Euros

PRINCIPAL INVESTIGATOR: Julián María González Estévez

NUMBER OF PARTICIPATING INVESTIGATORS: 6

PROJECT TITLE: Microhilos magnéticos finos con alto efecto GMI, S-PE09UN38

FINANCING ENTITY: SPRI (proyectos Saiotek)

PARTICIPATING ENTITIES: UPV/EHU

DURATION FROM: 01/01/2009 TO: 31/12/2010

PROVIDED FUNDING: 16.880 Euros

PRINCIPAL INVESTIGATOR: Valentina Zhukova

NUMBER OF PARTICIPATING INVESTIGATORS: 6

PROJECT TITLE: Preparación y Caracterización de Metamateriales Magnéticos para Aplicaciones en Alta Frecuencia

MEC (Plan Nacional de Materiales)

FINANCING ENTITY: MEC (Plan Nacional de Materiales) MAT2007-66798-C03-01

PARTICIPATING ENTITIES: UPV/EHU, CIDETEC, CEIT,

PRINCIPAL INVESTIGATOR: Julián M. González Estévez

NUMBER OF PARTICIPATING INVESTIGATORS: 17

DURATION FROM: 01/01/2008 TO: 31/12/2010

PROJECT TITLE: Desarrollo de materiales inteligentes con alto efecto de magnetoimpedancia y de metamateriales basados en microhilos magnéticos para aplicaciones multifuncionales, MEC (Plan Nacional de Materiales)

FINANCING ENTITY: MEC (Plan Nacional de Materiales) MAT2010-18914 (subprograma MAT)

PARTICIPATING ENTITIES: UPV/EHU

PRINCIPAL INVESTIGATOR: A. ZHUKOV

NUMBER OF PARTICIPATING INVESTIGATORS: 17

DURATION : 3 Años (FROM 01/01/2011) TO: 31/12/2013

PROVIDED FUNDING: 100.000 Euros

PROJECT TITLE: Microhilos magnéticos con propagación ultrarrápida de paredes de dominios magnéticos (MIMAGURA project (S- PE11UN087), proyecto Saiotek)

FINANCING ENTITY: GOBIERNO VASCO, SPRI

PARTICIPATING ENTITIES: UPV/EHU

DURATION FROM: 01/01/2011 TO: 31/12/2012

PRINCIPAL INVESTIGATOR: Arcady Zhukov

NUMBER OF PARTICIPATING INVESTIGATORS: 7

PROVIDED FUNDING: 10.000 Euros

PROJECT TITLE: Nuevos materiales magnéticos con anisotropía helicoidal para aplicaciones en sensores inteligentes Saiotek-2011 MAGNANEL (S-PE11UN085), proyecto Saiotek)

FINANCING ENTITY: GOBIERNO VASCO, SPRI

PARTICIPATING ENTITIES: UPV/EHU

DURATION FROM: 01/01/2011 TO: 31/12/2012

PRINCIPAL INVESTIGATOR: Mihail Ipatov

NUMBER OF PARTICIPATING INVESTIGATORS: 6
PROVIDED FUNDING: 8.380 Euros

PROJECT TITLE: Desarrollo de nuevos materiales magnéticos con efectos de memoria de forma magnética y magnetocalórico S-PE12UN139 (MEMFOMAG)

FINANCING ENTITY: Gobierno Vasco (Saiotek)

PARTICIPATING ENTITIES: UPV/EHU

PROVIDED FUNDING: 18.853,00 Euros

DURATION FROM: 01/01/2012 TO: 31/12/2013

PRINCIPAL INVESTIGATOR: Valentina Zhukova

NUMBER OF PARTICIPATING INVESTIGATORS: 6

PROJECT TITLE: Development of soft Magnetic Microwires with GMI effect for Micro-Sensors (SoMaMicSens)

FINANCING ENTITY: MANUNET-2010 -598 (ERA-NET within FP7 EU projects), Gobierno Vasco (GaitekIG-2011/0000881, IG-2012/0000184, IG-2013/00530)

PARTICIPATING ENTITIES: Universidad del País Vasco, Tamag Ibérica (Coordinador), University of Pavol Jozef Safarik in Kosice, Company EDIS (Slovak Republic), Faculty of Aeronautics, Technical University in Kosice (Slovak Republic), GAIA (Spain), Suarcom S.L. (Spain), Fagasa S.L. (Spain)

PROVIDED FUNDING: 235,000 Euros (solicitado), 100,000 concedido

DURATION FROM: 01/01/2011 TO: 31/12/2013

PRINCIPAL INVESTIGATOR: Valentina Zhukova (UPV)

NUMBER OF PARTICIPATING INVESTIGATORS: 8

TÍTULO: Subvención a Grupos de Investigación de Alto Rendimiento "Nanomagnetismo y Spintronica"

Entidad Financiadora: Gobierno Vasco Duración: De 01.01.2013 a 31.12.2015

Lugar de realización del trabajo: Dpto. de Física de Materiales de la Facultad de Ciencias Químicas de la Universidad del País Vasco

INVESTIGADOR/A PRINCIPAL: Julián María González Estévez

CUANTÍA DE LA SUBVENCIÓN: 104.300,00 Euros

TÍTULO DEL PROYECTO: DESARROLLO DE MICROHILOS MAGNÉTICOS CON PROPAGACIÓN ULTRARRÁPIDA DE PAREDES DE DOMINIOS MAGNÉTICOS (S-PE13UN007), DURADMAG, proyecto Saiotek)

ENTIDAD FINANCIADORA: Gobierno Vasco (Saiotek)

ENTIDADES PARTICIPANTES: UPV/EHU

CUANTÍA DE LA SUBVENCIÓN: 2.153,63 Euros

DURACIÓN DESDE: 01/01/2013

HASTA: 30/06/2014

INVESTIGADOR/A PRINCIPAL: Arcady Zhukov

NÚMERO DE INVESTIGADORES PARTICIPANTES: 4

TÍTULO DEL PROYECTO: ESTUDIO DE LAS PROPIEDADES MAGNETICAS Y DEL EFECTO DE MAGNETOIMPEDANCIA DE MICROHILOS. S-PE13UN014(PROMAGMI)

ENTIDAD FINANCIADORA: Gobierno Vasco (Saiotek)

ENTIDADES PARTICIPANTES: UPV/EHU

CUANTÍA DE LA SUBVENCIÓN: 1.955,56 Euros

DURACIÓN DESDE: 01/01/2013

HASTA: 30/06/2014

INVESTIGADOR/A PRINCIPAL: Valentina Zhukova

NÚMERO DE INVESTIGADORES PARTICIPANTES: 7

TÍTULO DEL PROYECTO: Donostia International Workshop on Energy, Materials and Nanotechnology (DINEMN-2015)

ENTIDAD FINANCIADORA: UPV/EHU

ENTIDADES PARTICIPANTES: UPV/EHU

CUANTÍA DE LA SUBVENCIÓN: 8.500,00 Euros

DURACIÓN DESDE: 04/09/2015

HASTA: 03/03/2016

INVESTIGADOR/A PRINCIPAL: Arkady Zhukov Egorova

NÚMERO DE INVESTIGADORES PARTICIPANTES: 6

PROJECT TITLE: Nuevos materiales (micro-nano estructurados) para dispositivos de extracción y cesión de calor, actuadores, sensores y memorias MAGNETICAS, Referencia MAT2013-47231-C2-1-P

FINANCING ENTITY: MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD (Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia en el marco del Plan Estatal I+D+I)

PRINCIPAL INVESTIGATOR: Arkady Zhukov Egorova

Entidad Universidad del País Vasco/Euskal Herriko Unibertsitatea, UPV/EHU

DURATION FROM: 01/01/2014 TO: 31/12/2017

NUMBER OF PARTICIPATING INVESTIGATORS: 8

PROVIDED FUNDING: 108.653,06 Euros

TITULO: Subvención Extraordinaria a Grupos de Investigación de Alto Rendimiento "Nanomagnetismo y Spintronica" PPG17/35

Entidad Financiadora: UPV/EHU Duración: De 01.01.2017 a 31.12.2018

Lugar de realización del trabajo: Dpto. de Física de Materiales de la Facultad de Ciencias Químicas de la Universidad del País Vasco

INVESTIGADOR/A PRINCIPAL: Julián María González Estévez

CUANTÍA DE LA SUBVENCIÓN: 28.000,00 Euros

TÍTULO DEL PROYECTO: RTM4.0: Composites para automoción fabricados mediante RTM adaptada a filosofía Industry 4.0

ENTIDAD FINANCIADORA: Gobierno Vasco ELKARTEK,

ENTIDADES PARTICIPANTES: UPV/EHU, TECNALIA, FUNDACION GAIKER, MONDRAGON UNIBERTSITATEA, POLYMAT, KONIKER, Maier Technology Centre S. Coop.

DURACIÓN DESDE: 01/01/2017 HASTA: 31/12/2018

INVESTIGADOR/A PRINCIPAL: Arkady Zhukov Egorova

NÚMERO DE INVESTIGADORES PARTICIPANTES: 5

CUANTÍA DE LA SUBVENCIÓN: 64.372,75 Euros

TÍTULO DEL PROYECTO: Sensores Innovadores basados en Materiales Activos Multifuncionales para la monitorización 4.0 de los procesos constructivos y salud estructural en infraestructuras. "SIMAM"

ENTIDAD FINANCIADORA: Gobierno Vasco HAZITEK,

ENTIDADES PARTICIPANTES: UPV/EHU, EXCAVACIONES VIUDA DE SAINZ (EVS), EVS, BELAKO LANAK, FAGOR ELECTRONICA, ULMA CONSTRUCTION, ABEKI COMPOSITES, BERRILAN, PREFABRICADOS ETXEBERRIA + HORMOR, ZYLK, TECNALIA, GAIKER, BCMATERIALS

DURACIÓN DESDE: 01/01/2017 HASTA: 31/12/2019

INVESTIGADOR/A PRINCIPAL: Arkady Zhukov Egorova

NÚMERO DE INVESTIGADORES PARTICIPANTES: 7

CUANTÍA DE LA SUBVENCIÓN: 63000 Euros

TÍTULO DEL PROYECTO: Energy Application (NEOHIRE)

ENTIDAD FINANCIADORA: Comisión Europea

CONVOCATORIA: (Horizont 2020) 2016-2017 – Programa: NMBP-3-2016

Investigador principal: Julián Mª González Estévez

Entidad de afiliación: Universidad el País Vasco (UPV/EHU)

Fecha de inicio: 01/02/2017 Fecha de finalización: 31/01/2020

Cuántía financiación: 251,500€

Tipo de participación: Julian Gonzalez

TÍTULO DEL PROYECTO: INVESTIGACIÓN DE NUEVOS MATERIALES FUNCIONALES MICRO-NANO ESTRUCTURADOS PARA SENSORES Y MEMORIAS MAGNÉTICAS

ENTIDAD FINANCIADORA: Gobierno Vasco- PIBA 2018 -44

ENTIDADES PARTICIPANTES: UPV/EHU

CUANTÍA DE LA SUBVENCIÓN: UPV/EHU: 49.268,00 Euros

DURACIÓN DESDE: 30/09/2018 HASTA: 30/10/2021

INVESTIGADOR/A PRINCIPAL: Valentina Zhukova Zhukova

NÚMERO DE INVESTIGADORES PARTICIPANTES: UPV/EHU: 6

PARTICIPATION RESEARCH CONTRACTS OF ESPECIAL RELEVANCE WITH COMPANIES AND/OR ADMINISTRATIONS

CONTRACT TITLE: Proyecto Oferta/Demanda "Nuevos Sensores Magnéticos, Magnetoelásticos y Magnetoresistentes" del proyecto "Lavadora siglo XXI" del Departamento de Industria, Agricultura y Pesca del Gobierno Vasco.

FINANCING COMPANY: COPRECI SCL, Mondragon División Components,

DURATION FROM: 01.01.96 TO: 31.12.00

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PATENTS

1. B.K. Ponomarev, A. P. Zhukov, Set-up for measurement of magnetic properties of toroidal samples, Discoveries and Inventions (sov), 1985, 18, 175. № 01157489 (1985 №2 The Patents of Russia (backfile))
2. A.P. Zhukov, C.F. Cálalan, J.M. Beneytez and M. V. Vázquez, Magnetoelastic set-up for identification and authentication of the signature, Patent No 9600172 (Spain).
3. V. Larin, A. Torcunov, S. Baranov, M. Vázquez, A. Zhukov and A. Hernando, Method of magnetic codification and marking of the objects, Patent No P 9601993 (Spain).
4. V. Larin, A. Torcunov, S. Baranov, M. Vázquez, A. Zhukov, A. Hernando and P. Marin, Method of fabrication of amorphous microwires with determined magnetic properties, Patent No P 9601993 (Spain).
5. M. Vázquez, A. Zhukov, A. Hernando, V. Larin, A. Torcunov, L. Panina, J. Gonzalez and D. Mapps. "Microwire and process of their fabrication. AWP/RPS/56672/000, No0108373.2
5. A. Zhukov, V. Zhukova, M. Vázquez, J. González, V. S. Larin y A.V. Torcunov, "Glass-coated amorphous microwires as the element of magnetic sensors based on magnetic bistability and GMI effect and material for the radiation protection" Patent No P200202248
6. A. Zhukov, V. Zhukova, J. González, V. S. Larin y A.V. Torcunov "Ultra-fine glass-coated microwires with GMI effect at elevated frequencies". PCT Es/2006/000434 DATE 18.07.2006
7. S. Gudoshnikov, B. Lubimov, N. Usov, A. Zhukov, M. Ipatov and J. Gonzalez. "Set-up for measurements of properties of ferromagnetic microwires", Russian patent 68713 (2007) DATE 06.07.2007
8. P.N. Chernyh, V.I. Osedlov, V.V. Rodionova, A.P. Zhukov, V.A. Zhukova, L.B. Yavich, "Desing of the carbon containing microsensor for determination of the Dopamin concentration at durable implantation in the brain of mammals" Russian patent 2013114200/14, Application date 29.03.2013, published 10.10.2013
9. A. Zhukov, V. Zhukova, J. González, V. S. Larin y A.V. Torcunov "Ultra-thin glass-coated microwires with GMI effect at elevated frequencies". European patent EP 2 148 338 A1, Date of Application 27.01.2010, published In European Patent Bulletin 17/10 of 08.03.2017

List of publications

I. Editorial

1. **Member of the Editorial board** of the International journal "**The Open Physical Chemistry Journal, Open Physical Chemistry Letters and Open Physical Chemistry Reviews**" (Editorial - Bentham Science Publishers)
2. **Member of the Editorial board** of the International journal "**Open Materials Science Journal**" (Editorial - Bentham Science Publishers)
3. **Member of the Editorial board** of the journal "**Journal of Functional Materials**" (Editorial – Science and Technology – in Russian)"
4. Lead Guest Editor for the special issue of the **Physics Research International** (Hindawi Publishing Corporation) **2011**
5. Associate Editor of the *IEEE Magnetism Letters (IML)* since 2014
6. Associate Editor of the *International Journal on Smart Sensing and Intelligent Systems* since 2014
7. **GUEST EDITOR** of the special issue of Phys. Status Solidi A with Proceedings of the INTERNATIONAL WORKSHOP ON MAGNETIC WIRES 2008 "(Zumaia, Mayo 2008) Phys. Status Solidi A 206, No. 4, (2009)
8. **Editorial board member** of the International Journal of Advanced Applied Physics Research (<http://www.cosmoscholars.com/journals/international-journal-of-advanced-applied-physics-research>)
10. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY (Special issue devoted to nanomagnetism), Guest Editors O. Chubykalo-Fesenko, J. Gonzalez, B.

Hernando, and A. Zhukov, Volume: 8 Issue: 6 Pages: 2729-2729 Published: JUN 2008

11. Lead Guest Editor for the special issue of the **Crystals**-Topic in "Advance in Crystalline Thin Wires" (<http://www.mdpi.com/journal/crystals>) **2016**
12. GUEST EDITOR of **Physica B**. with the Proceedings of Symposium "*Recent Research on Novel Magnetic Structures and Their Applications*" B Physica B 299 (2001).
13. GUEST EDITOR of **J. Magn. Magn. Mater . with the Proceedings of the International Symposium "INTERNATIONAL WORKSHOP ON MAGNETIC WIRES " (San Sebastián, June 2001) J.Magn. Magn. Mater 249, 1-2, (2002)**
14. GUEST EDITOR of Journal of Magnetism and Magnetic Materials 316 (2007) containing proceedings of the Joint European Magnetic symposium (San Sebastián, June 2006, 750 participants)
15. GUEST EDITOR of Physica Status Solidi C containing proceedings of Donostia International Conference on Nanoscaled Magnetism and Applications, DICNMA, (San Sebastián, September 2013, 300 participants)
16. GUEST EDITOR of Special Issue "Advance in Crystalline Thin Wires" in Crystals (ISSN 2073-4352), an open access journal that covers all aspects of crystalline material research (IF =2.075).

II. BOOKS

1. A. Zhukov and V. Zhukova, «Magnetic properties and applications of ferromagnetic microwires with amorphous and nanocrystalline structure», Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY 11788, 162 p. 2009, ISBN: 978-1-60741-770-5.
2. A. Zhukov and V. Zhukova, "Magnetic sensors based on thin magnetically soft wires with tuneable magnetic properties and its applications", International Frequency Sensor Association (IFSA) Publishing, Ronda de Ramon Otero Pedrayo, 42C, 1-5, 08860, Castelldefels (Barcelona), Spain, 2014, ISBN-10: 84-617-1866-6
3. Novel Functional Magnetic Materials, Fundamentals and Applications (editor A. Zhukov), Springer Series in Materials Science, vol 231, Springer International Publishing, 2016, ISSN 0933-033X, DOI: 10.1007/978-3-319-26106-5
4. High Performance Soft Magnetic Materials (editor A. Zhukov), Springer Series in Materials Science, vol 252, Springer International Publishing, 2017, Page numbers: 216p, ISBN: 0933-033X, DOI: 10.1007/978-3-319-49707-5

III. BOOK CHAPTERS

1. A. Zhukov and J. Gonzalez, "Amorphous and Nanocrystalline Soft Magnetic Materials", in *Advanced Magnetic Materials, book 3 "Processing of advanced magnetic materials."* Edited by Y. Liu, D.J. Sellmyer and D. Shindo, (Kluwer Academic Publishers, Norwell, MA, USA, 2004) Vol.3, Chapter 5, p. 115-181. (ISBN: 1-4020-7983-4)

2. A. Zhukov, J. González, M. Vázquez, V. Larin and A. Torcunov, CHAPTER TITLE: *Nanocrystalline and Amorphous Magnetic Microwires*, BOOK: *Encyclopedia of Nanoscience and Nanotechnology*, PUBLISHER: American Scientific Publishers Web page: www.aspbs.com) Vol. 6 (2004) p.365-387
3. J. González and A. Zhukov, “Amorphous magnetic materials for sensors”, BOOK: *Encyclopedia of Sensors*, PUBLISHER: American Scientific Publishers Vol.1 (2006) p.79-103, ISBN: 1-58883-056-X, Edited by C. A. Grimes, E. C. Dickey, and M. V. Pishko
4. Advanced Magnetic Materials for Technological Applications, 2008: ISBN: 978-81-7895-367-0 Editors: Arcady Zhukov and Julian Gonzalez, Transworld Research Network
5. R. Varga, A. Zhukov, V. Zhukova, J.M. Blanco, Y. Kostyk, J. Torrejon, K. Garcia, M. Vazquez and J. Gonzalez , Single domain wall dynamics in magnetic microwires in Advanced Magnetic Materials for Technological Applications, 2008: ISBN: 978-81-7895-367-0 Editors: Arcady Zhukov and Julian Gonzalez, Transworld Research Network
6. A. Zhukov, J. M. Blanco, J. González and V. Zhukova, Chapter ”MAGNETIC PROPERTIES OF GLASS-COATED MICROWIRES WITH NANOCRYSTALLINE STRUCTURE”, book: “Magnetic Materials: Research, Technology”, ISBN: 978-1-60692-145-6 Editor: Jacob I. Levine, © 2009 Nova Science Publishers, Inc., Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY 11788, pp. 237-264
7. J. González and A. Zhukov, “Surface and Bulk Magnetism of Materials with Amorphous and Nanostructure Character”, *Nanoclusters and Nanostructured Surfaces* Edited by Asok K. Ray Pages: 1–45, chapter 9, 2010, American Scientific Publishers, ISBN: 1-58883-182-5
8. A. Zhukov, A. Chizhik, J. J. del Val, J. M. Blanco, V. Zhukova, “Nanocrystalline Structure in Amorphous Magnetic Wires, Glass Covered Microwires and Ribbons”, *Nanoclusters and Nanostructured Surfaces* Edited by Asok K. Ray Pages: 1–35, chapter 1, 2010, American Scientific Publishers, ISBN: 1-58883-182-5
9. N. Iturriza, J.J. del Val, A. Zhukov, I. García, J. A. Pomposo and J. González “Novel Amorphous and Nanocrystalline Soft Magnetic Materials” in *Amorphous Materials: Research, Technology and Applications*, Ed. Jacob I. Levine, (NOVA Science Publishers, New York, 2009) Vol.3, Chapter 5, p. 84-139) (ISBN: 978-1-60692-235-4)
10. L. Panina, M. Ipatov, V. Zhukova , J. Gonzalez and A. Zhukov, “Tuneable composites containing magnetic microwires”, chapter 22, pp.431-460 DOI: 10.5772/21423 in Book: Metal, ceramic and polymeric composites for various uses, Edited by John Cuppoletti, 2011, DOI: 10.5772/1428 ISBN: 978-953-307-353-8 (ISBN

978-953-307-1098-3) InTech - Open Access Publisher (www.intechweb.org), Janeza Trdine, 9, 51000 Rijeka, Croatia,

11. A. Chizhik, A. Stupakiewicz, V. Zablotskii, A. Zhukov, A. Maziewski and J. Gonzalez “Hysteretic Properties of Magnetic Composite Microwires ” in **Hysteresis: Types, Applications and Behavior Patterns in Complex Systems**, Ed. José Carlos Dias, chapter 3, **Series:** Materials Science and Technologies, (NOVA Science Publishers, New York, 2014) **ISBN:** 978-1-63321-336-4, pp. 43-58

12. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, V. Zhukova “Tailoring of Magnetic Properties and GMI Effect of Amorphous Microwires by Annealing”, in “Sensing Technology: Current Status and Future Trends III Smart Sensors, Measurement and Instrumentation” Editors Alex Mason, Subhas Chandra Mukhopadhyay and Krishanthi Padmarani Jayasundera, Volume 11, 2015, pp 399-423, **DOI:** 10.1007/978-3-319-10948-0_20, **Print ISBN** 978-3-319-10947-3, **Online ISBN** 978-3-319-10948-0, Series ISSN 2194-8402, Publisher : Springer International Publishing

13. L. González-Legarreta, A. Talaat, M. Ipatov, V. Zhukova, A. Zhukov, J. González, and B. Hernando, Magnetotransport at High Frequency of Soft Magnetic Amorphous Ribbons in Sensing Technology: Current Status and Future Trends IV Smart Sensors, Measurement and Instrumentation Volume 12, 2015, pp 235-251, Editors Alex Mason, Subhas Chandra Mukhopadhyay and Krishanthi Padmarani Jayasundera, Print ISBN 978-3-319-12897-9 Online ISBN 978-3-319-12898-6, DOI 10.1007/978-3-319-12898-6_12, Publisher : Springer International Publishing

14. A. Zhukov, M. Ipatov and V. Zhukova, Advances in Giant Magnetoimpedance of Materials, *Handbook of Magnetic Materials*, ed. K.H.J. Buschow, Volume 24 chapter2, pp 139-236 (2015) <http://dx.doi.org/10.1016/bs.hmm.2015.09.001>

15. A. Zhukov, M. Ipatov, V. Zhukova, Processing magnetic microwires for magnetic bistability and magnetoimpedance”, ch.8 pp 225-274 in Magnetic Nano- and Microwires: Design, Synthesis, Properties and Applications in, Editor : Manuel Vázquez, Woodhead Publishing Series in Electronic and Optical Materials, Cambridge, UK : Woodhead Publishing, 2015, ISBN 0081001819, 9780081001813

16. A. Zhukov, A. Talaat, M. Ipatov, J.J. del Val, L. Gonzalez-Legarreta, B. Hernando and V. Zhukova, “Giant Magnetoimpedance Effect of Amorphous and

Nanocrystalline Glass-Coated Microwires” in “Next Generation Sensors and Systems, Smart Sensors, Measurement and Instrumentation 16” , S.C. Mukhopadhyay (ed.), Springer International Publishing Switzerland 2016, pp.103-130, ISSN 2194-8402 ISSN 2194-8410 (electronic), DOI 10.1007/978-3-319-21671-3_5

17. A. Zhukov, M. Ipatov, J.J. del Val, M. Ilyn, A. Granovsky and V. Zhukova, “Magnetic and Transport Properties of M-Cu (M = Co, Fe) Microwires”, in “Next Generation Sensors and Systems, Smart Sensors, Measurement and Instrumentation 16” , S.C. Mukhopadhyay (ed.), Springer International Publishing Switzerland 2016, pp.81-102, ISSN 2194-8402 ISSN 2194-8410 (electronic), DOI 10.1007/978-3-319-21671-3_4

18. I. Dubenko, N. Ali, S. Stadler, A. Zhukov, V. Zhukova, B. Hernando, V. Prida, V. Prudnikov, E. Ganshina, and A. Granovsky, “Magnetic, Magnetocaloric, Magnetotransport, and Magneto-optical Properties of Ni–Mn–In-Based Heusler Alloys: Bulk, Ribbons, and Microwires” in Novel Functional Magnetic Materials, Fundamentals and Applications (editor A. Zhukov), Springer Series in Materials Science, vol 231, Springer International Publishing Switzerland, 2016, chapter 2, pp.41-82, ISSN 0933-033X

19. Yang Luo, Faxiang Qin, Fabrizio Scarpa, Mihail Ipatov, Arkady Zhukov, and Hua-Xin Peng, “Tuneable Metacomposites Based on Functional Fillers” in Novel Functional Magnetic Materials, Fundamentals and Applications (editor A. Zhukov), Springer Series in Materials Science, vol 231, Springer International Publishing, 2016, chapter 8, pp.311-356, ISSN 0933-033X

20. V. Zhukova, M. Ipatov, A. Talaat, J.M. Blanco, and A. Zhukov,” Amorphous and Nanocrystalline Glass-Coated Wires: Optimization of Soft Magnetic Properties” in High Performance Soft Magnetic Materials (editor A. Zhukov), Springer Series in Materials Science, vol 252, Springer International Publishing, 2017, pp-1-32, ISBN: 0933-033X, DOI: 10.1007/978-3-319-49707-5

21. L. González-Legarreta, V.M. Prida, A. Talaat, M. Ipatov, V. Zhukova, A. Zhukov, LI. Escoda, J.J. Suñol, J. González, and B. Hernando, “Tailoring of soft magnetic properties and high frequency giant magnetoimpedance in amorphous ribbons” in High Performance Soft Magnetic Materials (editor A. Zhukov), Springer

Series in Materials Science, vol 252, Springer International Publishing, 2017, pp. 33-52, ISBN: 0933-033X, DOI: 10.1007/978-3-319-49707-5

IV. SCIENTIFIC JOURNALS

INVITED PAPERS:

1. M. Vázquez, A. Zhukov, Magnetic properties of glass coated amorphous and nanocrystalline microwires, J. Magn. Magn. Mater. 160 (1996) 223-228, doi: [10.1016/0304-8853\(96\)00212-0](https://doi.org/10.1016/0304-8853(96)00212-0)
2. M. Vázquez, M. Knobel, M.L. Sánchez, R. Valenzuela and A. Zhukov, Giant magnetoimpedance effect in soft magnetic wires for sensor applications, Sensors and Actuators A 59 (1997) 20-29, doi: [10.1016/S0924-4247\(97\)80143-4](https://doi.org/10.1016/S0924-4247(97)80143-4)
3. M. Vázquez, P. Marin, A. Hernando, A. Zhukov and J. Gonzalez, Influence of nanocrystalline structure on the magnetic properties of wires and microwires, Textures and Microstructures v.32, N°1-4, (1999) pp.245-268.
4. J. Gonzalez, V. Zhukova, A. P. Zhukov, J. J. Del Val, J.M. Blanco, E. Pina and M. Vázquez, Magnetic and Structural Features of Glass-Coated Cu-based (Co,Fe,Ni – Cu) Microwires, J. Magn and Magn, Mater. 221 (2000) 196-206.
5. J. Gonzalez, A. P. Zhukov, J.M. Blanco and M. Vazquez, “Magnetic Properties of nearly-zero magnetostriction glass-coated amorphous microwires”, Proceedings of Moscow International Symposium on Magnetism, Eds. A. Granovsky and N. Perov, Moscow 1999, pp. 249-258.
6. M. Vázquez, J.M. García –Beneytez, J.M. García, J.P. Sinnecker and A. Zhukov, “Giant magneto-impedance in heterogeneous microwires”, Proceedings of Moscow International Symposium on Magnetism, Eds. A. Granovsky and N. Perov, Moscow 1999, pp. 259-266.
7. J. González, A.P. Chen, J.M. Blanco and A. Zhukov. Effect of the applied mechanical stresses on the impedance response in amorphous microwires with vanishing magnetostriction, Phys. Stat. Sol 189 (2002) 599-608.
8. A. Zhukov, Glass – coated magnetic microwires for technical applications, J. Magn and Magn. Mater 242-245 (2002) 216-223, doi: [doi.org/10.1016/S0304-8853\(01\)01258-6](https://doi.org/10.1016/S0304-8853(01)01258-6).
9. A. Zhukov, V. Zhukova, J. M. Blanco, A. F.Cobeño, M.Vazquez and J Gonzalez Magnetostriction in glass-coated magnetic microwires, J. Magn and Magn, Mater 258-259 (2003)151-157

10. J. González, A. Chizhik, A. Zhukov and J.M. Blanco, "Surface magnetic behavior of nearly-zero magnetostrictive Co-rich amorphous microwires" *J. Magn. and Magn., Mater* 258-259 (2003) 177-182.
11. M. Vázquez, K.L. García, K A.P. Zhukov, R. Varga, P. Vojtanik, "Temperature dependence of switching field and its distribution in bistable magnetic microwires" *Journal of Optoelectronics and Advanced Materials*, vol.6, No 2, (2004) p.581-586
12. A. Zhukov, J. Gonzalez and V. Zhukova, "Magnetoresistance in thin wires with granular structure", *J. Magn. and Magn., Mater.* 294 (2005) 165-173
13. A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez "Recent research on magnetic properties of glass-coated microwires", *J. Magn. and Magn., Mater.* 294 (2005) 182-192
14. V. Zhukova, M. Ipatov, A. Zhukov, R. Varga, A. Torcunov, J. Gonzalez and J.M. Blanco, "Studies of magnetic properties of thin microwires with low Curie temperatures", *J. Magn. and Magn., Mater.* 300 (2006) 16-23
15. G. Herzer, M. Vazquez, M. Knobel, A. Zhukov, T. Reininger, H.A. Davies and R. Grössinger, "Round table discussion: present and future application of nanocrystalline materials", *J. Magn. and Magn., Mater.*, 294 (2005) 252-266
16. C. Garcia, A. Chizhik, J.J. del Val, A. Zhukov, J.M. Blanco and J. Gonzalez, "Structural, Magnetic and Electrical Transport Properties in Cold-Drawn Thin Fe-rich Wires", *J. Magn. and Magn., Mater.*, 294 (2005) 193-201
17. C. Miguel, A.P. Zhukov J.J. Del Val and J. González, "Coercivity and Induced Magnetic Anisotropy by stress and/or field annealing in Fe- and Co-based amorphous Alloys", *J. Magn. and Magn., Mater.*, 294 (2005) 245-251
18. C. García, A. Zhukov, J. Gonzalez, V. Zhukova and J. M. Blanco, "High-frequency GMI effect in different families of thin amorphous wires, *Trans. Magn. Soc. Jpn.* vol.5 No 4, 148-151 (2005)
19. R. Varga, A. Zhukov, J. M. Blanco, J. Gonzalez , V. Zhukova and P. Vojtanik, "Magnetization processes in thin magnetic wires", *J. Magn. Magn. Mater.* 300 (2006), e305-e-310.
20. A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez, "Giant magneto-impedance effect in thin amorphous wires for sensor applications.", *The Physics of Metals and Metallography* 99, Suppl.1., 2005, s57-s61

21. H. Lachowicz, M. Kuzminski, K.L. García, A. Zhukov and M. Vázquez, A. Krzyzewski, "Influence of Alternative circular magnetic field strength on magnetoimpedance of glass-coated micro-wire", *J. Magn. Magn. Mater.* 300 (2006), e88-e-92.
22. C. Garcia, A. Zhukov, M. Ipatov, V. Zhukova, J.J. del Val, L. Domínguez, J.M. Blanco, V. Larin and J. González "Soft Magnetic Behaviour of Nanocrystalline Fe-Based Glass-Coated Microwires", *Journal of Optoelectronics and Advanced Materials*, vol.8, No 5, (2006) pp.1667-1671
23. B. Hernando, J. Olivera, J.D. Santos, M.L. Sánchez, P. Gorría, C. Garcia, J.M. Blanco, A. Zhukov, J.L. Sánchez Ll, "High frequency magnetoimpedance in amorphous and nanostructured $\text{Fe}_{73.5}\text{Si}_{13.5}\text{B}_9\text{Cu}_1\text{Nb}_3$ wires", *J. Magn. Magn. Mater.* 300 (2006), 24-28.
24. A. Zhukov, M. Ipatov, C. García, J. Gonzalez, J. M. Blanco and V. Zhukova, Magnetic Properties and High-Frequency GMI Effect in Thin Glass-Coated Amorphous Wires , *AIP Conf. Proc.* 1003 (2008) 280-286
25. D. Makhnovskiy, A. Zhukov, V. Zhukova, J. Gonzalez, "Tunable and self-sensing microwave composite materials incorporating ferromagnetic microwires" *Advances in Science and Technology Vol. 54 (2008) pp 201-210*
26. L V. Panina , D.P. Makhnovskiy, A. Zhukov and J. Gonzalez, "Multilayered Magnetic Wires and Films for Electromagnetic Sensor Technology" *Advances in Science and Technology Vol. 54 (2008) pp 29-40*
27. A.Zhukov, M.Ipatov, J.Gonzalez, J.M.Blanco, V.Zhukova, Recent advances in studies of magnetically soft amorphous microwires, *J. Magn. Magn. Mater.* 321 (2009) 822–825
28. M. Ipatov, V. Zhukova, L. V. Panina, and A. Zhukov "Ferromagnetic Microwires Composite Metamaterials with Tuneable Microwave Electromagnetic Parameters" (invited paper), *Proceedings of Conference Progress In Electromagnetics Research Symposium Proceedings, Moscow, Russia, August 18-21, 2009 pp. 1657-1661*
29. V. Zhukova, M. Ipatov and A Zhukov, "Thin Magnetically Soft Wires for Magnetic Microsensors" (*Review*) *Sensors* 9(2009) pp. 9216-9240
30. L. V. Panina, M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, "Microwave Metamaterials With Ferromagnetic Microwires", *Proceedings of META'10*,

International Conference on Metamaterials, Photonic crystals and Plasmonics, Edited by Saïd Zouhdi, University Paris-Sud, France, January 18th, 2010 pp.248-254

31. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, N. Perov, J. Gonzalez and A. Zhukov, “Tailoring of Magnetic Properties of Magnetostatically-Coupled Glass-Covered Magnetic Microwires”, *J Supercond Nov Magn* vol. 24 No 1-2 (2011) pp. 541–547, DOI 10.1007/s10948-010-0989-0

32. M. Vazquez, H. Chiriac, A. Zhukov, L. Panina and T. Uchiyama, “On the state-of-the-art in magnetic microwires and expected trends for scientific and technological studies” *Phys. Status Solidi A*, A 208, No. 3, (2011) 493–501 / DOI 10.1002/pssa.201026488

33. A. Zhukov, M. Ipatov and V. Zhukova, “Development of magnetically soft microwires with GMI effect”, *Journal of Physics: Conference Series* 303 (2011) 012085 (doi:10.1088/1742-6596/303/1/012085)

34. J. Gonzalez, A. Chizhik, A. Zhukov and J. M. Blanco, “Surface magnetization reversal and magnetic domain structure in amorphous microwires”, *Phys. Status Solidi A* 208, No. 3, 502–508 (2011)/ DOI 10.1002/pssa.201026332

35. A. Zhukov, M. Ipatov and V. Zhukova, “Amorphous microwires with enhanced magnetic softness and GMI characteristics”, *EPJ Web of Conferences* 29 00052 (2012), DOI: 10.1051/epjconf/20122900052

36. A. Zhukov, C. Garcia, M. Ilyn, R.Varga, J. J. del Val, A. Granovsky, V. Rodionova, M. Ipatov, V. Zhukova, “Magnetic and transport properties of granular and Heusler-type glass-coated microwires”, *J. Magn. Magn. Mater.* 324 (2012) 3558–3562

37. A. Zhukov, M. Ipatov, M. Churyukanova, S. Kaloshkin, V. Zhukova, “Giant magnetoimpedance in thin amorphous wires: From manipulation of magnetic field dependence to industrial applications”, *J. Alloys Comp.* 586 (2014) S279–S286, <http://dx.doi.org/10.1016/j.jallcom.2012.10.082>

38. A. Zhukov · M. Ipatov · C. Garcia · M. Churyukanova · S. Kaloshkin · V. Zhukova, “From Manipulation of Giant Magnetoimpedance in Thin Wires to Industrial Applications”, *J Supercond Nov Magn* Volume: 26 Issue: 4 (2013) Special Issue: SI Pages: 1045-1054 DOI: 10.1007/s10948-012-1962-x

39. A. Zhukov, J. M. Blanco, M. Ipatov, and V. Zhukova “Fast magnetization switching in thin wires: Magnetoelastic and defects contributions”, *Sensor Letters* 11 (1) (2013), pp. 170-176, DOI: 10.1166/sl.2013.2771

40. S. Gudoshnikov, N. Usov, A.Nozdryn, M. Ipatov, A. Zhukov, and V. Zhukova, “Highly sensitive magnetometer based on the off-diagonal GMI effect in Co-rich

- glass-coated microwire”, *Phys. Stat. Sol. (a)*, 211, No. 5, 2014, pp. 980–985, DOI 10.1002/pssa.201300717
41. S. Kaloshkin, A. Talaat, M. Ipatov, V. Zhukova, J. M. Blanco, M.Churyukanova, K. Chichay, and A. Zhukov, “Correlation between the magnetostriction constant and thermal properties of soft magnetic microwires”, *Phys. Stat. Sol. (a)*, 211, No. 5, 2014, pp. 1083–1086 / DOI 10.1002/pssa.201300723
42. A. P. Zhukov, A. Talaat, M. Ipatov, J. M. Blanco, L. Gonzalez-Legarreta, B. Hernando, and V. Zhukova, “Effect of Nanocrystallization on Magnetic Properties and GMI Effect of Microwires”, *IEEE Trans. Magn.*, VOL. 50, NO. 6, JUNE 2014, 2501905, DOI: 10.1109/TMAG.2014.2303396
43. A. Zhukov, M. Ipatov, J.M. Blanco, A. Chizhik, A. Talaat, V. Zhukova “Fast Magnetization Switching in Amorphous Microwires”, *ACTA PHYSICA POLONICA A*, Vol. 126 (2014) pp.7-11, DOI: 10.12693/APhysPolA.126.7
44. A. Zhukov, A. Talaat, J. M. Blanco, M. Ipatov and V. Zhukova” Tuning of magnetic properties and GMI effect of Co-based amorphous microwires by annealing”, *Journal of ELECTRONIC MATERIALS*, Vol. 43, No. 12 (2014) pp. 4532-4539, DOI: 10.1007/s11664-014-3348-2
45. A. Zhukov, A. Talaat, M. Ipatov, J. J. del Val, L. Gonzalez-Legarreta, B. Hernando, A. Chizhik, J. M. Blanco, V. Zhukova, “Optimization of Magnetic Properties and Giant Magnetoimpedance Effect in Nanocrystalline Microwires”, *J Supercond Nov Magn* 28, N3, (2015)813–822 DOI: 10.1007/s10948-014-2654-5
46. A.Zhukov, K.Chichay, A.Talaat, V.Rodionova, J.M.Blanco, M.Ipatov, V. Zhukova, “Manipulation of magnetic properties of glass-coated microwires by annealing”, *J. Magn. Mater.* 383 (2015) 232–236 <http://dx.doi.org/10.1016/j.jmmm.2014.10.003>
47. V.Rodionova, K. Chichay, V. Zhukova, N. Perov, M. Ipatov, P. Umnov, V. Molokanov, A. Zhukov, “Tailoring of Magnetic Properties of Amorphous Ferromagnetic Microwires”, *J Supercond Nov Magn* 28, No 3, (2015) pp. 977-981, DOI: 10.1007/s10948-014-2777-8
48. A. Zhukov, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, S. Gudoshnikov, M. Ipatov, A. Talaat, J.M. Blanco and V. Zhukova, “ Magnetostriction of Co-Fe-based amorphous soft magnetic microwires”, *J. Electr. Mater.* (2016), V.45, **Issue 1**, pp 226-234, DOI: 10.1007/s11664-015-4011-2
49. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, V. Zhukova, “Engineering of magnetic properties of amorphous and nanocrystalline microwires”, *ProScience 2 (2015) 89-104*, 1st International Conference on Applied Mineralogy & Advanced Materials - AMAM2015 Conference proceedings, DOI:10.14644/amam.2015.016
50. J. Mino, V.Zhukova, J. J. del Val, M. Ipatov, A. Martinez-Amesti. R. Varga and A.Zhukov, “Engineering of the GMR Effect in CuCo Microwire with Granular Structure”, *J. ELECTRONIC MATERIALS* 45, Issue 5 (2016) pp 2401-2406 Doi: 10.1007/s11664-016-4351-6

51. A. Talaat, V. Zhukova, M. Ipatov, J. J. del Val, J. M. Blanco, L. Gonzalez-Legarreta, B. Hernando, M. Churyukanova and A. Zhukov, Engineering of Magnetic Softness and Magnetoimpedance in Fe-Rich Microwires by Nanocrystallization, JOM, 68(6) (2016) 1563-1571, DOI: 10.1007/s11837-016-1889-y
52. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, A. Granovsky and V. Zhukova, “Engineering of Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline Microwires”, J Supercond Nov Magn, 2017, Volume 30, Issue 5, pp 1359–1366, DOI 10.1007/s10948-016-3645-5
53. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, B. Hernando, L. Gonzalez-Legarreta, J. J. Suñol and V Zhukova, “Correlation of Crystalline Structure with Magnetic and Transport Properties of Glass-Coated Microwires”, Crystals Vol. 7, p. 41, 2017., doi:10.3390/cryst7020041
54. A. Zhukov, J.M. Blanco, M. Ipatov, A. Talaat, V. Zhukova, “Engineering of domain wall dynamics in amorphous microwires by annealing”, J. Alloys Compounds, Volume 707, 15 (2017), p. 35–40, <http://dx.doi.org/10.1016/j.jallcom.2016.09.072>
0925-8388
55. A. Zhukov, M. Ipatov, M. Churyukanova, A. Talaat, J.M. Blanco and V. Zhukova, Trends in optimization of giant magnetoimpedance effect in amorphous and nanocrystalline materials (Review paper), J. Alloys Compound. 727 (2017) 887-901 DOI: 10.1016/j.jallcom.2017.08.119
56. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco and V. Zhukova, Engineering of magnetic properties of Co- and Fe-rich microwires, IEEE Trans. Magn., 54 (6) (2018) 2000707 DOI: 10.1109/TMAG.2018.2813925
57. A. Zhukov, M. Ipatov, J. M. Blanco, P. Corte- León, J. Olivera, J. Gonzalez and V. Zhukova Engineering of Magnetic Properties of Magnetic Microwires, ACTA PHYSICA POLONICA A, Vol. 133, No. 4 (2018) pp.321-328, DOI: 10.12693/APhysPolA.133.321
58. A Zhukov, P. Corte-León, L. González-Legarreta, M. Ipatov, A. Talaat, J. M. Blanco, J. Gonzalez, V. Zhukova, “Magnetic microwires for sensor applications”, Advanced Materials Letters, 10(5) (2019) 305-311

REGULAR CONTRIBUTIONS

59. B.K. Ponomarev, A.P. Zhukov, Start field fluctuations in amorphous Co₇₀Fe₅Si₁₀B₁₅ alloy, Sov. Phys. Solid state, 1984, 26, No 10, 2974-2979.

60. A. P. Zhukov and B.K. Ponomarev, Effect of temperature on the start field distribution of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloy, *Sov. Phys. Solid state*, 1985, 27, No2, 444-448.
61. B.K. Ponomarev, A. P. Zhukov, Influence of temperature on the process of magnetization reversal of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloys, *Acta Phys. Polonica*, 1985, A28, No 2, 259-263.
62. G.S. Krinchik, E.E. Chepurova, B.K.Ponomarev, O.P. Akhmatova and A. P. Zhukov, Reversal magnetization region in amorphous Co₇₀Fe₅Si₁₀B₁₅ alloys, *Sov. Phys. Solid State*, 1986, 28, No 9, 2862-2865.
63. G.S. Krinchik, E.E. Chepurova, B.K. Ponomarev, O.P. Akhmatova and A. P. Zhukov, Experimental investigations of reversal magnetization region in amorphous Co₇₀Fe₅Si₁₀B₁₅ alloys, *Izvestia Vuzov, Physica(sov)*, 1988, No 3, 89-94.
64. A. P. Zhukov, B.K. Ponomarev, Dependence of start field of amorphous Co- and Fe-rich alloys on frequency and magnetic field amplitude, *Sov. Phys. Solid State*, 1989, 31, No 7, 26-30.
65. G.E. Abrosimova , A. P. Zhukov, B.K. Ponomarev, Effect of heat treatment on some properties of Fe- and Co-based amorphous alloys, *Phys. Stat. Sol.(a)* 111, (1989) k237-k241.
66. A.P. Zhukov, B.K. Ponomarev, Start field distribution in bistable amorphous ribbon, *Phys. Stat. Sol (a)* 1989, 112, k127-k130.
67. A.P. Zhukov, Matteucci effect in amorphous alloys, *Materialovedenie i termooobrabotka (sov)*, 1992, No 9, 30-32.
68. A.P. Zhukov, B.L. Shtangeev, Cooling induced phase transition in amorphous Co-Cr-Zr alloy, *J. Appl. Phys.* , 1993, 73 (10), 5716-5717.
69. A.P. Zhukov, Matteucci effect in amorphous alloys, *Zhurnal tehnikeskoi Fiziki (sov)* 1993 , 63, No 11, 182-186.
70. A. P. Zhukov, S.A. Ivanov, M.A. Nudelman, B.K. Ponomarev, S.D. Kaloshkin and A.A. Shatov, Magnetic properties of Cr and Mn powders, *J. Appl. Phys.* 1993, 73 (10), 6414.
71. A.P. Zhukov, The remagnetization process of bistable amorphous alloys, *Materials and Design*, 1993, No 5, 299-305, doi: [https://doi.org/10.1016/0261-3069\(93\)90130-N](https://doi.org/10.1016/0261-3069(93)90130-N)
72. B.K. Ponomarev, Y.F. Popov, V.D. Negrii, A.P. Zhukov, B.S. Redkin, "The magnetoelectric effect in some rare-earth molybdates and related anomalies in magnetic, magnetoelastic, and optical-properties" *KRISTALLOGRAFIYA*, 1994, Vol.39, No.3, pp.495-500
73. B.K.Ponomarev, S.A.Ivanov, V.D.Negrii, A.P.Zhukov, B.S.Red`kin, V.N.Kurlov, A.K.Zvezdin, Yu.F.Popov, "Giant magnetic anisotropy in paramagnetic Tb₂(MoO₄)₃", *Ferroelectrics*, 151 (1994) 103-108.
74. A. P. Zhukov, M. Vázquez, J. Velázquez, H. Chiriac and V. Larin, The remagnetization process of thin and ultrathin Fe-rich amorphous wires, *J. Magn and Magn, Mater* 1995, 151, 132-138.
75. A. Zhukov, C. Gómez-Polo, P. Crespo and M. Vázquez, Axial and transverse magnetization processes of glass-coated amorphous microwires, *J. Magn and Magn, Mater* 157/158 (1996) 143-144 (0)
76. A. Zhukov, M. Vázquez, J. Velázquez, A. Hernando and V. Larin, Magnetic properties of Fe-based glass-coated microwires, *J. Magn. Magn. Mat.* 170 (1997) 323-330.
77. J. Velázquez, M. Vazquez and A. Zhukov, Magnetoelastic anisotropy distribution in glass-coated microwires, *J. Mater. Res.* V.11 No10 (1996) 2499-2505.

78. J. Arcas, C. Gómez-Polo, A. Zhukov, M. Vázquez, V. Larin and A. Hernando, Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires, *Nanostructured Materials* V.7 No 8 (1996) 823-834.
79. M. Vázquez, A. Zhukov, P. Aragonese, J. Arcas, P. Marin and A. Hernando, Magneto-impedance of glass-coated amorphous CoMnSiB microwires, *IEEE Trans Magn.* 34 No 3 (1998) 724-728 (cit 33).
80. A. Zhukov, M. Vázquez, J. Velázquez, C. Garcia, R. Valenzuela and B. Ponomarev, Frequency dependence of coercivity in rapidly quenched amorphous materials, *J. Mat. Sci. Eng. A* 226-228 (1997) 753-756 .
81. E.H.C.P. Sinnecker, J.P. Sinnecker, A. Zhukov, J. M. Garcia-Beneytez, M.J. Garcia Prieto and M. Vázquez, Giant magnetoimpedance in glass covered microwires, *J. De Physique IV* 8 (1998) Pr2-225-228.
82. H. Chiriac, Ch. Pop, T.A. Óvári, F. Barariu, M. Vázquez and A.P. Zhukov, Effect of Mn, Sn and Cr additions on the magnetic properties of the amorphous glass-covered wires from the Fe-Si-B system, *IEEE Trans. Magn.* Vol.33 No.5 (1997) 3346-3348.
83. A. Zhukov, J. M. Garcia-Beneytez and M. Vázquez, Magnetoelastic sensor for signature identification based on mechanomagnetic effect in amorphous wires *J. De Physique IV* 8 (1998) Pr2-763-Pr2-766
84. P. Aragonese, J. M. Blanco, K. Kulakowski, L. Dominguez, A. Zhukov and J. Gonzalez, Dynamic Coercive Field of Bistable Amorphous Wires, *J. Phys. D: Applied Phys.* 31 (1998) 494-497.
85. K. -Y. Wang, J. Arcas, V. Larin, J.L. Muñoz, A.P. Zhukov, D.-X. Chen, M. Vázquez and A. Hernando, Glass-coated Fe-Ni-Cu microwires with high coercivity, *Phys. Stat. Sol. A* 162 (1997) R5.
86. G. Kurlyandskaia, M. Vázquez, E. A. Sinnecker, A. P. Zhukov, J.P. Sinnecker, A. Hernando and M. El Ghannami, Influence of various heat treatments on Giant Magnetoimpedance effect in Nanocrystalline FeSiBNbCu ribbons, *Textures and Microstructures* 32, N° 1-4 (1999) 269-279.
87. J. M. Blanco, A. Zhukov and J. Gonzalez, Effect of tensile and torsion on GMI effect in amorphous wire, *J. Magn. Magn. Mat.* 196-197 (1999) 377-379.
88. J. Llumá, M. Vázquez, J.M. Hernandez, J.M. Ruiz, J.M. García-Beneytez, A. Zhukov, X.X. Zhang and J. Tejada, Low temperature magnetization and resistivity measurements in Co based soft magnetic microwires *J. Magn. Magn. Mat.* 196-197 (1999) 821-823.
89. P. Aragonese, J.M. Blanco, A.F. Cobeño, L. Dominguez, J. Gonzalez, A. Zhukov and V. Larin, Stress Dependence of the Switching Field in Co-rich Amorphous Microwires, *J. Magn. Magn. Mat.* 196-197 (1999) 248-250
90. P. Aragonese, A. Zhukov, J. Gonzalez, J.M. Blanco and L. Dominguez, Effect of AC driving current on Magneto-Impedance effect, *Sensors and Actuators A*, 81/1-3 (2000) 86-90
91. A. Zhukov, A.F. Cobeño, J. Gonzalez, J.M. Blanco, P. Aragonese and L. Dominguez Magnetoelastic sensor of level of the liquid based on magnetoelastic properties of Co-rich microwires, *Sensors and Actuators A* 81/1-3 (2000) 129-133
92. P. Aragonese, D. Holzer, H. Sassik, A. Zhukov, R. Grössinger and J. Gonzalez, Frequency dependence of GMI effect in nanocrystalline Fe₈₆Zr₇B₆Cu₁ ribbons, *J. Magn. Magn. Mat* 203 (1999) 292-294
93. A. Zhukov, J. Gonzalez, A. Torcunov , E. Pina, M.J Prieto, A. F. Cobeño, J.M. Blanco, V. Larin and S. Baranov, Ferromagnetic resonance and Structure of Fe-based Glass-coated Microwires, *J. Magn. Magn. Mat.* 203 (1999) 238-240.

94. M.J. Garcia Prieto, E. Pina, A.P. Zhukov, V. Larin, P. Marin, M. Vázquez and A. Hernando, Glass coated Co-rich Amorphous Microwires with Improved Permeability, *Sensors & Actuators A* 81/1-3 (2000) 227-231
95. E. H. C. P. Sinnecker, D. Páramo, V. Larin, A. Zhukov, M. Vázquez, A. Hernando and J. González, Glass coated microwires with enhanced coercivity, *J. Magn. Magn. Mat.* 203 (1999) 54-56.
96. P. Aragonese, J.M. Blanco, L. Dominguez, J. González, A. Zhukov and M. Vázquez, The Stress dependence of the switching field in glass-coated amorphous microwires, *J. Phys. D: Applied Phys.* 31 (1998) 3040-3045
97. A. Zhukov, E. Sinnecker, D. Paramo, F. Guerrero, V. Larin, J. González and M. Vázquez, Fabrication and magnetic properties of glass-coated microwires from immiscible elements, *J. Appl. Phys.* 85 (1999) 4482-4484
98. Hongbin Nie, Xixiang Zhang, A. B. Pakhomov, Zhong Xie, X. Yan, A. Zhukov and M. Vázquez, Giant magnetoimpedance of glass covered amorphous microwires Co-Mn-Si-B and Co-Si-B, *J. Appl. Phys.* 85 (1999), 4445-4447
99. A.F. Cobeño, J.M. Blanco, A. Zhukov, L. Dominguez, J. Gonzalez, A. Torcunov and P. Aragonese, Matteucci Effect in Glass Coated Microwires, *IEEE Trans. Magn.* 35 (1999) 3382-3384.
100. A. Zhukov, J. Gonzalez, J.M. Blanco, M.J. Prieto, E. Pina and M. Vazquez, Induced Magnetic Anisotropy in Co-Mn-Si-B Amorphous Microwires, *J. Appl. Phys.* 87 (2000) 1402-1408, doi: <https://doi.org/10.1063/1.372063>
101. J.M. Blanco, A. Zhukov and J. Gonzalez, "Torsional Stress Impedance and Magneto-impedance in (Co_{0.95}Fe_{0.05})_{72.5}Si_{12.5}B₁₅ Amorphous Wire with Helical Induced Anisotropy", *J. Phys. D: Appl. Phys.* 32 (1999) 3140-3145.
102. A.F. Cobeño, A. Zhukov, A.R. de Arellano - Lopez, F. Elías. J.M. Blanco, V. Larin and J. González, "Physical properties of nearly zero magnetostriction Co-rich glass-coated amorphous microwires" *J. Mater. Res.* 14 (1999) 3775-3783, doi: <https://doi.org/10.1088/0022-3727/32/24/308>
103. A.F. Cobeño, P. Aragonese, J.M. Blanco, L. Dominguez, A. Zhukov, V. Larin and J. González, "Stress Dependence of switching field in ultra-thin amorphous wires.", *Mat. Science Forum*, 302-303 (1999) 244-248
104. V. Zhukova, A.F. Cobeño, A. Zhukov, J.M. Blanco, V. Larin and J. Gonzalez, Coercivity of glass-coated Fe_{73.4-x}Cu₁Nb_{3.1}Si_{13.4+x}B_{9.1} (0≤x≤1.6) microwires, *Nanostructured Materials* 11, No.8, (1999) 1319-1327.
105. A. Zhukov, J. González, J.M. Blanco, M. Vázquez and V. Larin, Microwires coated by glass: a new family of soft and hard magnetic materials", *J. Mat. Res* 15, (2000), 2107-2113.
106. J.M. Blanco, A. Zhukov and J. Gonzalez, Asymmetric torsion stress giant magnetoimpedance in nearly-zero magnetostrictive amorphous wires, *J. Appl. Phys.* 87 No 9, (2000) 4813-4815
107. J. Gonzalez, A. P. Zhukov, J. M. Blanco, A. F. Cobeño, M. Vázquez and K. Kulakowski, Evaluation of the saturation magnetostriction in nearly-zero magnetostrictive glass-coated amorphous microwires, *J. Appl. Phys.* 87 No 9 (2000) 5950-5952. (cit 4)
108. V. Zhukova, A.F. Cobeño, A. Zhukov, A. R. de Arellano Lopez, S. López-Pombero, J.M. Blanco, V. Larin and J. Gonzalez, Correlation between magnetic and mechanical properties of devitrified glass-coated Fe_{71.8}Cu₁Nb_{3.1}Si₁₅B_{9.1} microwires, *J. Magn. Magn. Mat.* 249, P1-II (2002), 79-84

109. A.F. Cobeño, A. Zhukov, E. Pina, J.M. Blanco, J. Gonzalez and J.M. Barandiaran, Sensitive magnetoelastic properties of amorphous ribbon for magnetoelastic sensors, *J. Magn. Magn. Mater.*, 215-216 (2000) p.743-745
110. J. M. Blanco, A. Zhukov, A. F. Cobeño, A.P. Chen and J. Gonzalez, Effect of heat treatment on impedance behaviour in nearly-zero magnetostriction ($\text{Co}_{0.95}\text{Fe}_{0.05}\text{Si}_{72.5}\text{B}_{15}$ amorphous wire, *IEEE Trans. Magn.* 36, No 5 (2000) 2879-2881.
111. J. Gonzalez, A. Zhukov, V. Zhukova, A. F. Cobeño, J.M. Blanco, A.R. de Arellano-Lopez, S. Lopez-Pombero, J. Martinez-Fernandez, V. Larin and A. Torcunov, High coercivity of partially devitrified glass-coated finemet microwires: effect of geometry and thermal treatment, *IEEE Trans. Magn.* 36, No 5 (2000) 3015-3017
112. V. Zhukova, A.F. Cobeño, E. Pina, A. Zhukov, J.M. Blanco, L. Dominguez, V. Larin and J. Gonzalez, "Study of the Magnetic Properties of $\text{Fe}_{73.4-x}\text{Cu}_{1\text{Nb}3.1}\text{Si}_{13.4+x}\text{B}_{0.1}$ ($0 < x < 1.1$) Microwires", *J. Magn. Magn. Mater.*, 215-216 (2000) p.322-324
113. V. Zhukova, A.F. Cobeño, A. Zhukov, J.M. Blanco, S. Puerta, J. Gonzalez and M. Vázquez, Tailoring of magnetic properties of glass coated microwires by current annealing, *Non-crystalline solids* 287 (2001) 31-36.
114. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez, Surface and bulk hysteresis loops of Fe-rich glass coated microwires, *Non-crystalline solids* 287 (2001) 374-379.
115. C. Miguel, A.P. Zhukov and J. Gonzalez, Stress and/or Field Annealing in $\text{Fe}_{73.5}\text{Cu}_{1\text{Nb}3}\text{Si}_{15.5}\text{B}_7$ Amorphous Ribbon, *Non-crystalline solids* 287 (2001) 355-359.
116. A. Chizhik, A. Zhukov, J.M. Balnco and J. Gonzalez, Magneto-optical investigation of the magnetization reversal in Co-rich wires, *Physica B* 299 (2001) 314-321.
117. J.J. del Val, J. González and A. Zhukov, Structural study of glass coated Cu-based microwires, *Physica B* 299 (2001) 242-250
118. A. Zhukov, Domain Wall propagation in a Fe-rich glass-coated amorphous microwire, *Applied Physics Letters*, 78 (2001) 3106-3108
119. J.M. Blanco, A. Zhukov, A. P. Chen, A.F. Cobeño, A. Chizhik and J. Gonzalez, Asymmetric torsion giant impedance in nearly-zero magnetostrictive amorphous wires with induced helical anisotropy, *J. Phys. D: Appl. Phys.* 34 (2001) L31-L34.
120. M. Vázquez, J.M. García-Beneytez, J.M. García, J.P. Sinnecker and A. Zhukov, Giant magneto-impedance in heterogeneous microwires, *J. Appl. Phys.* 88 (2000) 6501-6505.
121. A. F. Cobeño, A. Zhukov, J. M. Blanco, V. Larin and J. Gonzalez, Magnetoelastic sensor based on GMI of amorphous microwire, *Sensors and Actuators (A)* 91 (2001) 95-98
122. V. Zhukova, A. Zhukov, J.M. Blanco and J. Gonzalez, Switching field dependence on applied field orientation in bistable Fe-rich microwires, *Phys. Stat. Sol. A* 189 (2002) 795-798.
123. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez, Kerr effect as method of investigation of magnetization reversal in amorphous wires, *Phys. Stat. Sol. A* 189 (2002) 625-629.
124. V. Zhukova, A. Zhukov, J.M. Blanco and J. Gonzalez, Effect of applied stress on remagnetization and magnetization profile of Co-Si-B amorphous wire, *J. Magn. Magn. Mater.* 242-245 (2002), 1439-1442

125. A. Chizhik, V. Zhukova, A. Zhukov, J.M. Blanco, J. Gonzalez, Annealing induced Changes of sign of magnetostriction in Co-rich amorphous wire, *J. Magn. Magn. Mat* 242-245 (2002), 244-246
126. V. Zhukova, S. Kaloshkin, A. Zhukov and J. Gonzalez, DSC studies of Finemet-type glass-coated microwires, *J. Magn. Magn. Mat.* 249 /1-2 (2002) 108-112.
127. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez, Magneto-optical investigation of magnetization reversal in nearly-zero magnetostrictive co-rich wire and microwire, *J. Magn. Magn. Mat* 249 /1-2 (2002) 27-33.
128. V. A. Zhukova, A. B. Chizhik, J. Gonzalez, D. P. Makhnovskiy, L. V. Panina, D. J. Mapps and A. P. Zhukov, Effect of annealing under torsion stress on the field dependence of the impedance tensor in amorphous wire, *J. Magn. Magn. Mat* 249/1-2 (2002) 318-323.
129. J. J. del Val, A. Zhukov and J. González, Correlation of magnetic and structural properties of glass-coated Cu-based microwires, *J. Magn. Magn. Mat.* 249 /1-2 (2002) 126-130.
130. V. Zhukova, A. Zhukov, J.M. Blanco and J. Gonzalez, Orientational dependence of switching field in bistable Co-rich wires, *J. Magn. Magn. Mater.* 254-255 (2003) 185-187.
131. V. Zhukova, J.M. Blanco, A. Zhukov, J. Gonzalez, A. Torcunov and V. Larin, Magnetostriction of glass-coated Co-rich amorphous microwires and its dependence on current annealing, *J. Magn. Magn. Mater.* 254-255 (2003) 94-96
132. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez, Kerr effect investigation of magnetization reversal in Co-rich glass coated microwires, *J. Magn. Magn. Mater.* 254-255 (2003) 188-190
133. C. Miguel, A.P. Zhukov and J. González, Magnetoimpedance of Stress and/or Field Annealed Fe_{73.5}Cu₁Nb₃Si_{15.5}B₇ Amorphous Ribbon, *J. Magn. Magn. Mater.* 254-255 (2003) 463-465
134. V. Zhukova, J. M. Blanco, A. Zhukov and J. Gonzalez, Length Effect in a Negative Magnetostrictive Co-Si-B Amorphous Wire with Rectangular Hysteresis Loop, *J. Magn. Magn. Mater.* 254-255 (2003) 182-184
135. A. Chizhik, A. Zhukov, J.M. Blanco, R. Szymczak and J. Gonzalez, Interaction between Fe-rich ferromagnetic glass coated microwires, *J. Magn. Magn. Mat* 249/1-2 (2002) 99-103.
136. A. F. Cobeño, J. M. Blanco, A. Zhukov, J. González, Sensitive magnetoelastic properties of glass coated CoMnSiB amorphous microwires for magnetoelastic sensors, *J. Magn. Magn. Mat* 249/1-2 (2002) 396-400.
137. A. F. Cobeño, A. Zhukov, J. M. Blanco and J. Gonzalez, Giant magneto-impedance effect in CoMnSiB amorphous microwires, *J. Magn. Magn. Mat* 234 (2001) L359-L365
138. K.L. García, J.M. García-Beneytez, R. Valenzuela, A. Zhukov, J. González and M. Vázquez, Effects of Torsion on the Magnetoimpedance Response of CoFeBSi Amorphous Wires, *J. Magn. Magn. Mat* 226-230 (2001) 731-733.
139. V. Zhukova, J.M. Blanco, A. Zhukov, J. Gonzalez, Studies of the magnetostriction of as-prepared and annealed glass-coated Co-rich amorphous microwires by SAMR method, *J. Phys. D: Appl. Phys.* 34 (2001) L113-L116.
140. A. Chizhik, J. Gonzalez, A. Zhukov and J.M. Blanco, Magnetization reversal of Co-rich wires in circular magnetic field, *J. Appl. Phys.* 91, No 1 (2002) 537-539.
141. V. Zhukova, N.A. Usov, A. Zhukov and J. Gonzalez, Length effect in Co-rich amorphous wire, *Phys. Rev B*, 65 (2002) 134407-1-7, doi: [doi:10.1103/PhysRevB.65.134407](https://doi.org/10.1103/PhysRevB.65.134407)

142. C. Miguel, A.P. Zhukov and J. González, "Stress and/or Field Induced Magnetic Anisotropy in the Amorphous Fe_{73.5}Cu₁Nb₃Si_{15.5}B₇ Alloy: Influence on the Coercivity, Saturation Magnetostriction and Magneto-Impedance Response", *Phys. Stat. Sol. (a)* 194 (2002) 291-303
143. V Zhukova, A. Zhukov, J.M. Blanco, J. Gonzalez and B. K. Ponomarev, "Switching field fluctuations in a glass coated Fe-rich amorphous microwire", *J. Magn. Magn. Mat.* 249/1-2 (2002)131-135
144. V. S. Larin, A. V. Torcunov, A. Zhukov, J. González, M. Vazquez, L. Panina "Preparation and properties of glass-coated microwires" *J. Magn. Magn. Mater.* 249/1-2 (2002) 39-45.
145. V. Zhukova, A. Chizhik, A. Zhukov, A. Torcunov, V. Larin and J. Gonzalez, Optimization of giant magneto-impedance in Co-rich amorphous microwires, *IEEE Trans. Magn.* 38, 5, partI, (2002) 3090-3092
146. A Chizhik, J Gonzalez, A Zhukov and JM Blanco, "Circular magnetic bistability in Co-rich amorphous microwires" *Appl. Phys. Lett.* 82 4 (2003), 610-612
147. H. Chiriac, T.-A- Ovari and A. Zhukov, "Magnetoelastic anisotropy of amorphous microwires", *J. Magn. Magn. Mater.* 254-255 (2003) 469-471
148. V. Zhukova, A. Zhukov, J.M. Blanco, N. Usov and J. Gonzalez, " Effect of applied stress on remagnetization and magnetization profile of Co-Si-B amorphous wire", *J. Magn. Magn. Mater.* 258-259 (2003) 189-191
149. V. S. Larin, V. Zhukova, A. Zhukov, A. V. Torcunov and M. Vazquez, "Tailoring of magnetic anisotropy in Fe-rich glass – coated magnetic microwires by thermo-mechanical annealing", *Sensors and Actuators (A)* 106 (2003) 96-100.
150. V. Zhukova, A. Zhukov, V. Kraposhin, A. Prokoshin and J. Gonzalez, "Magnetic properties and GMI of soft magnetic amorphous fibers", *Sensors and Actuators (A)* 106 (2003) 225-229
151. V. Zhukova, A. Zhukov, J.M. Blanco, J. Gonzalez, C. Gómez –Polo and M. Vázquez, "Effect of applied stress on magnetization profile of Fe-Si-B amorphous wire", *J. Appl. Phys.* 93 (2003) 7208-7210
152. C. Luna, V. Raposo, I. Garshelis, A. P. Zhukov, J.I. Iñiguez, M. Vázquez, "Inducing rotation and levitation of magnetostrictive wires and rods: Correlated amplitude and frequency of exciting ac axial magnetic field", *Sensors and Actuators (A)* 106 (2003) 274-277
153. M. Vázquez, A.P. Zhukov, K.L. García, K.R. Pirota, A. Ruiz, J.L. Martinez and M. Knobel, "Temperature dependence of magnetization reversal in magnetostrictive glass-coated amorphous microwires" *Mat. Sci. Eng. A* 375-377 (2004) 1145-1148
154. J. M. Blanco, A. Zhukov, V. M. Prida, and J. Gonzalez, "Effect of annealing on torsion giant impedance of Co-rich amorphous wires with vanishing magnetostriction", *J. Appl. Phys.* 91, 10 (2002) 8426-8428.
155. A. Chizhik, J Gonzalez, A Zhukov and J M Blanco, "Circular magnetic bistability in Co-rich amorphous microwires" *Phys. D: Appl. Phys.* 36 (2003) 419-422
156. R. Zuberek, M. Gutowski, H. Szymczak, A. Zhukov and J. Gonzalez, "FMR study of amorphous Co₆₈Mn₇Si₁₀B₁₅ glass-coated microwires" *Phys. Stat. Sol. (a)* 196 (2003) 205-208.
157. V. Zhukova, V.S. Larin and A. Zhukov, "Stress induced magnetic anisotropy and giant magnetoimpedance in Fe-rich glass/coated magnetic microwires " *J. Appl. Phys.* 94 2 (2003), 1115-1118, doi: <https://doi.org/10.1063/1.1585113>

158. R. Varga, K.L. García, A. Zhukov and M. Vázquez and P. Vojtanek, "Temperature dependence of the switching field and its distribution in Fe-rich bistable microwires" *Appl. Phys. Lett.* 83 13 (2003), 2620-2622
159. V. Zhukova, A. Zhukov, J. Gonzalez, J.M. Blanco and M. Vázquez. "Processing of magnetic properties of nearly-zero magnetostrictive glass coated microwires by current annealing" *IEEE Trans. Magn.* Vol.39, No 6 (2003) pp.3613-3615
160. A. F.Cobeño, A. Zhukov, J. M. Blanco and J Gonzalez, "Air flux magnetoelastic sensor based on inverse Wiedemann effect of amorphous ribbon", *Sensors and Actuators (A)* 106 (2003) 174-178
161. K. García, A. Zhukov, V. Zhukova, M. Provencio, A. Torcunov, M. Vazquez , M. Kuzminski, J. Gonzalez, H. Lachowicz, "Tailoring of GMI effect in Co-rich glass coated microwires by Joule heating", *Trans. Magn. Soc. Jpn.* vol.3 No 4, 122-125 (2003).
162. V. Zhukova, A. Zhukov, V. Kraposhin, A. Prokoshin and J. Gonzalez, "Giant magnetoimpedance (GMI) effect in soft melt-extracted magnetic amorphous fibres", *Trans. Magn. Soc. Jpn.* vol.3 No 4, 118-121 (2003).
163. A. Zhukov, C. Luna, J.L. Martinez, V. Zhukova and M. Vázquez, "Magnetoresistance in Co-Ni-Cu glass coated microwires", *J. Magn. Magn. Mat.* 272-276 (2004) e1389-e1391
164. R. Varga, K.L. García, A.P. Zhukov, M. Vázquez , Switching field fluctuations in bistable microwires, *Physica B* 343 (1-4)(2004)pp.403-409
165. V. Zhukova, A.P. Zhukov, N.A. Usov, J.M. Blanco, J. González, "Magnetization Reversal Process at Low Applied Magnetic Field in a Co-rich Amorphous Wire" *Physica B* 343 (1-4)(2004)pp.369-373
166. A. Chizhik, A. Zhukov, J.M. Blanco, J. Gonzalez Surface magnetization reversal in Co-rich amorphous microwires in crossed magnetic fields, *Physica B* 343 (1-4)(2004)pp.374-378
167. A. Chizhik, J. Yamasaki, A. Zhukov, J. Gonzalez, J.M. Blanco, "Magnetization reversal and magnetic domain structure in glass-covered Co-rich microwires in presence of tensile stress" *J. Magn. Magn. Mat.* 272-276 (2004) e-499-e500
168. M. Gutowski, R. Zuberek, and A. Zhukov, "Novel surface anisotropy term in the FMR spectra of amorphous microwires", *J. Magn. Magn. Mat.* 272-276 (2004) e1145-e1146
169. M. Vázquez, A. Zhukov, K.R. Pirota, R. Varga, M. Hernandez, K.L. García, C. Luna, M. Provencio, D. Navas and J.L. Martínez, "Temperature dependence of remagnetization process in bistable magnetic microwires", *J. Non-cryst. Solids* 329 (1-3) (2003) pp.123-130
170. C. Miguel, S.D. Kaloshkin, J. González and A. Zhukov, "Curie temperature behaviour of annealed Finemet-type amorphous alloys", *J. Non-cryst. Solids* 329 (1-3) (2003) pp.63-66
171. A. P. Chen, V. Zhukova, A. Zhukov, L.Dominguez, A. Chizhik, J.M. Blanco and J.González, "Influence of the ac magnetic field and induced magnetic anisotropy on the surface magnetoimpedance tensor in an amorphous wire", *J. Phys. D: Appl. Phys.* 37 (2004) pp2773-2779
172. Chen, A.P. Britel, M.R. Zhukova, V. Zhukov, A. Dominguez, L. Chizhik, A.B. Blanco, J.M. Gonzalez, Influence of AC magnetic field amplitude on the surface magnetoimpedance tensor in amorphous wire with helical magnetic anisotropy, *IEEE Transactions on Magnetism*, 40, 5, (2004) pp.3368- 3377.

173. R. Varga, K.L. García, M. Vázquez, A. Zhukov, P. Vojtanik, "Switching field distribution in amorphous magnetic bistable microwires", *Phys. Rev. B* 70 (2004), 024402-1, doi: <https://doi.org/10.1103/PhysRevB.70.024402>
174. K.R. Pirota, M. Hernandez-Velez, D. Navas, A. Zhukov and M. Vázquez, "Multilayer microwires: Tailoring magnetic behaviour by sputtering and electroplating", *Adv. Funct. Mater.* 14 No 3 (2004) pp.266-268.
175. A. Zhukov, J. L. Martinez, V. Zhukova, J. Palomares, J. Gonzalez, J. J. del Val and M. Vázquez., Magnetoresistance in Granular Co-Cu Glass- coated Microwires, *IEEE Trans Magn.* 40, 4 (2004) pp. 2254-2256
176. A. Zhukov, D. Martín y Marero, F. Batallan, J. J. del Val, V. Zhukova, J. L. Martinez, C. Luna, J. Gonzalez S. Kaloshkin and M. Vázquez, Studies of magnetoresistance and structure in Co-Ni-Cu thin wires, *Phys. Stat. Sol. (c)* 1, 12 (2004) pp.3717-3721.
177. A. Chizhik, J. Gonzalez, A. Zhukov, J.M. Blanco, "High frequency electric current influence on circular bistability in Co-rich amorphous microwires", *Phys. Stat. Sol. (c)* 1, 12 (2004) pp.3385—3388
178. J. J. del Val, J. González and A. Zhukov, X-ray diffraction in amorphous (Fe_{75.5}B₁₃Si₁₁Mo_{0.5}) microwires: influence of their geometry, *Mat. Sci. Eng. A* 375-377 (2004) 679-682
179. H. Lachowicz, K.L. García, M. Kuzminski, A. Zhukov and M. Vázquez, Skin effect and circumferential permeability in micro-wires utilized in GMI-sensors, *Sensors and Actuators A*, 119 (2005) 384-389
180. V. Zhukova, A. Zhukov, V. Larin, A. Torcunov, J. Gonzalez, A. R. de Arellano Lopez, J.J. Quispe-Cancapa and A.R. Pinto-Gómez, "Magnetic and mechanical properties of magnetic glass-coated microwires with different glass coating." *Materials Science Forum*, 480-481 (2005) pp. 293-297
181. P. Gawroński, A. Zhukov, J. Gonzalez, J.M. Blanco, K. Kułakowski, "Tensile stress dependence of the magnetostatic interaction between Fe-rich wires", *J. Magn. Magn. Mater.* 290-291 (2005) pp. 595-598
182. A. Chizhik, J. Gonzalez, A. Zhukov, J.M. Blanco, "Vortex-type domain structure in Co-rich wires" *J. Appl. Phys.* 95 (2004) pp.2933-2935
183. A. Chizhik, A. Zhukov, J. Gonzalez, J.M. Blanco, "Effect of high-frequency driving current on magnetization reversal in Co-rich amorphous microwires" *Appl. Phys. Lett.* 85 (2004) pp.2292-2294
184. A. Chizhik, J. Gonzalez, A. Zhukov, J.M. Blanco, "Tensile stress influence on coercive properties in Fe-rich cold-drawn amorphous wires" *J. Magn. Magn. Mater.* 294 (2005) pp. e-167-e170
185. C. García, A. Zhukov, V. Zhukova, M. Ipatov, J.M. Blanco and J. Gonzalez, "Effect of Tensile Stresses on GMI of Co-rich Amorphous Microwires", *IEEE Trans Magn.* 41, 10 (2005) 3688-3690
186. Yu. Kabanov, A. Zhukov, V. Zhukova and J. Gonzalez, "Magnetic domain structure of microwires studied by using the magneto-optical indicator film method", *Appl. Phys. Lett.* 87 (2005) p142507, doi: <https://doi.org/10.1063/1.2077854>
187. A. Zhukov, "Design of magnetic properties of Fe-rich glass – coated magnetic microwires for technical applications", *Adv. Func. Mat.*, Volume 16, Issue 5, 2006, pp.675-680
188. R. Varga, A. Zhukov, M. Ipatov, J. M. Blanco, J. Gonzalez, V. Zhukova, P. Vojtaník, "Thermal activation over complex energy barrier in bistable microwires" *Phys. Rev. B* 73 (2006), 054408-1-5

189. R. Varga, A. Zhukov, J. M. Blanco, J. Gonzalez , V. Zhukova and P. Vojtanik, "Stress Dependence of the Domain Wall Potential in Amorphous CoFeSiB Glass-coated Microwires", *Physica B: Condensed Matter* , V372, (2006), pp. 230-233
190. C. García, A. Zhukov, J. Gonzalez, V. Zhukova, R. Varga, J.J. del Val, V. Larin, A. Chizhik and J.M. Blanco, "Stress dependence of coercivity in nanocrystalline Fe₇₉Hf₇B₁₂Si₂ glass-coated microwires", *J.Appl. Phys* 99 (2006) 08F116.
191. C. García, A. Zhukov, J. Gonzalez, V. Zhukova, R. Varga, J.J. del Val, V. Larin and J.M. Blanco, "Studies of a structural and magnetic properties of glass-coated nanocrystalline Fe₇₉Hf₇B₁₂Si₂ microwires", *J. Alloys and compounds*, 423 (2006)pp.116-119
192. P Gawronski, A.Zhukov, V. Zhukova, J. M. Blanco, J. González and K. Kulakowski, "Distribution of switching field fluctuations in Fe-rich wires under tensile stress", *Appl. Phys. Lett.* 88 (2006) 152507
193. M. Kuzminski, H. Lachowicz, K.L. García, A. Zhukov and M. Vázquez, "Influence of Alternative circular magnetic field strength on magnetoimpedance of glass-coated micro-wire" *J.Tech. Phys.*46, 3 (2005) 165-173
194. A.P. Chen, C. García, A. Zhukov, L. Domínguez, J.M. Blanco and J. González, "Influence of the ac Magnetic Field Frequency on the Magnetoimpedance of Amorphous Wire" *J. Phys. D: Appl. Phys.*39 (2006) 1718-1723
195. G. Krupinska, A. Zhukov, J. Gonzalez and K. Kulakowski, "Equation of motion of domain walls and the dynamic coercive field of bistable amorphous wires", *Computational Material Science* 36 (2006) 268-271
196. D. Mahnovskiy, L. Panina. C. García, A. Zhukov and J. González, "Experimental demonstration of tuneable scattering spectra at microwave frequencies in composite media containing CoFeCrSiB glass-coated amorphous ferromagnetic microwires and comparison with theory", *Phys. Rev. B* 74 (2006), 064205-1-11
197. C. García, A. Zhukov, J. Gonzalez, V. Zhukova and J.M. Blanco, "GMI effect in thin amorphous wires at elevated frequencies", *Journal of Optoelectronics and Advanced Materials* vol.8, No 5, (2006) pp.1706—1709
198. A. Zhukov, V. Zhukova, V. Larin , J.M. Blanco and J. Gonzalez, "Tailoring of magnetic anisotropy of Fe-rich microwires by stress induced anisotropy", *Physica B* 384 (2006) 1-4
199. A. Chizhik, C. Garcia, A. Zhukov, J. Gonzalez, L. Dominguez and J.M. Blanco, "Investigation of surface magnetization reversal in Co-rich amorphous microwires with magneto-impedance effect", *Physica B* 384 (2006) 5-8
200. A.P. Chen, A. Zhukov, J.M. Blanco, L. Dominguez and J. González, "Dynamic Magnetization Processes in Magnetostrictive Amorphous Wires", *J. Appl. Phys.* 100 (2006) 083907 1-4
201. P. Gawronski, A.P. Zhukov, J.M. Blanco, J. González, V. Zhukova, K. Kulakowski, "Studies of the remagnetization process in cold drawn Fe-rich thin amorphous wires", *J. Magn. Magn. Mater.* 310 (2007) e893–e895
202. C. García, V. Zhukova, A. Zhukov, N. Usov, M. Ipatov, J. Gonzalez and J.M. Blanco, "Effect of interaction on GMI effect in a system of few thin wires", *Sensor Letters*, Volume 5, Number 1, March 2007, pp. 10-12
203. A Zhukov, K. García, M. Kuzminski, V. Zhukova, H. K. Lachowicz , J. Gonzalez and M. Vázquez, "GMI effect in Co-rich glass-coated microwires for sensor applications", *Sensors & Transducers* 41, No.3 (2004) 174-180

204. R. Varga, A. Zhukov, J. M. Blanco, M. Ipatov, V. Zhukova and J. Gonzalez, P. Vojtaník, "Fast Magnetic Domain Wall in Magnetic Microwires", *Phys. Rev. B*, 74 (2006) 212405-1-5
205. R. Varga, A. Zhukov, J. M. Blanco, M. Ipatov, V. Zhukova and J. Gonzalez, P. Vojtaník, "The Influence of the glass coating on the single Domain Wall potential in amorphous glass-coated Fe-based Microwires", *J. Magn. Magn. Mater.* 304 (2006) e519-e521
206. V. Zhukova, A. Zhukov, F. J. Palomares, F. Pigazo, F. Cebollada, J. J. Del Val, C. García, J.M.Gonzalez and J. Gonzalez, "Thermal dependence of coercivity in granular CoNiCu glass coated microwires", *J. Magn. Magn. Mater.* 310 (2007) e867-e869
207. R. Varga, A. Zhukov, V. Zhukova, J. M. Blanco and J. Gonzalez, "Supersonic domain wall in magnetic microwires", *Phys. Rev. B* 76, (2007,)132406, doi: <https://doi.org/10.1103/PhysRevB.76.132406>
208. V. Zhukova, M. Ipatov, C. García, J. Gonzalez, J. M. Blanco and A. Zhukov, "Development of Ultra-Thin Glass-Coated Amorphous Microwires for High Frequency Magnetic Sensors Applications", *Open Materials Science Reviews*, 1,(2007), pp.1-12
209. M. Vázquez, G. Badini, K. Pirola, J. Torrejón, A. Zhukov, A. Torcunov, H. Pfützner, M. Rohn, A. Merlo, B. Marquardt and T. Meydan, "Applications of amorphous microwires in sensing technologies", *International Journal of Applied Electromagnetics and Mechanics*, Volume 25, Number 1-4 / 2007, Pp: 441 – 446
210. A. Chizhik, C. Garcia, A. Zhukov, P. Gawronski, K. Kulakowski, J. Gonzalez, J.M. Blanco, "Investigation of helical magnetic structure in Co-rich amorphous microwires", *J. Magn. Magn. Mater.* 316 (2007) pp. 332-336
211. C. Garcia, A. Zhukov, V. Zhukova, V. Larin, J. Gonzalez, J.J. del Val, M. Knobel, "Temperature dependence of magnetic properties of Cu₈₀Co₁₉Ni₁ thin microwires", *J. Magn. Magn. Mater.* 316 (2007) pp. e71-e73
212. C. Garcia, A. Chizhik, A. Zhukov, V. Zhukova, J. Gonzalez, J.M. Blanco, L.V. Panina, "Influence of torsion and tensile stress on magnetoimpedance effect in Fe-rich amorphous microwires at high frequencies", *J. Magn. Magn. Mater.* 316 (2007) pp. E96-e99
213. A. Chizhik, J.M. Blanco, A. Zhukov, J. Gonzalez, C. Garcia, P. Gawronski, K. Kulakowski, "Magneto-optical determination of helical magnetic structure in amorphous microwires", *Physica B* 403 (2008) 289–292
214. C. García, V. Zhukova, J. Gonzalez, J.M. Blanco, A. Zhukov, "Effect of magnetic field frequency on coercivity behavior of nanocrystalline Fe₇₉Hf₇B₁₂Si₂ glass-coated microwires", *Physica B* 403 (2008) 286–288
215. V. Zhukova, J.M. Blanco, M. Ipatov, R. Varga, J. Gonzalez, A. Zhukov, "Domain wall propagation in Fe-rich microwires" *Physica B* 403 (2008) 282–285
216. M. Ipatov, N.A. Usov, A. Zhukov, J. Gonzalez, "Local nucleation fields of Fe-rich microwires and their dependence on applied stresses", *Physica B* 403 (2008) 379–381
217. R. Varga, A. Zhukov, N. Usov, J.M. Blanco, J. Gonzalez, V. Zhukova, P. Vojtanik, "Domain-wall dynamics in glass-coated magnetic microwires", *J. Magn. Magn. Mater.* 316 (2007) 337–339
218. R. Žuberek, H. Szymczak, M. Gutowski, A. Zhukov, V. Zhukova, N.A. Usov, K. Garcia, M. Vazquez, "Internal stress influence on FMR in amorphous glass-coated microwires", *J. Magn. Magn. Mater.* 316 (2007) e890-e892.

219. N.A. Usov, A. Zhukov, J. Gonzalez, Domain walls and magnetization reversal process in soft magnetic nanowires and nanotubes, ", J. Magn. Magn. Mater. 316 (2007) pp. 255–261.
220. S. Gudoshnikov, N. Usov, A. Zhukov, J. Gonzalez, P. Palvanov, "Measurements of stray magnetic fields of amorphous microwires using scanning microscope based on superconducting quantum interference device", J. Magn. Magn. Mater. 316 (2007) pp. 188-191.
221. A. Chizhik, J. Gonzalez, P. Gawronski, K. Kulakowski, A. Zhukov, J. M. Blanco, "Torsion and tension stress induced transformation of surface magnetic structure in Co-rich amorphous microwires", Journal of Non-Crystalline Solids 353 (2007) 935–937
222. M. Ipatov, R. Varga, A. Zhukov, J. M. Blanco, J. Gonzalez, V. Zhukova "Complex susceptibility measurements in amorphous glass-coated microwires", Journal of Non-Crystalline Solids 353 (2007) 928–930
223. N. A. Usov, A. Zhukov, J. Gonzalez, "Single-domain particle with random anisotropy", Journal of Non-Crystalline Solids 353 (2007) 796–798
224. A. Zhukov, C. García , V. Zhukova, V. Larin, J. González, J. J. del Val, M. Knobel, J. M. Blanco, "Fabrication and magnetic properties of Cu₅₀(Fe₆₉Si₁₀B₁₆C₅)₅₀ thin microwires", Journal of Non-Crystalline Solids 353 (2007) 922–924
225. A. Chizhik, J. M. Blanco, A. Zhukov, J. Gonzalez, C. Garcia, P. Gawronski and K. Kulakowski "Surface and Bulk Magnetic Hysteresis Loops of Co-Rich Glass Covered Microwires", IEEE TRANSACTIONS ON MAGNETICS 42, No12, (2006) pp.3889-3992
226. A. Chizhik, R. Varga A. Zhukov J. Gonzalez and J. M. Blanco, "Kerr-effect based Sixtus-Tonks experiment for measuring the single domain wall dynamics", J. Appl. Phys. 103, (2008) 07E707 -1-3
227. A. Chizhik, C. Garcia, A. Zhukov, J. Gonzalez, P. Gawronski, K. Kulakowski, and J. M. Blanco "Relation between surface magnetization reversal and magnetoimpedance in Co-rich amorphous microwires", J. Appl. Phys. 103, (2008) 07E742 -1-3
228. V. Zhukova, M. Ipatov, J. Gonzalez, J. M. Blanco and A. Zhukov, "Studies of magnetic properties and giant magnetoimpedance effect in ultrathin magnetically soft amorphous microwires", : J. Appl. Phys. 103, (2008) 07E714 -1-3
229. G. R. Aranda, N. A. Usov, V. Zhukova, A. Zhukov, and J. Gonzalez, "Magnetostatic properties of Co-rich amorphous microwires: theory and experiment", Phys. stat. sol. (a) 205, No. 8, (2008)1800–1804
230. A. Chizhik, J. Gonzalez, A. Zhukov, J.M. Blanco, Transformation of surface domain structure in Co-rich amorphous wires, Sensors and Actuators B 126 (2007) 235–239
231. V. Zhukova, J.M. Blanco, M. Ipatov, A. Zhukov, C. Garcia, J. Gonzalez, R. Varga, A. Torcunov, Development of thin microwires with low Curie temperature for temperature sensors applications, Sensors and Actuators B 126 (2007) 318–323
232. V. Zhukova, M. Ipatov, A. Zhukov, J. Gonzalez, J.M. Blanco, GMI effect in ultra-thin glass-coated Co-rich amorphous wires, Sensors and Actuators B 126 (2007) 232–234
233. K.Richter, Y. Kostyk, R. Varga, A. Zhukov, and V. Larin , Domain wall dynamics in amorphous microwires, ACTA PHYSICA POLONICA A Volume: 113 Issue: 1 Pages: 7-10 Published: JAN 2008

234. J. Olivera, J.Gamcova, R. Varga, J.D.Santos, V.M.Prida, M.L.Sanchez, B. Hernando, A.Zhukov, Susceptibility spectroscopy in FeNiSiB microwires, ACTA PHYSICA POLONICA A, Volume: 113 Issue: 1 Pages: 155-158 Published: JAN 2008
235. A. Zhukov, M. Ipatov, V. Zhukova, C. García, J. Gonzalez, and J. M. Blanco, “Development of ultra-thin glass-coated amorphous microwires for HF magnetic sensor applications”, Phys. Stat. Sol. (a), 205 No 6 (2008) 1367-1372
236. R. Varga, C. Luna, A. Zhukov, M. Vázquez, Devitrification of the Finemet-based microwires during the heat treatment, CZECHOSLOVAK JOURNAL OF PHYSICS, Volume: 54 Pages: D177-D180 Part: Part 1 Suppl. D Supplement: Part 1 Suppl. D Published: 2004
237. C. Miguel C, A. Zhukov, J.J. del Val, A. Ramírez de Arellano, J. Gonzalez, Effect of stress and/or field annealing on the magnetic behavior of the (Co₇₇Si_{13.5}B_{9.5})(90)Fe₇Nb₃ amorphous alloy, J. Appl. Phys. Volume: 97 Issue: 3 Article Number: 034911 Published: FEB 1 2005
238. M.N. Baibich , G. Martínez, M.G.M. Miranda , A.T. da Rosa, J. González , A. Zhukov, Ribbons and micro-wires of CuCo segregated alloys, J. Magn. Magn. Mater. 320 (2008), e29-e31
239. M. I. Ilyn, V. Zhukova, J. D. Santos, M. L. Sánchez, V. M. Prida, B. Hernando, V. Larin, J. González, A. M. Tishin, and A. Zhukov, “Magnetocaloric effect in nanogranular glass coated microwires” ,Phys. Stat. Sol. (a), 205 No 6 (2008) 1378-1381
240. N. Iturriza, A. Zhukov, J.J. del Val, N.Murillo, J. Gonzalez,, Microstructure and soft magnetic properties of nanocrystalline (Co₇₇Si_{0.135}B_{0.095})(90)Fe₇Nb₃ alloy, Phys. Stat. Sol. (a), 205 (2008) 1363-1366
241. C. Garcia, J. Gonzalez, A.Chizhik, A. Zhukov, J.M. Blanco, Asymmetrical magneto-impedance effect in Fe-rich amorphous wires, JOURNAL OF APPLIED PHYSICS Volume: 95 Issue: 11 Pages: 6756-6758 Part: Part 2 (2004)
242. C. Garcia, A. Chizhik, , JJ del Val, A. Zhukov, JM Blanco, J Gonzalez, Magnetic and magnetotransport properties in thin Fe-rich wires processed by cold drawing, PHYSICS OF METALS AND METALLOGRAPHY Volume: 102 Pages: S8-S12 Supplement: Suppl. 1 Published: DEC 2006
243. N.A. Usov, A. Zhukov, J. Gonzalez, Title: Remanent magnetization states in soft magnetic nanowires, IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Pages: 3063-3065 Published: 2006
244. M. Ipatov, V. Zhukova, J. M. Blanco, J. Gonzalez, and A. Zhukov, Off-diagonal magneto-impedance in amorphous microwires with diameter 6–10 μm and application to linear magnetic sensors, Phys. stat. sol. (a) 205, No. 8, (2008) 1779–1782
245. A. Zhukov, V. Zhukova, J. Gonzalez, L. Panina and J.M. Blanco, “Development of Stress and Temperature Sensitive Microwires for the Sensor Applications and Tuneable Composite Materials”, Advances in Science and Technology Vol. 54 (2008) pp 180-186
246. R. Varga, Yu. Kostyk, K. Richter, A. Zhukov, and M. Vazquez, “Domain-wall dynamics in bistable magnetic microwires”, Phys. Status Solidi A 206, No. 4, 608–612 (2009)
247. S. A. Gudoshnikov, Yu. B. Grebenshchikov, B. Ya. Ljubimov, P. S. Palvanov, N. A. Usov, M. Ipatov, A. Zhukov, and J. Gonzalez, “Ground state magnetization distribution and characteristic width of head to head domain wall in Fe-rich amorphous microwire”, Phys. Status Solidi A 206, No. 4, 613–617 (2009)

248. V. Popov, V. Zhukova, M. Ipatov, C. García, J. Gonzalez, V. Ponomarenko, V. Berzhansky, D. Vinogorodsky, and A. Zhukov, "Studies of giant magnetoimpedance effect of Co-rich microwires in wide frequency range", *Phys. Status Solidi A* 206, No. 4, 671–673 (2009)
249. A. Zhukov, M. Ipatov, J. M. Blanco, J. Gonzalez, and V. Zhukova, "Studies of thin microwires with enhanced magnetic softness and GMI effect", *Phys. Status Solidi A* 206, No. 4, 674–678 (2009)
250. V. Zhukova, J. M. Blanco, M. Ipatov, J. Gonzalez, and A. Zhukov, Domain-wall propagation in thin Fe-rich glass-coated amorphous wires, *Phys. Status Solidi A* 206, No. 4, 679–682 (2009)
251. A. Chizhik, A. Zhukov, J. M. Blanco, J. Gonzalez, P. Gawronski, "Experimental determination of limit angle of helical anisotropy in amorphous magnetic microwires", *J. Magn. Magn. Mat.* 321 (2009) 803–805
252. A. Zhukov, C. Garcia, J. J. Del Val, J. Gonzalez, M. Knobel, D. Serantes, D. Baldomir and V. Zhukova, "Studies of Fe–Cu microwires with nanogranular structure", *J. Phys.: Condens. Matter* 21 (2009) 035301 (6pp)
253. R. Varga, K. Richter, A. Zhukov, and V. Larin, "Domain Wall Propagation in Thin Magnetic Wires", *IEEE TRANSACTIONS ON MAGNETICS* Volume: 44 Issue: 11 Pages: 3925-3930 Part: Part 2 Published: NOV 2008
254. V. Zhukova, M. Ipatov, J. González, J. M. Blanco and A. P. Zhukov, "Development of Thin Microwires With Enhanced Magnetic Softness and GMI", *IEEE TRANSACTIONS ON MAGNETICS*, VOL. 44, NO. 11, Part: Part 2 pages 3958-3961, NOVEMBER 2008
255. J. Olivera, M. L. Sánchez, V. M. Prida, R. Varga, V. Zhukova, A. Zhukov, and B. Hernando, "Temperature Dependence of the Magnetization Reversal Process and Domain Structure in Fe_{77.5}-xNi_xSi_{7.5}B₁₅ Magnetic Microwires", *IEEE TRANSACTIONS ON MAGNETICS* Volume: 44 Issue: 11 Pages: 3946-3949 Part: Part 2 Published: NOV 2008
256. A. Chizhik, A. Zhukov, J. M. Blanco, J. Gonzalez, P. Gawronski, and K. Kulakowski, "Experimental Determination of Relation Between Helical Anisotropy and Torsion Stress in Amorphous Magnetic Microwires", *IEEE TRANSACTIONS ON MAGNETICS* Volume: 44 Issue: 11 Pages: 3938-3941 Part: Part 2 Published: NOV 2008
257. N. A. Usov, A. P. Chen, A. Zhukov, and J. González, "Nucleation field of a soft magnetic nanotube with uniaxial anisotropy", *J. APPL. PHYS.* 104 (2008) 083902
258. M. Ilyn, A. V. Andreev, V. Zhukova, A. Zhukov, A. Tishin, and J. Gonzalez, "Magnetocaloric effect and spin reorientation transition in single-crystal Er₂(Co_{0.4}Fe_{0.6})₁₇", *J. APPL. PHYS.* 105 (2009) 07A918
259. J. Olivera, R. Varga, P. Vojtanik, V. M. Prida, M. L. Sanchez, B. Hernando, A. Zhukov, "Fast domain wall dynamics in amorphous glass-coated microwires", *Journal of Magnetism and Magnetic Materials* 320 (2008) 2534–2537
260. V. M. Prida, V. Vega, D. Serantes, D. Baldomir, M. Ilyn, A. Zhukov, J. Gonzalez, and Blanca Hernando, "Influence of magnetic anisotropy and dipolar interactions on magnetocaloric effect in nanostructured materials", *Phys. Status Solidi A*, 1–6 (2009) / DOI 10.1002/pssa.200881731
261. A. Chizhik, A. Zhukov, J. Gonzalez, and J. M. Blanco, "Control of domain nucleation in glass covered amorphous microwires", *J. APPL. PHYS.* 105, (2009) 123911
262. H.X. Peng, F.X. Qin, M.H. Phan, Jie Tang, L.V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, "Co-based magnetic microwire and field-tunable

- multifunctional macro-composites”, *Journal of Non-Crystalline Solids* 355 (2009) 1380–1386
263. C. García , A. Zhukov, J. González, J.J. del Val, J.M. Blanco, M. Knobel, V. Zhukova” Fabrication, structural and magnetic characterization of thin microwires with novel composition $\text{Cu}_{70}(\text{Co}_{70}\text{Fe}_{5}\text{Si}_{10}\text{B}_{15})_{30}$ ”, *Journal of Alloys and Compounds* 483 (2009) 566–569
 264. J.D. Santos, R.Varga, B.Hernando, A.Zhukov “Enhancement of GMI effect in magnetic microwires through the relative temperature dependence of magnetization and anisotropy”, *Journal of Magnetism and Magnetic Materials* 321 (2009) 3875–3877
 265. V. S. Larin and A. Zhukov, “Magnetic properties of microwires with amorphous structure after thermo mechanical treatment” *Phys. Status Solidi C* 6, No. 4, 958–961 (2009)
 266. C. García, V. Zhukova, J. J. del Vall, J. M. Blanco, and A. Zhukov, “Studies of electrical resistance in $\text{Ni}_{75}\text{Cr}_{7}\text{Si}_{7.5}\text{Mn}_{10.5}$ and $\text{Ni}_{80.5}\text{Cr}_{4.2}\text{Si}_{6.5}\text{Mn}_{5}\text{B}_{3.8}$ glass-coated wires”, *Phys. Status Solidi C* 6, No. 4, 953– 957 (2009)
 267. D. Serantes, D. Baldomir, and M. Pereiro, B. Hernando, V. M. Prida, and J. L. Sánchez Llamazares, A. Zhukov, M. Ilyn, and J. González “Magnetocaloric effect in dipolar chains of magnetic nanoparticles with collinear anisotropy axes” *Phys. Rev. B* 80, 134421 _(2009)
 268. M. Ipatov, V. Zhukova, A. K. Zvezdin and A. Zhukov, “Mechanisms of the ultrafast magnetization switching in bistable amorphous microwires”, *J. Appl. Phys.*, 106, 103902, 2009
 269. C. García, V. Zhukova, M. Ipatov, J. González, J.M. Blanco, A. Zhukov, “High-frequency GMI effect in glass-coated amorphous wires”, *Journal of Alloys and Compounds* 488 (2010) 9–12
 270. C. García, V. Zhukova, J. Gonzazez, A. Chizhik, J.M. Blanco, M. Ipatov, A. Zhukov, “Magnetic and transport properties of Fe-rich thin cold-drawn amorphous wires”, *Journal of Alloys and Compounds* 488 (2010) 5–8
 271. V. Zhukova, J. M. Blanco, M. Ipatov and A. Zhukov, “Effect of transverse magnetic field on domain wall propagation in magnetically bistable glass-coated amorphous microwires”, *J. Appl. Phys.*, 106, 113914, 2009
 272. A. Chizhik, A. Zhukov, A. Stupakiewicz, A. Maziewski, J. Blanco and J. Gonzalez, “Kerr microscopy study of magnetic domain structure changes in amorphous microwires.”, *IEEE Trans. Magn.* VOL. 45, NO. 10, OCTOBER 2009 p. 4279-4281
 273. D Serantes, D Baldomir, M Pereiro, B Hernando, V M Prida, J L Sánchez Llamazares, A Zhukov, M Ilyn and J González, “Magnetic ordering in arrays of one-dimensional nanoparticle chains”, *J. Phys. D: Appl. Phys.* 42 (2009) 215003 (9pp)
 274. P A Ekstrom and A Zhukov, “Spatial structure of the head-to-head propagating domain wall in glass-covered FeSiB microwire”, *J. Phys. D: Appl. Phys.* 43 (2010) 205001 (6pp), doi: <https://doi.org/10.1088/0022-3727/43/20/205001>
 275. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, and A. Zvezdin, “Low-field hysteresis in the magnetoimpedance of amorphous microwires”, *PHYSICAL REVIEW B* 81, (2010), 134421, doi: <https://doi.org/10.1103/PhysRevB.81.134421>.
 276. F. X. Qin, N. Pankratov, H. X. Peng, M. H. Phan, L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, “Novel magnetic microwires-embedded composites for structural health monitoring applications”, *J. APPL. PHYS.* 107 (2010) 09A314

277. Olivera J., M. Ipatov, M. L. Sánchez, V. M. Prida, R. Varga, B. Hernando, and A. Zhukov "Pinning Field Distribution and Microstructural Study of Thermal Annealed Fe-Nb-Cu-Si-B Wires", IEEE TRANSACTIONS ON MAGNETICS, VOL. 46, NO. 2, FEBRUARY 2010, 387-389
278. Rodionova V., Ipatov M., Ilyn M., Zhukova V., Perov N., Gonzalez J., and Zhukov A., "Design of magnetic properties of arrays of magnetostatically coupled glass-covered magnetic microwires", Phys. Status Solidi A, 207, No. 8, 1954–1959 (2010) / DOI 10.1002/pssa.200925497;
279. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, N. Perov, L. Panina, J. Gonzalez and A. Zhukov, "Magnetostatic interaction of glass-coated magnetic microwires" J. Appl. Phys., 108 (2010) 016103.
280. A. Chizhik, A. Stupakiewicz, A. Maziewski, A. Zhukov, J. Gonzalez and J. M. Blanco, "Direct observation of giant Barkhausen jumps in magnetic microwires", Appl. Phys. Lett. 97, 012502 (2010)
281. M. Ipatov, V. Zhukova, A. Zhukov and L. V. Panina, «Microwave Metamaterials Containing Magnetically Soft Microwires», Advances in Science and Technology Vol. 75 (2010) pp 224-229
282. J. Olivera, R. Varga, V. M. Prida, M. L. Sanchez, B. Hernando and A. Zhukov, "Domain wall dynamics during the devitrification of Fe_{73.5}CuNb₃Si_{11.5}B₁₁ magnetic microwires", PHYSICAL REVIEW B 82, 094414 _2010
283. M. Ipatov, V. Zhukova, A. Zvezdin, J. Gonzalez, J.M. Blanco and A. Zhukov, "Role of Defects on DomainWall Propagation in Magnetically Bistable Glass-Covered Microwires", J Supercond Nov Magn vol. 24 (2011), pp 851–854, DOI 10.1007/s10948-010-1029-9
284. A. Chizhik, V. Zablotskii, A. Stupakiewicz, C. Gómez-Polo, A. Maziewski, A. Zhukov, J. Gonzalez, and J. M. Blanco, "Magnetization switching in ferromagnetic microwires", PHYSICAL REVIEW B 82, 212401 _2010.
285. M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, "Magnetoimpedance sensitive to DC bias current in amorphous microwires" Appl. Phys. Lett 97 (2010) 252507, doi: <https://doi.org/10.1063/1.3529946>
286. A. Granovsky, M. Ilyn, V. Zhukova, A. Zhukov and J. Gonzalez, Giant magnetoresistance of granular microwires: spin dependent scattering in intergranular Spacers, Fisika Tverdogo Tela, 53, No2, (2011), 299-301, Physics of the Solid State, 2011, Vol. 53, No. 2, (2011) pp. 320–322
287. V.N. Prudnikov, A.P. Kazakov, I.S. titov, N.S. Perov, A.B. Granovsky, I.S. Dubenco, A.K. Patak, N. Ali, A. Zhukov and J. Gonzalez, "Hall effect at martensitic transition in Heisler Ni-Co-Mn-In alloys", JETP Letters, 92 No. 10 (2010), 735-740
288. S. Gudoshnikov, N. Usov, A. Zhukov, V. Zhukova, P. Palvanov, B. Ljubimov, O. Serebryakova, and S. Gorbunov, "Evaluation of use of magnetically bistable microwires for magnetic labels", Phys. Status Solidi A, 208, No. 3, 526–529 (2011)/ DOI 10.1002/pssa.201026414
289. J.M. Blanco, V. Zhukova, M. Ipatov, and A Zhukov, "Effect of applied stresses on domain wall propagation in glass-coated amorphous microwires", Phys. Status Solidi A 208, No. 3, 545–548 (2011) / DOI 10.1002/pssa.201026374
290. M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, "Annealing effect on local nucleation fields in bistable microwires", Phys. Status Solidi A 208, No. 3, 549–552 (2011)/ DOI 10.1002/pssa.201026373
291. D. Makhnovskiy, N. Fry, A. Zhukov, "On different tag reader architectures for bistable microwires", Sensors and Actuators A: Physical 166 (2011) pp. 133-140 (doi:10.1016/j.sna.2010.11.002)

292. M. Ipatov, G.R. Aranda, V. Zhukova, L.V. Panina, J. González and A. Zhukov, “Tunable effective permittivity of composites based on ferromagnetic microwires with high magneto-impedance effect”, *Applied Physics A: Materials Science and Processing* (2011) DOI 10.1007/s00339-010-6202-2, Volume: 103 Issue: 3 Pages: 693-697
293. J. Gamcova, R. Varga, B. Hernando and A. Zhukov, “The study of magnetization process in amorphous FeNiSiB microwires”, *Acta Physica Polonica A*, Volume 118, Issue 5, November 2010, Pages 807-808
294. K. Richter, R. Varga and A. Zhukov, “Influence of thermal treatment on domain wall dynamics in glass-coated microwires”, *Acta Physica Polonica A*, Volume 118, Issue 5, November 2010, Pages 738-739
295. R. Varga, K. Richter and A. Zhukov “Negative mobility of single domain wall in magnetic microwires”, *Acta Physica Polonica A*, Volume 118, Issue 5, November 2010, Pages 747-748
296. F. X. Qin, H. X. Peng, N. Pankratov, M. H. Phan, L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov and J. Gonzalez, “Exceptional electromagnetic interference shielding properties of ferromagnetic microwires enabled polymer composites”, *J. Appl. Phys.*, 108 (2010) 044510
297. M. Vázquez, A.P. Zhukov, K.L. García, K.R. Pirota, R. Varga, J.L. Martínez, “Dependencia térmica del proceso de inversión de la imanación en microhilos magnéticos biestables”, *Bol. Soc. Esp. Ceram. V.*, 43 [2] 532-535 (2004)
298. L.V. Panina, M. Ipatov, V. Zhukova, A. Zhukov and J. Gonzalez, “Microwave metamaterials with ferromagnetic microwires”, *Applied Physics A: Materials Science and Processing* (2011), DOI: 10.1007/s00339-010-6198-7, Volume: 103 Issue: 3 Pages: 653-657
299. L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, “Magnetic field effects in artificial dielectrics with arrays of magnetic wires at microwaves”, *J. APPL. PHYS.* 109, 053901 (2011)
300. N. A. Usov, A. Zhukov, and J. González, “Domain structure of magnetic nanotube with transverse anisotropy”, *Phys. Status Solidi A* 208, No. 3, 535–539 (2011) / DOI 10.1002/pssa.201026439
301. A. P. Kazakov, V. N. Prudnikov, A. B. Granovsky, A. P. Zhukov, J. Gonzalez, I. Dubenko, A. K. Pathak, S. Stadler, and N. Ali, “Direct measurements of field-induced adiabatic temperature changes near compound phase transitions in Ni–Mn–In based Heusler alloys”, *Appl. Phys. Lett.* 98 (2011) 131911
302. M. Ilyn, M. I. Bartashevich, A. V. Andreev, E. A. Tereshina, V. Zhukova, A. Zhukov and J. Gonzalez, “Magnetocaloric effect in single crystal Nd₂Co₇”, *J. Appl. Phys.* Vol.109, Issue 8, (2011)83932-1
303. F. X. Qin, H. X. Peng, V. V. Popov, L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, “Stress tunable properties of ferromagnetic microwires and their multifunctional composites”, *J. Appl. Phys.* , 109, 07A310 (2011)
304. M. Ipatov, A. Chizhik, V. Zhukova, J. Gonzalez, and A. Zhukov, “Correlation of surface domain structure and magneto-impedance in amorphous microwires *J. Appl. Phys.* 109, 113924 (2011); doi:10.1063/1.3596808
305. R. Varga, T. Ryba, Z. Vargova, K. Saksl, V. Zhukova, A. Zhukov, “Magnetic and structural properties of Ni-Mn-Ga Heusler-type microwires”, *Scripta Materialia*, volume 65, issue 8, (2011) pp. 703 – 706, doi.org/10.1016/j.scriptamat.2011.07.018
306. L.V. Panina , M.Ipatov , V.Zhukova , A.Zhukov, “Domain wall propagation in Fe-rich amorphous microwires”, *Physica B* 407 (2012) 1442–1445, doi:10.1016/j.physb.2011.06.047

307. V. Zhukova, J.M.Blanco, M.Ipatov, A.Zhukov, "Magnetoelastic contribution in domain wall dynamics of amorphous microwires", *Physica B* 407 (2012) 1450–1454, Doi:10.1016/j.physb.2011.09.124
308. A. Chizhik, A. Zhukov, J. Gonzalez, and J. M. Blanco, "Nucleation and transformation of circular magnetic-domain structure in amorphous microwires", *Phys. Status Solidi A* 208, No. 10(2011) 2277–2280
309. M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, "Symmetry breaking effect of dc bias current on magnetoimpedance in microwire with helical anisotropy: Application to magnetic sensors", *J. Appl. Phys.* 110 (2011) 086105
310. V. Rodionova, V. Zhukova, M. Ilyn, M. Ipatov, N. Perov, A. Zhukov, "The defects influence on domain wall propagation in bistable glass-coated microwires", *Physica B* 407 (2012) 1446–1449, doi:10.1016/j.physb.2011.09.125
311. V. Rodionova, N. Kudinov, A. Zhukov, N. Perov, "Interaction of bistable glass-coated microwires in different positional relationship", *Physica B* 407 (2012) 1438–1441 doi:10.1016/j.physb.2011.09.043
312. F. X. Qin, H. X. Peng, L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov and J. Gonzalez, "Smart Composites With Short Ferromagnetic Microwires for Microwave Applications", *IEEE Trans. Magn.*, VOL. 47, NO. 10, OCTOBER 2011, 4481-4484
313. V. Zhukova, J. M. Blanco, M. Ipatov and A. Zhukov, "Magnetoelastic Contribution in Domain-Wall Dynamics of Magnetically Bistable Microwires", *IEEE Trans. Magn.*, VOL. 47, NO. 10, OCTOBER 2011, 3783-3787
314. R. Varga, T. Ryba, K. Saksl, V. Zhukova and A. Zhukov, "Fabrication and first characterization of Ni₂MnGa glass-coated microwires", *Key Engineering Materials* Vol. 495 (2012) pp 236-238
315. V. Zhukova, P. Umnov, V. Molokanov, A. N. Shalygin, and A. Zhukov, "Studies of magnetic properties of amorphous microwires produced by combination of by quenching, glass removal and drawing techniques", *Key Engineering Materials* Vol. 495 (2012) pp 280-284
316. V. Zhukova, J. M. Blanco, V. Rodionova, M. Ipatov, and A. Zhukov, "Domain wall propagation in micrometric wires: Limits of single domain wall regime", *J. Appl. Phys.* 111, 07E311 (2012)
317. Yu. P. Sukhorukov, A. V. Telegin, A. B. Granovsky, E. A. Gan'shina, A. Zhukov, J. Gonzalez, G. Herranz, J. M. Caicedo, A. N. Yurasov, V. D. Bessonov, A. R. Kaul', O. Yu. Gorbenko, and I. E. Korsakov, "Magnetorefractive Effect in Manganites with a Colossal Magnetoresistance in the Visible Spectral Region", *Journal of Experimental and Theoretical Physics (JETP)*, 2012, Vol. 114, No. 1, pp. 141–149, Original Russian Text: Yu.P. Sukhorukov, A.V. Telegin, A.B. Granovsky, E.A. Gan'shina, A. Zhukov, J. Gonzalez, G. Herranz, J.M. Caicedo, A.N. Yurasov, V.D. Bessonov, A.R. Kaul', O.Yu. Gorbenko, I.E. Korsakov, 2012, published in *Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki*, 2012, Vol. 141, No. 1, pp. 160–168.
318. A. Zhukov, M. Ipatov, and V. Zhukova, "Giant magneto-impedance effect of thin magnetic wires at elevated frequencies" *J. Appl. Phys.* 111, 07E512 (2012); doi: 10.1063/1.3677826
319. V. Rodionova, M. Ilyn, M. Ipatov, V. Zhukova, N. Perov, and A. Zhukov, "Spectral properties of electromotive force induced by periodic magnetization reversal of arrays of coupled magnetic glass-covered microwires", *J. Appl. Phys.* 111, 07E735 (2012); doi: 10.1063/1.3680529

320. F.X. Qin, H.X. Peng, M.H. Phan, L.V. Panina, M. Ipatov, A. Zhukov, "Effects of wire properties on the field-tunable behaviour of continuous-microwire composites", *Sensors and Actuators A* 178 (2012) 118– 125
321. A. Zhukov, J. M. Blanco, M. Ipatov, V. Rodionova, and V. Zhukova, "Magnetoelastic Effects and Distribution of Defects in Micrometric Amorphous Wires" *IEEE Transactions on Magnetism*, Volume: 48, Issue: 4, (2012) 1324-1326,
322. K. Richter, R. Varga, J. Kováč, and A. Zhukov, "Controlling the Domain Wall Dynamics by Induced Anisotropies", *IEEE Transactions on Magnetism*, Volume: 48, Issue: 4, (2012) 1266-1228,
323. R. VARGA, T. RYBA, K. SAKSL, V. ZHUKOVA, J. GONZALEZ, A. ZHUKOV, "Studies of magnetic and structural properties of Ni-Mn-Ga Heusler-type microwires", *J.OPTOELECTRONICS AND ADVANCED MATERIALS* Vol. 14, No. 3-4, March – April 2012, p. 257 – 261
324. A. Zhukov, M. Ipatov, V. Zhukova, "Thin magnetic wires for GMI applications", *J.OPTOELECTRONICS AND ADVANCED MATERIALS* Vol. 14, No. 3-4, March – April 2012, p. 309 – 316
325. I. Dubenko, T. Samanta, A. Quetz, A. Kazakov, I. Rodionov, D. Mettus, V. Prudnikov, Sh. Stadler, Ph. Adams, J. Prestigiacomo, A. Granovsky, A. Zhukov, and N. Ali, "The comparison of direct and indirect methods for determining the magnetocaloric parameters in the Heusler alloy Ni₅₀Mn_{34.8}In_{14.2}B", *Appl. Phys. Lett.* 100, 192402 (2012); doi: 10.1063/1.4714539
326. B. K. Ponomarev and A. Zhukov, "Magnetic and Magnetolectric Properties of Rare Earth Molybdates" (Review Article), *Hindawi Publishing Corporation, Physics Research International*, Volume 2012, Article ID 276348, 22 pages, doi:10.1155/2012/276348
327. K Richter, R Varga and A Zhukov, "Influence of the magnetoelastic anisotropy on the domain wall dynamics in bistable amorphous wires", *J. Phys. C: Condens. Matter* 24 (2012) 296003
328. A. Chizhik, A. Zhukov, J.M. Blanco, J. Gonzalez, "Magneto-optical study of domain wall dynamics and giant Barkhausen jump in magnetic microwires", *J. Magn. Magn. Mater.* 324 (2012) 3563–3565
329. I. Dubenko, T. Samanta, A. K. Pathak, A. Kazakov, V. Prudnikov, Sh. Stadler, A. Granovsky, A. Zhukov, N. Ali, "Magnetocaloric effect and multifunctional properties of Ni–Mn-based Heusler alloys", *J. Magn. Magn. Mater.* 324 (2012) 3530–3534
330. A. Novikov, E. Gan'shina, A. Granovsky, A. Zhukov and V. Chernenko, "MAGNETO-OPTICAL SPECTROSCOPY OF HEUSLER ALLOYS: BULK SAMPLES, THIN FILMS AND MICROWIRES", *Solid State Phenomena* Vol. 190 (2012) pp 335-338
331. R. Varga, P. Klein, K. Richter, A. Zhukov, M. Vazquez, "Fast domain wall dynamics in amorphous and nanocrystalline magnetic microwires", *J. Magn. Magn. Mater.* 324 (2012) 3566–3568
332. A. Zhukov, M. Ipatov, J.M. Blanco and V. Zhukova, "GMI Effect of Ultra-Soft Magnetic Soft Amorphous Microwires", *The Open Materials Science Journal*, 6 (2012), pp. 39-43, DOI: 10.2174/1874088X01206010039
333. M. Ipatov, V. Zhukova, J. Gonzalez, A. Zhukov, "Manipulating the magnetoimpedance by dc bias current in amorphous microwire", *J. Magn. Magn. Mater.* 324 (2012) 4078–4083, DOI /10.1016/j.jmmm.2012.07.024

334. M. Ipatov, V. Zhukova, J. M. Blanco, A. Zhukov, and J. Gonzalez, "1D and 2D position detection using magnetoimpedance sensor array" *Phys. Status Solidi A*, 209, No. 12 (2012) 2626–2629 / DOI 10.1002/pssa.201228358
335. A. Zhukov, J. M. Blanco, M. Ipatov, A. Chizhik and V. Zhukova, "Manipulation of domain wall dynamics in amorphous microwires through the magnetoelastic anisotropy", *Nanoscale Research Letters*, 7 (2012) 223, doi:10.1186/1556-276X-7-223
336. A. Kazakov, V. Prudnikov, A. Granovsky, N. Perov, I. Dubenko, A. K. Pathak, T. Samanta, Sh. Stadler, N. Ali, A. Zhukov, M. Ilyin, and J. Gonzalez, "Phase Transitions, Magnetotransport and Magnetocaloric Effects in a New Family of Quaternary Ni-Mn-In-Z Heusler Alloys", *J. Nanosci. Nanotechnol.* 12(2012)7426-7431, DOI: <http://dx.doi.org/10.1166/jnn.2012.6542>
337. A. Zhukov, J. M. Blanco, M. Ipatov, and V. Zhukova, "Magnetoelastic Contribution in Domain Wall Propagation of Micrometric Wires", *J. Nanosci. Nanotechnol.*, 12 (2012) 7582-7586, DOI: <http://dx.doi.org/10.1166/jnn.2012.6550>
338. M. Churyukanova, V. Zhukova, S. Kaloshkin, A. Zhukov, "Effect of magnetoelastic anisotropy on properties of Finemet-type microwires", *J. Alloys and Compounds* 536S (2012) S291– S295, doi:10.1016/j.jallcom.2011.10.068
339. V. Zhukova, P. Umnov, V. Molokanov, A. N. Shalygin, and A. Zhukov, "Magnetic Properties and Giant Magneto-Impedance Effect of Ductile Amorphous Microwires Without Glass Coating", *Sensor Lett.* 10, No 3/4 (2012) 712-716, <http://dx.doi.org/10.1166/sl.2012.2591>
340. J. Devkota, A. Ruiz, P. Mukherjee, H. Srikanth, M.H. Phan, A. Zhukov, V.S. Lari, «Magneto-resistance, magneto-reactance, and magneto-impedance effects in single and multi-wire systems», *J. Alloys and Compounds* 549 (2013) 295–302
341. M. Ilyn, V. Zhukova, C. Garcia, JJ. del Val, M. Ipatov, A. Granovsky and A. Zhukov, "Kondo Effect and Magnetotransport Properties in Co-Cu Microwires ", *IEEE Trans. Magn.* Volume: 48 , Issue: 11 (2012), 3532 – 3535, DOI: 10.1109/TMAG.2012.2205907
342. V. Zhukova, P. Umnov, V. Molokanov, A. Shalygin, A. Talaat, A. Zhukov, "Magnetic Properties and GMI Effect of Ductile Amorphous Microwires", *IEEE Trans. Magn.* Volume: 48 , Issue: 11 (2012), p. 4034 – 4037, DOI: 10.1109/TMAG.2012.2198204
343. L. Gonzalez, J. Bonastre, T. Sanchez, J.D. Santos, M.L. Sanchez, A. Chizhik, L. Dominguez, M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, J.J. Sunol, B. Hernando, "Magnetoimpedance Response in Co-Based Amorphous Ribbons Obtained Under the Action of a Magnetic Field", *IEEE Trans. Magn.* Volume: 48 , Issue: 11 (2012), p. 4375 – 4377, DOI: 10.1109/TMAG.2012.2198623
344. A. Chizhik, A. Stupakiewicz, A. Zhukov, A. Maziewski, J. Gonzalez, "High-Frequency Electric Current Influence on Magnetization Reversal and Domain Structure in Co-Rich Amorphous Microwires", *IEEE Trans. Magn.* Volume: 48 , Issue: 11 (2012), p. 3800 – 3802, DOI: 10.1109/TMAG.2012.2196981
345. I. Dubenko, T. Samanta, A. Quetz, A. Kazakov, I. Rodionov, D. Mettus, V. Prudnikov, S. Stadler, P.W. Adams, J. Prestigiacomo, A. Granovsky, A. Zhukov, N. Ali, "The Adiabatic Temperature Changes in the Vicinity of the First-Order Paramagnetic-Ferromagnetic Transition in the Ni-Mn-In-B Heusler Alloy", *IEEE Trans. Magn.* Volume: 48 , Issue: 11 (2012), p. 3738 - 3741, DOI: 10.1109/TMAG.2012.2197596
346. R. Varga, J. Gamcova, P. Klein, J. Kovac and A. Zhukov, "Tailoring the Switching Field Dependence on External Parameters in Magnetic Microwires",

- IEEE Trans. Magn. Vol. 49 , Issue: 1 (2013), p. 30-33, doi: 10.1109/TMAG.2012.2218224
347. D. Praslička, J. Blažek, M. Šmelko, J. Hudák, A. Čverha, I. Mikita, R. Varga and A. Zhukov, "Possibilities of Measuring Stress and Health Monitoring in Materials Using Contact-Less Sensor Based on Magnetic Microwires", IEEE Trans. Magn. Vol. 49 , Issue: 1 (2013), p. 128-131, doi: 10.1109/TMAG.2012.2219854
 348. T. Ryba, Z. Vargova, R. Varga , V. Zhukova , and A. Zhukov, "The Magnetocaloric Effect of Heusler Microwires in Low and High Magnetic Fields", IEEE Trans. Magn. Vol. 49 , Issue: 1 (2013), p. 54-57, doi: 10.1109/TMAG.2012.2218225
 349. A.B. Granovskii, A. V. Prudnikov, A.P. Kazakov, A.P. Zhukov, I.S. Dubenko, "Determination of the normal and anomalous hall effect coefficients in ferromagnetic Ni₅₀Mn₃₅In_{15-x} Si (x) Heusler alloys at the martensitic transformation", JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS Volume: 115 Issue: 5 (2012) Pages: 805-814 DOI: 10.1134/S1063776112090051
 350. A. Chizhik, J.M. Blanco, M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, "Domain walls collision in Fe-rich and Co-rich glass covered microwires", EPJ Web of Conferences 40, 17004 (2013)
 351. A. Zhukov, M. Churyukanova, L. Gonzalez-Legarreta, A. Talaat, V. Zhukova, B. Hernando, M. Ilyn, J. Gonzalez and S. Kaloshkin, "Influence of Magnetoelastic Anisotropy on Properties of Nanostructured Microwires" Advanced Materials Research Vol. 646 (2013) pp 59-66, 10.4028/www.scientific.net/AMR.646.59
 352. L. González-Legarreta, V. M. Prida, B. Hernando, M. Ipatov, V. Zhukova, A.P. Zhukov, L. Domínguez and J. González "Recent Research on the Magnetoimpedance Effect in Co-based Amorphous Ribbons", Advanced Materials Research Vol. 646 (2013) pp 222-227 doi:10.4028/www.scientific.net/AMR.646.222
 353. M. Ipatov, L. González-Legarreta, J. Garcia, A. Chizhik, L. Domínguez, V. Zhukova, A. Zhukov, B. Hernando, and J. González, "Induced Giant Magnetoimpedance Effect by Current Annealing in Ultra Thin Co-Based Amorphous Ribbons", IEEE Trans. Magn. Vol. 49 , NO. 3, MARCH 2013, 1009-1012 doi: 10.1109/TMAG.2012.2228473
 354. L. González-Legarreta, V.M. Prida, B. Hernando, M. Ipatov, V. Zhukova, A. Zhukov, and J. González, "Magnetoimpedance dependence on width in Co_{66.5}Fe_{3.5}Si_{12.0}B_{18.0} amorphous alloy ribbons", J. Appl. Phys. 113, Issue 5 (2013), 053905 DOI: 10.1063/1.4790480
 355. K. Chichay, V. Zhukova, V. Rodionova, M. Ipatov, A. Talaat, J. M. Blanco, J. Gonzalez and A. Zhukov, "Tailoring of domain wall dynamics in amorphous microwires by annealing", J. Appl. Phys. 113, 17A318 (2013), DOI: <http://dx.doi.org/10.1063/1.4795617>
 356. J. Olivera, R. Varga, J. Anaya, A. Zhukov, "Stress dependence of Switching Field during the devitrification of Finemet-based magnetic microwires", Key Engineering Materials Vol. 543 (2013) pp 495-498, doi: 10.4028/www.scientific.net/KEM.543.495
 357. J. M. Blanco, A. Chizhik, M. Ipatov, V. Zhukova, J. Gonzalez, A. Talaat, V. Rodionova, A. Zhukov, "Manipulation of domain wall dynamics in microwires by transverse magnetic field", Journal of the Korean Physical Society May 2013, Volume 62, Issue 10, pp 1363-1367, doi: 10.3938/jkps.62.1363

358. A. Zhukov, M. Ipatov, A. Talaat, V. Zhukova, C. Garcia, "GMI effect of amorphous microwires with enhanced magnetic softness", GMI effect of amorphous microwires with enhanced magnetic softness", *Journal of the Korean Physical Society* May 2013, Volume 62, Issue 10, pp 1382-1387, doi 10.3938/jkps.62.138
359. A. Chizhik, V. Zablotskii, A. Stupakiewicz, A. Dejneka, T. Polyakova, M. Tekielak, A. Maziewski, A. Zhukov, and J. Gonzalez, "Circular domains nucleation in magnetic microwires", *Appl. Phys. Lett.* 102, 202406 (2013); doi: 10.1063/1.4807595
360. V. Zhukova, J.M. Blanco, V. Rodionova, M. Ipatov, A. Zhukov, "Fast magnetization switching in Fe-rich amorphous microwires: Effect of magnetoelastic anisotropy and role of defects", *J. Alloys Comp* 586 (SUPPL. 1) , (2014), pp. S287-S290, doi <http://dx.doi.org/10.1016/j.jallcom.2012.09.039>
361. A. Zhukov, V. Rodionova, M. Ilyn, A.M. Aliev, R. Varga, S. Michalik, A. Aronin, G. Abrosimova, A. Kiselev, M. Ipatov, V. Zhukova, "Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires", *Journal of Alloys and Compounds* 575 (2013) 73–79, <http://dx.doi.org/10.1016/j.jallcom.2013.04.083>
362. J. M. Blanco, V. Zhukova, M. Ipatov, and A. Zhukov "Magnetic properties and domain wall propagation in micrometric amorphous microwires", *Sensor Letters* 11 (1) (2013), pp. 187-190, **DOI:** 10.1166/sl.2013.2782
363. V. Rodionova, M. Ilyn, M. Ipatov, V. Zhukova, N. Perov, J. Gonzalez and A. Zhukov, "Spectral characteristics of the arrays of magnetically coupled glass-covered microwires", *Sensor Letters* 11 (1) (2013) , pp. 115-118, **DOI:** 10.1166/sl.2013.2811
364. V. Zhukova, A.M. Aliev, R. Varga, A. Aronin, G. Abrosimova, A. Kiselev, A. Zhukov, "Magnetic Properties and MCE in Heusler-Type Glass-Coated Microwires", *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM* Volume: 26 Issue: 4 Special Issue: SI (2013) Pages: 1415-1419 DOI: 10.1007/s10948-012-1978-2
365. V. Zhukova, J. J. del Val, M. Ilyn and M. Ipatov, R. Varga, C. Garcia, A. Zhukov, "GMR Effect in Co-Cu Microwires", *Journal of the Korean Physical Society*, No. 62, July 2013, pp. 1940-1944, (DOI) 10.3938/jkps.62.1940
366. A. Zhukov, J. M. Blanco, A. Chizhik, M. Ipatov, V. Rodionova, and V. Zhukova "Manipulation of domain wall dynamics in amorphous microwires through domain wall collision", *J. Appl. Phys.* 114, 043910 (2013); doi: 10.1063/1.4816560
367. P. Gawroński, V. Zhukova, A. Zhukov, and J. Gonzalez, "Manipulation of domain propagation dynamics with the magnetostatic interaction in a pair of Fe-rich amorphous microwires" *J. Appl. Phys.* 114, 043903 (2013); doi: 10.1063/1.4816271
368. M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez "Expanding the longitudinal magnetoimpedance sensor range by direct bias current", *J. Appl. Phys.* 113, 203902 (2013); doi: 10.1063/1.4807296
369. A.S. Aronin, G.E. Abrosimova, A.P. Kiselev, V. Zhukova, R. Varga, A. Zhukov, "The effect of mechanical stress on Ni_{63.8}Mn_{11.1}Ga_{25.1} microwire crystalline structure and properties", *Intermetallics* 43 (2013) 60-64, <http://dx.doi.org/10.1016/j.intermet.2013.07.010>
370. A. Chizhik, A. Zhukov, J. Gonzalez, "Magnetic properties of sub-micrometric Fe-rich wires", *Thin Solid Films* 543 (2013) 130–132, **DOI:** 10.1016/j.tsf.2013.01.060

371. V. Zhukova, C. Garcia, J.J. del Val, M. Ilyn, A. Granovsky, A. Zhukov, "Magnetic and transport properties of Co–Cu microwires with granular structure", *Thin Solid Films* 543 (2013) 142–147, DOI: 10.1016/j.tsf.2013.01.039
372. V.V.Tcherdyntsev, A.A. Aleev, M.N. Churyukanova, S.D. Kaloshkin, E.V. Medvedeva, O.A. Korchuganova, V. Zhukova and A.P. Zhukov, "Structural and phase transformations in the low-temperature annealed amorphous "finemet"-type microwires", *J. Alloys Compounds*, Vol. 586, Issue SUPPL. 1, 2014, Pages S225-S230
373. V. Rodionova, M. Ilyn, A. Granovsky, N. Perov, V. Zhukova, G. Abrosimova, A. Aronin, A. Kiselev, and A. Zhukov, "Internal stress induced texture in Ni-Mn-Ga based glass-covered microwires", *J. Appl. Phys.* 114 (2013) 123914; doi: 10.1063/1.4822168
374. A. Zhukov, E. Kostitcyna, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, V. Sudarchikova, A. Talaat, V. Zhukova, "Effect of composite origin on magnetic properties of glass-coated microwires", *Intermetallics* 44 (2014) 88- 93, **DOI:** 10.1016/j.intermet.2013.08.014
375. Y. Luo, H. X. Peng, F. X. Qin, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, "Fe-based ferromagnetic microwires enabled meta-composites", *Appl. Phys. Lett.* 103, 251902 (2013); doi: 10.1063/1.4850196
376. V. Zhukova, J.M. Blanco, M. Ipatov, M. Churyukanova, S.Kaloshkin and A. Zhukov, "Manipulation of fast magnetization switching in magnetically bistable microwires through the magnetoelastic anisotropy", *J. Magn. Soc. Jpn.* vol. 37 (2013) pp. 161-165, DOI: <http://dx.doi.org/10.3379/msjmag.1303R018>
377. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, L. Gonzalez-Legarreta, B. Hernando, J. J. del Val, J. Gonzalez, and A. Zhukov, "Optimization of the giant magnetoimpedance effect of Finemet-type microwires through the nanocrystallization", *J. Appl. Phys.* 115, 17A313 (2014)
378. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov, and V. Zhukova, "Influence of the defects on magnetic properties of glass-coated microwires", *J. Appl. Phys.* 115, 17A305 (2014); doi: 10.1063/1.4860015
379. V. Zhukova, J. M. Blanco, M. Ipatov, and A. Zhukov, "Magnetic properties and domain wall propagation in FeNiSiB glass-coated microwires", *J. Appl. Phys* 115, 17A309 (2014); doi: 10.1063/1.4862717
380. V. Zhukova, M. Ipatov, A. Granovsky, and A. Zhukov, "Magnetic properties of Ni-Mn-In-Co Heusler-type glass-coated microwires" *J. Appl. Phys.* 115, 17A939 (2014); doi: 10.1063/1.4868919
381. J. Gonzalez, M. Vazquez, and A.P.Zhukov, "Tailoring of magnetic properties of glass-coated microwires" *Bulletin of the Russian Academy of Sciences. Physics*, **V. 65 No: 10 Pp:** 1620-1628 (2001), *Izvestiya Rossiiskoi Akademii Nauk. Seriya Fizicheskaya*, **V: 65 , No: 10 pp.** 1492-1498 (2001)
382. A. Chizhik, A. Stupakiewicz, A. Zhukov, A. Maziewski, J. Gonzalez, "Experimental demonstration of basic mechanisms of magnetization reversal in magnetic microwires", *Physica B* 435(2014)125–128, DOI <http://dx.doi.org/10.1016/j.physb.2013.09.046>
383. Y. Luo, H. X. Peng, F. X. Qin, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, "Metacomposite characteristics and their influential factors of polymer composites containing orthogonal ferromagnetic microwire arrays", *J. Appl. Phys.* 115, 173909 (2014); doi: 10.1063/1.4874176

384. A. Talaat, V. Zhukova, M. Ipatov, J.J. del Val, L. Gonzalez-Legarreta, B. Hernando, J.M. Blanco, A. Zhukov, "Effect of nanocrystallization on giant magnetoimpedance effect of Febased microwires", *Intermetallics* 51 (2014) 59-63, <http://dx.doi.org/10.1016/j.intermet.2014.03.005>
385. A. Talaat, M. Ipatov, V. Zhukova, A. P. Zhukov, J. Gonzalez, L. Gonzalez-Legarreta, V. M. Prida, and B. Hernando "High frequency magnetoimpedance response of stress annealed Co_{66.3}Fe_{3.7}Si_{12.0}B_{18.0} amorphous alloy ribbons", *J. Appl. Phys.* 114, 023904 (2013); doi: 10.1063/1.4813101
386. A.I. Novikov, I.S. Dubenko, A.I. Grunin, A.Yu. Goikhman, P. A. Ershov, V.V. Rodionova, E.A. Ganshina, A. Zhukov, V. Zhukova, A.B. Granovskii, "Magnetic and magneto-optic properties of Ni-Mn-In Heusler alloy films obtained by pulse laser deposition", *Materials Science*, 7 Pp. 11-14 2013 (ISSN:1684-579X)
387. V. Zhukova, M. Ipatov, A. Talaat and A. Zhukov, "Hopkinson effect in Co-rich glass-coated microwires ", *Phys. Status Solidi C* 11, No. 5–6, 1130–1132 (2014) / DOI 10.1002/pssc.201300715
388. A. Talaat, M. Ipatov, V. Zhukova, J. M. Blanco, M. Churyukanova, S. Kaloshkin, and A. Zhukov, "Giant magneto-impedance effect in thin Finemet nanocrystalline microwires", *Phys. Status Solidi C* 11, No. 5–6, 1120–1124 (2014) / DOI 10.1002/pssc.201300708
389. A. Talaat, M. Ipatov, V. Zhukova, J. M. Blanco, and A. Zhukov, "Manipulation of magnetic and magneto-transport properties of amorphous glass-coated microwires through various annealing processes", *Phys. Status Solidi C* 11, No. 5–6, 1125–1129 (2014) / DOI 10.1002/pssc.201300709
390. F. X. Qin, Y. Luo, H. X. Peng, J. Tang, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, "The left-hand behaviour of polymer composites with Fe-based microwires", *Phys. Status Solidi C* 11, No. 5–6, 1086–1088 (2014) / DOI 10.1002/pssc.201300561
391. A. Zhukov, *Nanoscaled Magnetism and Applications*(preface), *Phys. Status Solidi C* 11, No. 5–6, 965– 967 (2014) / DOI 10.1002/pssc.201470052
392. A. Zhukov, M. Ipatov, A. Talaat, M. Churyukanova, S. Kaloshkin and V. Zhukova, "Giant magnetoimpedance in thin amorphous and nanocrystalline microwires", *Applied Physics A: Materials Science and Processing*, 115 (2014) 547–553, DOI 10.1007/s00339-013-8028-1
393. Y. Luo, H.X. Peng, F.X. Qin, M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, Dual-band metacomposites containing hybrid Fe and Co-based ferromagnetic microwires, arXiv:1405.0479 [cond-mat.mtrl-sci]
394. V. Zhukova, A. Talaat, M. Ipatov, J. M. Blanco, M-H. Phan and A. P. Zhukov, "Effect of Annealing on Magnetic Properties and Giant Magnetoimpedance Effect of Amorphous Microwires", *IEEE Trans. Magn.*, VOL. 50, NO. 6, JUNE 2014, 2005004, DOI: 10.1109/TMAG.2014.2304777
395. A. Zhukov, A. Talaat, M. Ipatov, J.M. Blanco, V. Zhukova, "Tailoring of magnetic properties and GMI effect of Co-rich amorphous microwires by heat treatment", *J. Alloys Compounds* 615 (2014) 610–615, DOI: <http://dx.doi.org/10.1016/j.jallcom.2014.07.079>
396. A. Talaat, V. Zhukova, M. Ipatov, J.M. Blanco, M. Churyukanova, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, L. Gonzalez-Legarreta, B. Hernando and A. Zhukov, "Magnetic properties and giant magnetoimpedance in amorphous and nanocrystalline microwires", *ACTA PHYSICA POLONICA A* Vol. 126 No.1 (2014) pp.146-147, DOI: 10.12693/APhysPolA.126.146

397. K. Chichay, V. Rodionova, V. Zhukova, M. Ipatov, A. Zhukov, "Manipulation of magnetic properties and domain wall dynamics in amorphous ferromagnetic microwires by annealing under applied stress", *Solid State Phenomena* Vol. 215 (2014) pp 432-436, DOI: 10.4028/www.scientific.net/SSP.215.432
398. T. Ryba, Z. Vargova, R. Varga, J. Kovác, V. Zhukova, A. Zhukov, "Magnetic Characterization of Co₂MnSi Heusler Microwires", *ACTA PHYSICA POLONICA A* Vol. 126 No.1 (2014) pp.196-197, DOI: 10.12693/APhysPolA.126.196
399. A. Chizhik, M. Ipatov, A. Stupakiewicz, A. Zhukov, A. Maziewski, and J. Gonzalez "GHz magnetic field influence on magnetization reversal in amorphous microwires", *Physica Status Solidi (C)*, Volume 11, Issue 5-6, May 2014, Pages 986-988, DOI: 10.1002/pssc.201300748
400. A. Zhukov, A. Talaat, M. Ipatov, J. J. del Val, L. Gonzalez-Legarreta, B. Hernando and V. Zhukova, "Effect of nanocrystallization on magnetic properties and GMI effect of Fe-rich microwires", *Journal of ELECTRONIC MATERIALS*, Vol. 43, No. 12 (2014) pp. 4540-4547, DOI: 10.1007/s11664-014-3370-4
401. M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, Magnetoimpedance hysteresis in amorphous microwires induced by core-shell interaction, *Appl. Phys. Lett.* 105, 122401 (2014); doi: 10.1063/1.4896322
402. M. Churyukanova, V. Zhukova, A. Talaat, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, S. Gudoshnikov, V. Sudarchikova, A. Zhukov, "Correlation between thermal and magnetic properties of glass coated microwires", *J. Alloys and Compounds* 615 (2014), pp. S242-S246, DOI: 10.1016/j.jallcom.2013.11.191
403. M. Churyukanova, V. Zhukova, A. Talaat, J.J. del Val, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, V. Sudarchikova, A. Zhukov, "Studies of thermal and magnetic properties of Fe-based amorphous and nanocrystalline glass coated microwires" , *J. Alloys and Compounds*, 615, (2014), S256-S260, DOI: <http://10.1016/j.jallcom.2013.12.030>
404. A. Chizhik, A. Stupakiewicz, A. Zhukov, A. Maziewski, J. Gonzalez, "Transformation of magnetic domain structure in Co- and Fe-rich amorphous microwires" *J. Alloys and Compounds* 615 (2014) S304-S307, DOI: <http://dx.doi.org/10.1016/j.jallcom.2014.01.226>
405. A. Stupakiewicz, A. Chizhik, M. Tekielak, A. Zhukov, J. Gonzalez, and A. Maziewski, "Direct imaging of the magnetization reversal in microwires using all-MOKE microscopy", *Review of Scientific Instruments* 85, 103702 (2014); doi: 10.1063/1.4896758
406. A. Zhukov, A. Talaat, M. Ipatov, V. Zhukova, "High Frequency Giant Magnetoimpedance Effect of amorphous microwires for magnetic sensors applications", *International Journal on Smart Sensing and Intelligent Systems*, (2014) *Proceedings of the 8th International Conference on Sensing Technology*, Sep. 2-4, 2014, Liverpool, UK, pp.624-629
407. V. Zhukova J. J. del Val, M. Ipatov, M. Ilyn , A. Granovsky and A. Zhukov "Magnetic and Transport properties of Co-Cu Microwires", *International Journal on Smart Sensing and Intelligent Systems*, (2014) *Proceedings of the 8th International Conference on Sensing Technology*, Sep. 2-4, 2014, Liverpool, UK, pp.332-337
408. A. Chizhik, J. Gonzalez ,A. Zhukov, A. Stupakiewicz, A. Maziewski "Magneto-optical study of microwire in presence of magnetic field of super high frequency Glass Coated Microwires for Sensor Application" , *International Journal on Smart Sensing and Intelligent Systems*, (2014) *Proceedings of the 8th International Conference on Sensing Technology*, Sep. 2-4, 2014, Liverpool, UK, pp.630-633

409. J. Olivera, M. González, J. V. Fuente, R. Varga, A. Zhukov and J. J. Anaya, "An Embedded Stress Sensor for Concrete SHM Based on Amorphous Ferromagnetic Microwires", *Sensors*, 14 (2014) 19963-19978; doi:10.3390/s141119963
410. A. Chizhik, J. Gonzalez, A. Zhukov, A. Stupakiewicz, A. Maziewski, "Influence of Magnetic Field of Super High Frequency on Hysteretic Properties of Soft Magnetic Microwires", *Advances in Science and Technology* Vol. 93 (2014) pp 203-207, doi:10.4028/www.scientific.net/AST.93.203
411. K. Chichay, V. Rodionova, V. Zhukova, S. Kaloshkin, M. Churyuknova, and A. Zhukov, "Investigation of the magnetostriction coefficient of amorphous ferromagnetic glass coated microwires", *J. Appl. Phys.* 116, 173904 (2014); doi: 10.1063/1.4900481
412. A. Chizhik, A. Stupakiewicz, A. P. Zhukov, A. Maziewski, J. Gonzalez and V. Zablotskii, "Manipulation of Magnetic Domain Structures With Helical Magnetization in Magnetic Microwires", *IEEE Trans. Magn.* Vol. 50, No. 11, NOVEMBER 2014, 2005903, doi: 10.1109/TMAG.2014.2328662
413. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco and V. Zhukova, "Effect of Annealing on Off-Diagonal GMI Effect of Co-Rich Amorphous Microwires", *IEEE Trans. Magn.* Vol. 50, No. 11, NOVEMBER 2014, 2006504, doi: 10.1109/TMAG.2014.2318082
414. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitsyna, A. Talaat, M. Ipatov, J. Gonzalez, and V. Zhukova "Studies of the Defects Influence on Magnetic Properties of Glass-Coated Microwires", *IEEE Trans. Magn.* Vol. 50, No. 11, NOVEMBER 2014, 2006604, doi: 10.1109/TMAG.2014.2330201
415. V. Zhukova, V. Rodionova, L. Fetisov, A. Grunin, A. Goikhman, A. Torcunov, A. Aronin, G. Abrosimova, A. Kiselev, N. Perov, A. Granovsky, T. Ryba, S. Michalik, R. Varga, and A. Zhukov "Magnetic Properties of Heusler-Type Microwires and Thin Films", *IEEE Trans. Magn.* Vol. 50, No. 11, NOVEMBER 2014, 2505504, doi: 10.1109/TMAG.2014.2324494
416. A. Talaat, J. M. Blanco, M. Ipatov, V. Zhukova, and A. P. Zhukov, "Domain Wall Propagation in Co-Based Glass-Coated Microwires: Effect of Stress Annealing and Tensile Applied Stresses" *IEEE Trans. Magn.* Vol. 50, No. 11, NOVEMBER 2014, 2005704, doi: 10.1109/TMAG.2014.2321114
417. A. Talaat, P. Klein, V. Zhukova, R. Varga, and A. Zhukov, "Influence of stress relaxation on the magnetization process of Hitperm-type glass-coated microwires", *International Journal of Advanced Applied Physics Research*, 1 (2014), pp 6-13, Doi: <http://dx.doi.org/10.15379/2408-977X.2014.01.02.2>
418. A. Zhukov, A. Chizhik, M. Ipatov, A. Talaat, J. M. Blanco, A. Stupakiewicz and V. Zhukova, "Giant magnetoimpedance effect and domain wall dynamics in Co-rich amorphous microwires", *J. Appl. Phys.* 117 (2015) 043904; <http://dx.doi.org/10.1063/1.4906503>
419. A. Chizhik, A. Stupakiewicz, V. Zablotskii, M. Tekielak, V. Stupakevich, A. Zhukov, J. Gonzalez, A. Maziewski, "Transformation of magnetic structure in amorphous microwires induced by temperature and high frequency magnetic field", *J. Alloys Compoun* 632 (2015) 520-527, DOI: <http://dx.doi.org/10.1016/j.jallcom.2015.01.239>
420. S. Shevyrtalov, K. Chichay, P. Ershov, V. Khovaylo, A. Zhukov, V. Zhukova and V. Rodionova, Temperature dependent magnetic and structural properties of Ni-Mn-Ga Heusler alloy glass-coated microwires, *Acta Physica Polonica A*, vol. 127, No. 2, p. 603-605, 2015, 10.12693/APhysPolA.127.603

421. A. Zhukov, A. Talaat, M. Ipatov, and V. Zhukova, "Tailoring the high-frequency giant magnetoimpedance effect of amorphous Co-rich microwires," *IEEE Magn. Lett.*, vol. 6, 2015, Art. ID 2500104, 10.1109/LMAG.2015.2397877
422. R. Fuente, S. Rodríguez, A. Mendioroz, A. Salazar, A. Zhukov, V. Zhukova, "Thermal Conductivity and Diffusivity Measurements of Glass-Coated Magnetic Microwires Using Lock-in Thermography" *Intl. J Thermophys* (2015) 36:1137–1141, DOI 10.1007/s10765-014-1615-3
423. K. Chichay, V. Rodionova, M. Ipatov, V. Zhukova and A. Zhukov, "Manipulation of magnetic properties and domain wall dynamics of amorphous ferromagnetic Co_{68.7}Fe₄Ni₁B₁₃Si₁₁Mo_{2.3} microwire by changing of annealing temperature", *Solid State Phenomena Vols 233-234* (2015) pp 269-272 doi:10.4028/www.scientific.net/SSP.233-234.269
424. S. Gudoshnikov, M. Churyukanova, S. Kaloshkin, A. Zhukov, V. Zhukova, N.A. Usov, "Investigation of the properties of Co-rich amorphous ferromagnetic microwires by means of small angle magnetization rotation method", *J. MAGN. MAGN. MATER.*, Vol: 387 (2015) pp. 53-57, DOI: 10.1016/j.jmmm.2015.03.079
425. V. Zhukova, A. Talaat, M. Ipatov, J. J. del Val, J. M. Blanco, L. Gonzalez-Legarreta, B. Hernando, R. Varga, P. Klein and A. Zhukov, "Optimization of Soft Magnetic Properties in Nanocrystalline Fe-Rich Glass-Coated Microwires", *JOM*, V. 67, N 9, (2015) pp. 2108-2116, DOI: 10.1007/s11837-015-1546-x
426. V. Zhukova, M. Ipatov, A. Aronin, G. Abrosimova, A. Kiselev and A. Zhukov, "Tuning of Magnetic Properties of Ni-Mn-In-Co Heusler-Type Glass-Coated Microwires", *JOM*, V. 67, N 9, (2015) pp. 2117-2122, DOI: 10.1007/s11837-015-1526-1
427. A. Zhukov, M. Churyukanova, S. Kaloshkin, V. Semenkova, S. Gudoshnikov, M. Ipatov, A. Talaat, J.M. Blanco, V. Zhukova, "Effect of annealing on magnetic properties and magnetostriction coefficient of Fe Ni-based amorphous microwires", *J. Alloys and Compounds* 651 (2015) 718-723, DOI: <http://dx.doi.org/10.1016/j.jallcom.2015.08.151>
428. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, P. Klein, R. Varga, L. Gonzalez-Legarreta, B. Hernando, and A. Zhukov, "Magnetic Properties of Nanocrystalline Microwires", *J. Electr. Mater.* (2016) 45(1), 212-218, DOI: 10.1007/s11664-015-3966-3
429. M. Churyukanova, V. Semenkova, S. Kaloshkin, E. Shuvaeva, S. Gudoshnikov, V. Zhukova, I. Shchetinin, and A. Zhukov, "Magnetostriction investigation of soft magnetic microwires" *Phys. Status Solidi A*, **Volume 213, Issue 2**, (2016) p. 363–367, / DOI 10.1002/pssa.201532552
430. A. Chizhik, A. Stupakiewicz, A. Zhukov, J. Gonzalez, On mechanisms of domain switching in amorphous glass-coated wires, *Phys. Status Solidi A*, **Volume 213, Issue 2**, (2016) p. 350–355, Doi: 10.1002/pssa.201532519
431. A. Talaat, J.J. Del Val, V. Zhukova, M. Ipatov, P. Klein, R. Varga, J. Gonzalez, M. Zhdanova, M. Churyukanova and A. Zhukov, "Effect of annealing on magnetic properties of nanocrystalline Hitperm-type glass-coated microwires" *J. Alloys and Compounds* 660 (2016) 297-303, DOI: <http://dx.doi.org/10.1016/j.jallcom.2015.08.151>
432. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco and V. Zhukova, "Studies of High Frequency Giant Magnetoimpedance Effect in Co-rich Amorphous Microwires", *IEEE Trans. Magn.* 51, 11 (2015) 2003904 (4 pp.), DOI: 10.1109/TMAG.2015.2436051

433. V. Zhukova, V. Chernenko, M. Ipatov and A. Zhukov, "Magnetic Properties of Heusler-type NiMnGa Glass-coated Microwires", *IEEE Trans. Magn.* 51, 11 (2015) 501604 (4 pp.) DOI: 10.1109/TMAG.2015.2437278
434. A. Chizhik, A. Stupakiewicz, A. Zhukov, A. Maziewski, J. Gonzalez, "Multidomain structures in magnetic microwire" *IEEE Trans. Magn.* 51, 11 (2015) 2002304 (4 pp.) DOI: 10.1109/TMAG.2015.2428710
435. A.Chizhik, A.Stupakiewicz, A.Maziewski, A.Zhukov, J.Gonzalez, "Heating influence on magnetic structure in Co and Fe rich amorphous microwires", *Journal of Magnetism and Magnetic Materials* 400(2016) 356–360, <http://dx.doi.org/10.1016/j.jmmm.2015.07.049>
436. K. Chichay, V. Rodionova, M. Ipatov, V. Zhukova and A. Zhukov, "Effect of Temperature and Time of Stress Annealing on Magnetic Properties of Amorphous Microwires", *Acta Phys. Polonica A*, 127 (2015) 600-602, DOI: 10.12693/APhysPolA.127.600
437. A. Talaat, J. J. del Val, V. Zhukova, M. Ipatov, P. Klein , R. Varga, J. González, M. Churyukanova and A. Zhukov, Grain size refinement in nanocrystalline Hitperm-type glass-coated microwires, *J.Magn. Magn. Mater.* 406 (2016) 15–21, doi:10.1016/j.jmmm.2015.12.034
438. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, M. Zhdanova, A. Talaat, M. Ipatov, V. Zhukova, "Studies of interfacial layer and its effect on magnetic properties of glass-coated microwires", *Journal of ELECTRONIC MATERIALS*, V. 45, Issue 5 (2016) pp. 2381-2387, DOI: 10.1007/s11664-015-4319-y
439. A. Zhukov, A. Talaat, M. Churyukanova, S. Kaloshkin, V. Semenkova, M. Ipatov, J.M. Blanco, V. Zhukova, Engineering of magnetic properties and GMI effect in Co-rich amorphous microwires, *J. Alloys and Compounds*, Volume 664, 15 April 2016, Pages 235–241, doi:10.1016/j.jallcom.2015.12.224
440. A. Zhukov, A. Talaat, J. M. Blanco, M. Ipatov, V. Zhukova, Features of Amorphous Microwires With Spontaneous And Induced Magnetic Bistability, *IEEE Trans. Magn.* (2016) Volume: 52 Issue: 5, 2002504, DOI: 10.1109/TMAG.2015.2512907
441. V. Zhukova, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, M. Ipatov, A. Talaat, J.M. Blanco and A. Zhukov, "Optimization of Soft Magnetic Properties in Fe-Ni based Magnetic Microwires", *IEEE Trans. Magn.* (2016) vol. 52, Issue 5, 2002803, DOI: 10.1109/TMAG.2016.2522088
442. N. A. Yudanov, S. A. Evstigneeva, L. V. Panina, A. T. Morchenko, A. Zhukov, and X. H. Peng, "Temperature dependence of the off-diagonal magnetoimpedance in sensor configuration utilizing Co-rich amorphous wires", *Phys. Status Solidi A*, 213, No. 2, 372–376 (2016) / DOI 10.1002/pssa.201532580
443. N. A. Yudanov, A. A. Rudenok, L. V. Panina, A. T. Morchenko, D. P. Makhnovskiy, A. Zhukov, "Multicore Off-Diagonal Magnetoimpedance Sensors Utilising Amorphous Wires" , *Physics Procedia*, Volume 75, 2015, Pages 1419–1426
444. V. Zhukova, A. Talaat, J.J. del Val, M. Ipatov and A. Zhukov, Preparation and Characterization of Fe-Pt and Fe-Pt-(B, Si) Microwires, *IEEE Magn. Lett.*, vol. 7,(2016) 5200704 (4 pp.) , DOI: 10.1109/LMAG.2015.2506549
445. A. Talaat, M. Churyukanova, J. M. Blanco, M. Ipatov, V. Zhukova, A. Zhukov, Simultaneous Detection of Giant Magnetoimpedance and Fast Domain Wall Propagation in Co-Based Glass-Coated Microwires, *IEEE Magn. Lett.*, vol. 7,(2016) 5200604 (4 pp.) DOI: 10.1109/LMAG.2015.2505242

446. V. Zhukova, J. Mino, J.J. Del Val, M. Ipatov, A. Martinez-Amesti, R. Varga, M. Churyukanova, A. Zhukov, "Magnetoresistance and Kondo-like behaviour in Co₅Cu₉₅ microwires", *J. Alloys Compound.* 674 (2016) 266-271, doi: <http://dx.doi.org/10.1016/j.jallcom.2016.03.039>
447. A. Zhukov, A. Talaat, M. Ipatov, J.M. Blanco and V. Zhukova, "Tailoring of Magnetic Properties and Magnetoimpedance Effect in Thin Amorphous Wires", *Acta Phys. Polonica*, Vol. 129 No4 (2016) pp 694-697, DOI: 10.12693/APhysPolA.129.694
448. V. Zhukova, O.A. Korchuganova, A.A. Aleev, , V.V. Tcherdyntsev, M. Churyukanova, E.V. Medvedeva, S. Seils, J. Wagner, M. Ipatov, A. Talaat, J.M. Blanco, S.D. Kaloshkin, A. Aronin, G. Abrosimova and A. Zhukov "Magnetic properties and defects of Fe-Ni based magnetic microwires", *IEEE Trans. Magn.* Volume: 53, **Issue: 1**, J(2017) 2000104 Doi:10.1109/TMAG.2016.2587061
449. M. Ipatov, V. Zhukova, A. Zhukov and J.Gonzalez, Current controlled switching of impedance in magnetic conductor with tilted anisotropy easy axis and its applications. *Sci. Rep.* 6 (2016) 36180; doi: 10.1038/srep36180
450. A. Talaat, J. Alonso, V. Zhukova, E. Garaio, J. A. García, H. Srikanth, M. H. Phan and A. Zhukov," Ferromagnetic glass-coated microwires with good heating properties for magnetic hyperthermia", *Sci. Rep.* 6:39300 (2016) DOI: 10.1038/srep39300
451. Wenfeng Wan, Haojian Lu, V. Zhukova, M.Ipatov, A. Zhukov, and Yajing Shen, "Surface defect detection of magnetic microwires by miniature rotatable robot inside SEM", *AIP Advances* 6, 095309 (2016); doi: 10.1063/1.4962965
452. A. Zhukov, A. Talaat, M. Ipatov, A. Granovsky, V. Zhukova, "Estimation of the frequency and magnetic field dependence of the skin depth in Co-rich magnetic microwires from GMI experiments", *Journal of Science: Advanced Materials and Devices* 1, 388-392 (2016), <http://dx.doi.org/10.1016/j.jsamd.2016.08.002>
453. V. Zhukova, A. Talaat, M. Ipatov, A. Granovsky and A. Zhukov, "Tuning of giant magnetoimpedance effect of amorphous and nanocrystalline microwires", *ADVANCED ELECTROMAGNETICS*, VOL. 5, NO. 3, (2016) pp.63-68, DOI: <http://dx.doi.org/10.7716/aem.v5i3.404>
454. A. Zhukov, A. Talaat, M. Ipatov, A. Granovsky and V. Zhukova, "Frequency and magnetic field dependence of the skin depth in Co-rich soft magnetic microwires", *ADVANCED ELECTROMAGNETICS*, VOL. 5, NO. 3, (2016) pp.39-41, DOI: <http://dx.doi.org/10.7716/aem.v5i3.403>
455. V. Zhukova, J. Mino, J. J. del Val, R. Varga, G. Martinez, M. Baibich, M. Ipatov, and A. Zhukov, "Kondo-like behavior and GMR effect in granular Cu₉₀Co₁₀ microwires", *AIP Advances* 7, 055906 (2017); doi: 10.1063/1.4973291
456. A. Zhukov, J. Mino, J.J. del Val, R. Varga, G. Martinez, M.N. Baibich, M. Ipatov, M. Churyukanova, V. Zhukova, " GMR effect and Kondo-like behaviour in Co-Cu microwires" *Journal of Alloys and Compounds*, 695 (2017) 976–980, <http://dx.doi.org/10.1016/j.jallcom.2016.10.214>
457. V. Zhukova, J. M. Blanco, A. Chizhik, M. Ipatov, and A. Zhukov, Current induced domain wall propagation in Co-rich amorphous microwires, *AIP Advances* 7, 056026 (2017); doi: 10.1063/1.4977495
458. A. Novikov, A. Sokolov, E.A. Gan'shina, Abdiel Quetz, I.S. Dubenko, S. Stadler, N. Ali, I.S. Titov, I.D. Rodionov, E. Lähderanta, A. Zhukov, A.B. Granovsky, R. Sabirianov, "Probing the electronic structure of Ni–Mn–In–Si based Heusler alloys thin films using magneto-optical spectra in martensitic and austenitic phases", *J. Magn. Mater.* Volume 432, 15 June 2017, Pages 455–460

459. V. Zhukova, J. Mino, J. J. Del Val, M. Ipatov, R. Varga, M. N. Baibich, G. Martinez, A. Granovsky, A. Zhukov, "GMR and Kondo Effects in Cu-Co Microwires" *Journal of Superconductivity and Novel Magnetism*, April 2017, Volume 30, Issue 4, pp 1109–1114, DOI: 10.1007/s10948-016-3767-9
460. Y. Luo, F. X. Qin, F. Scarpa, J. Carbonell, M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, L. V. Panina, and H. X. Peng, "Left-handed metacomposites containing carbon fibers and ferromagnetic microwires", *AIP Advances* 7, 056110 (2017); doi: 10.1063/1.4978404
461. Yury Koshkid'ko, Sudip Pandey, Abdiel Quetz, Anil Aryal, Igor Dubenko, Jacek Cwik, Elvina Dilmieva, Alexander Granovsky, E. Lahderanta, A. Zhukov, Shane Stadler, Naushad Ali, "Inverse magnetocaloric effects in metamagnetic Ni-Mn-In-based alloys in high magnetic fields", *J. Alloys Compound.* 695 (2017) 3348-3352, doi: <https://doi.org/10.1016/j.jallcom.2016.12.032>
462. A Chizhik, V Vega, Abd El-Moez A Mohamed, VM Prida, T Sánchez, B Hernando, M Ipatov, V Zhukova, AP Zhukov, A Stupakiewicz, L Domínguez, J González, "Surface magnetic properties and giant magnetoimpedance effect in Co-based amorphous ribbons", *Intermetallics*, Volumen 86 (2017) pp.15-19, DOI: <http://dx.doi.org/10.1016/j.intermet.2017.03.010>
463. V. Zhukova, O.A. Korchuganova, A.A. Aleev, V.V. Tcherdyntsev, M. Churyukanova, E.V. Medvedeva, S. Seils, J. Wagner, M. Ipatov, J.M. Blanco, S.D. Kaloshkin, A. Aronin, G. Abrosimova, N. Orlova and A. Zhukov, "Effect of annealing on magnetic properties and structure of Fe-Ni based magnetic microwires", *J. Magn. Magn Mater.* 433 (2017) 278–284 DOI:0.1016/j.jmmm.2017.03.028
464. V. Zhukova, M. Ipatov, A. Talaat, J.M. Blanco, M. Churyukanova, A. Zhukov, "Effect of stress annealing on magnetic properties and GMI effect of Co- and Fe-rich microwires" *J. Alloys Compound.* 707 (2017) 189-194, DOI: <http://dx.doi.org/10.1016/j.jallcom.2016.10.178>
465. A. Chizhik, A. Zhukov, J. Gonzalez and A. Stupakiewicz, "MOKE Study of Amorphous Microwires for Temperature Sensors", *IEEE Transactions on Magnetism*, Volumen: 53, Número: 4 (2017) P: 2000304 (4 pp.), DOI: 10.1109/TMAG.2016.2616586
466. L. Galdun, T. Ryba, V.M. Prida, B. Hernando, V. Zhukova, A. Zhukov, Z. Vargová and R. Varga, "Ni₂FeSi Heusler Glass Coated Microwires" *Acta Phys. Polonica A* Vol. 131 (2017) 851-853, doi: [10.12693/APhysPolA.131.851](https://doi.org/10.12693/APhysPolA.131.851)
467. V. Zhukova, J.M. Blanco, M. Ipatov, J. Gonzalez, M. Churyukanova A., Zhukov, "Engineering of magnetic softness and giant magnetoimpedance effect in Fe-rich microwires by stress-annealing", *Scripta Materialia* Vol. 142, 1 January 2018, 10–14, doi: 10.1016/j.scriptamat.2017.08.014
468. A. Zhukov, M. Ipatov, J.J. del Val, M. Churyukanova and V. Zhukova, Tailoring of magnetic properties of Heusler-type glass-coated microwires by annealing, *J. Alloys Compound.*, Vol.732, 25 January 2018, Pages 561-566 DOI: 10.1016/j.jallcom.2017.10.232
469. M. Ipatov, A. Chizhik, Abd El-Moez A. Mohamed, T. Sánchez, B. Hernando, V. Zhukova, A.P. Zhukov, L. Domínguez and J. González, Analysis of the off-diagonal component of giant magnetoimpedance effect in Co-based (as-cast and stress-annealed) amorphous ribbons, *Intermetallics* 93 (2018) pp-63-66 DOI: 10.1016/j.intermet.2017.11.08
470. A. Zhukov, M. Ipatov, A. Talaat, A. Aronin, G. Abrosimova, J.J. del Val and V. Zhukova, Magnetic hardening of Fe-Pt and Fe-Pt- M (M=B, Si) microwires, *J. Alloys Compound.*, Volume 735, (2018) pp.1071–1078, DOI: 10.1016/j.jallcom.2017.11.187
471. V. Zhukova, M. Ipatov, A. Talaat, J. M. Blanco, M.Churyukanova, S. Taskaev and A. Zhukov, "Effect of stress-induced anisotropy on high frequency magnetoimpedance effect of Fe and Co-rich glass-coated microwires" *J. Alloys Compound.* 735 (2018) 1818-1825, DOI: <https://doi.org/10.1016/j.jallcom.2017.11.235>
472. A. Chizhik, V. Zhukova, A. Zhukov, J. Gonzalez, P. Gawroński, K. Kułakowski, A. Stupakiewicz, Surface magnetic structures induced by mechanical stresses in Co-rich microwires, *J. Alloys Compound.*, 735 (2018) 1449-1453, DOI: <https://doi.org/10.1016/j.jallcom.2017.11.253>
473. A. Zhukov, M. Ipatov, J.J. del Val, S. Taskaev, M. Churyukanova and V. Zhukova, "First-order martensitic transformation in Heusler-type glass-coated microwires", *Appl.Phys. Lett.* 111 (2017) 242403, DOI: 10.1063/1.5004571

474. V. Zhukova, P. Corte-León, M. Ipatov, A. Talaat, J. M. Blanco, J. Olivera, J. Gonzalez, and A. Zhukov, Tailoring of magnetic softness and GMI effect in Fe-rich thin magnetic wires, *AIP Advances* 8, (2018) 056102, doi: <https://doi.org/10.1063/1.5004701>
475. V. Zhukova, J. M. Blanco, A. Chizhik, M. Ipatov, A. Zhukov, “AC-current-induced magnetization switching in amorphous microwires”, *Front. Phys.* 13(2), 137501 (2018) <https://doi.org/10.1007/s11467-017-0722-6>
476. O. I. Aksenov, G. E. Abrosimova, A. S. Aronin, N. N. Orlova, M. N. Churyukanova, V. A. Zhukova, and A. P. Zhukov, The change of domain structure of the amorphous microwire of $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_{13.5}\text{B}_9$ composition under thermal treatment, *J. Appl. Phys.* **122**, 235103 (2017); DOI: <https://doi.org/10.1063/1.5008957>
477. S. Shevyrtalov, A. Zhukov, V. Zhukova, V. Rodionova, Internal stresses influence on magnetic properties of Ni-Mn-Ga Heusler-type microwires, *Intermetallics* 94 (2018) 42–46, doi: <https://doi.org/10.1016/j.intermet.2017.12.016>
478. A. Zhukov, M. Ipatov, J.J. del Val, V. Zhukova, and V.A. Chernenko, Magnetic and structural properties of glass-coated Heusler-type microwires exhibiting martensitic transformation, *Scientific Reports*, 8 (2018) 621 (10p) DOI: 10.1038/s41598-017-19032-z
479. V. Zhukova, J.M. Blanco, M. Ipatov, M. Churyukanova, J. Oliver, S. Taskaev, A. Zhukov, Optimization of high frequency magnetoimpedance effect of Fe-rich microwires by stress-annealing, *Intermetallics*, 94 (2018) 92-98, doi: <https://doi.org/10.1016/j.intermet.2017.12.025>
480. J. Mino, M. Ipatov, J. Gamcova, K. Saksl, M. Durisin, V. Zhukova, Z. Vargova, A. Zhukov and R. Varga, Magnetic Characterization of Melt-Spun Co–Ni–Ga Ferromagnetic Superelastic Alloy, *Acta Phys. Polonica*, Vol. 131 (4) (2017) 1075-1077, doi: 10.12693/APhysPolA.131.1075
481. A. Chizhik, J. Gonzalez, Arcady Zhukov, A. Stupakiewicz, Torsion Stress Induced Magnetic Switching in Amorphous Microwires, *IEEE Magnetics Letters* 8 (2017) 5106805, doi: 10.1109/LMAG.2017.2710938
482. E. Shuvaeva, S. Kaloshkin, M. Churyukanova, A. Perminov, I. Khriplivets, A. Mitra, A. K. Panda, R. K. Roy, Premkumar, V. Zhukova, A. Zhukov, The Impact of Bending Stress on Magnetic Properties of Finemet Type Microwires and Ribbons, *J. Alloys Compound.* 743 (2018) 388-393, DOI: 10.1016/j.jallcom.2018.02.015
483. V. Zhukova, J. M. Blanco, M. Ipatov, M. Churyukanova, S. Taskaev and A. Zhukov, Tailoring of magnetoimpedance effect and magnetic softness of Fe-rich glass-coated microwires by stress- annealing, *Sci. Reports* 8 (2018) 3202 DOI: 10.1038/s41598-018-21356-3
484. S. Shevyrtalov, A. Zhukov, I. Lyatun, S. Medvedeva, H. Miki, V. Zhukova, V. Rodionova, Martensitic transformation behavior of $\text{Ni}_{2.44}\text{Mn}_{0.48}\text{Ga}_{1.08}$ thin glass-coated microwire, *J. Alloys Compound.* 745 (2018) 217-221, DOI: <https://doi.org/10.1016/j.jallcom.2018.02.096>
485. V. Zhukova, M. Ipatov, J. J. del Val, A. Granovsky and A. Zhukov, Tuning of magnetic properties of Ni-Mn-Ga glass-coated microwires, *IEEE Trans. Magn.*, 54 (6) (2018), 2500504, DOI: 10.1109/TMAG.2018.2813003
486. L. Galdun, T. Ryba, V. M. Prida, V. Zhukova, A. Zhukov, P. Diko, V. Kavečansky, Z. Vargova, R. Varga, “Monocrystalline Heusler Co_2FeSi alloy glass-coated microwires: Fabrication and magneto-structural characterization”, *J. Magn. Magn. Mater.* Vol. 453 (2018) pp. 96-100, DOI: <https://doi.org/10.1016/j.jmmm.2018.01.021>
487. M. Churyukanova, S. Kaloshkin, E. Shuvaeva, A. Stepashkin, M. Zhdanova, A. Aronin, O. Aksenov, P. Arakelov, V. Zhukov, A. Zhukov, Non-contact method for stress monitoring based on stress dependence of magnetic properties of Fe-based microwires, *J. Alloys Compound.* Volume 748, 5 (2018) pp. 199-205, DOI: [10.1016/j.jallcom.2018.02.342](https://doi.org/10.1016/j.jallcom.2018.02.342)
488. A. Zhukov, M. Ipatov, J.J. del Val, P. Corte-León, J. Gonzalez, A. Granovsky and V. Zhukova, Effect of annealing on magnetic properties of Ni–Mn–Ga glass-coated microwires , *J. Mater. Res.* Volume 33, Issue 15 (2018) pp. 2148-2155, DOI: 10.1557/jmr.2018.105
489. S. Shevyrtalov, A. Zhukov, S. Medvedeva, I. Lyatun, V. Zhukova and V. Rodionova, Radial elemental and phase separation in Ni-Mn-Ga glass-coated microwires, *J. Appl. Phys.* 123, (2018) 173903, doi: <https://doi.org/10.1063/1.5028549>.
490. A.V. Popova , V.I. Odintsov , S.A. Menshov , E.V. Kostitsyna, V.P. Tarasov, V. Zhukova, A. Zhukov, S.A. Gudoshnikov, “Continuous control of a resistance in Co-rich amorphous ferromagnetic

- microwires during DC Joule heating”, *Intermetallics*, Vol. 99 (2018), Pp 39–43, doi: <https://doi.org/10.1016/j.intermet.2018.05.012>
491. V. Zhukova, J.M. Blanco, P. Corte-Leon, M. Ipatov, M. Churyukanova, S. Taskaev, A. Zhukov, “Grading the magnetic anisotropy and engineering the domain wall dynamics in Fe-rich microwires by stress-annealing”, *Acta Materialia* 155 (2018) 279-285, DOI: <https://doi.org/10.1016/j.actamat.2018.05.068>
492. A. Chizhik, J. Gonzalez, P. Corte-León, A. Zhukov, A. Stupakiewicz, “Tuning of Magnetic Properties of Magnetic Microwires”, *IEEE Magnetics Letters*, 9, Article Sequence Number: 1405304 (2018), DOI 10.1109/LMAG.2018.2860940
493. A. Zhukov, “Recent advances in studies of Metastable, Amorphous and Nanostructured Materials. Preface for SI: ISMANAM 2017 collecting selected papers presented at “24th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2017)” Conference, June 18-23, 2017, San Sebastian, Spain”, *Journal of Alloys and Compounds* 766 (2018) 637-639, DOI: <https://doi.org/10.1016/j.jallcom.2018.06.335>
494. P. Corte-León, V. Zhukova, M. Ipatov, J. M. Blanco, J. González and A. Zhukov, Optimization of GMI effect and magnetic properties of Co-rich microwires by Joule heating, *IEEE Trans. Magn.* Vol. 55 Issue: 2 (2019) 2000404, DOI: TMAG.2018.2868895
495. A. Zhukov, P. Corte-Leon, J. M. Blanco, M. Ipatov, J. Gonzalez and V. Zhukova, Engineering of Magnetic Properties of Fe-Rich Microwires by Stress Annealing, *IEEE Trans. Magn.* Vol. 55 Issue: 2 (2019) 2000504, doi: 10.1109/TMAG.2018.2866452
496. G. Sarriegui, J. M. Martín, M. Ipatov, A. P. Zhukov, J. Gonzalez, Magnetic Properties of NdFeB Alloys Obtained by Gas Atomization Technique, *IEEE Trans. Magn.*, Vol. 54, Issue: 11, Nov. 2018, 2103105, DOI: 10.1109/TMAG.2018.2839906
497. M. Osinalde, P. Infante, L. Domínguez, J. M. Blanco, A. Chizhik, V. Zhukova, A. Zhukov and J. González, Magnetic Characterization in the Rayleigh Region of Nanocrystalline Magnetic Cores, *Materials* 11 (2018) 2278; doi:10.3390/ma11112278
498. A. Chizhik, A. Zhukov, J. Gonzalez, P. Gawroński, K. Kułakowski & A. Stupakiewicz, Spiral magnetic domain structure in cylindrically-shaped microwires, *Sci. Reports*, 8 (2018) 15090 | DOI:10.1038/s41598-018-33322-0
499. Alexander Chizhik, Arkady Zhukov, Julian Gonzalez, and Andrzej Stupakiewicz, Control of reversible magnetization switching by pulsed circular magnetic field in glass-coated amorphous microwires, *Appl. Phys. Lett.* 112, 072407 (2018).
500. P. Corte-León, V. Zhukova, M. Ipatov, J.M. Blanco, J. Gonzalez, A. Zhukov, “Engineering of magnetic properties of Co-rich microwires by joule heating”, *Intermetallics* 105 (2019) 92-98, DOI: <https://doi.org/10.1016/j.intermet.2018.11.013>
501. A. Allue, P. Corte-León, K. Gondra, V. Zhukova, M. Ipatov, J. M. Blanco, J. Gonzalez, M. Churyukanova, S. Taskaev, Arkady Zhukov, “Smart composites with embedded magnetic microwire inclusions allowing non-contact stresses and temperature monitoring” *Composites Part A* 120 (2019) 12–20
502. P. Corte-León, V. Zhukova, M. Ipatov, J. M. Blanco, J. González, and A. Zhukov, “Magnetic properties of “thick” glass-coated Fe-rich microwires”, *AIP Advances* 9, 035017 (2019); <https://doi.org/10.1063/1.5077009>
503. P. Corte-Leon, V. Zhukova, M. Ipatov, J.M. Blanco, J. Gonzalez, M. Churyukanova, J.M. Baraibar, S. Taskaev and A. Zhukov, “Stress dependence of the magnetic properties of glass-coated amorphous microwires”, *J. Alloys Compound.* 789 (2019) 201-208, doi: <https://doi.org/10.1016/j.jallcom.2019.03.044>

III. PROCEEDINGS OF INTERNATIONAL CONFERENCES - With scientific evaluation (46)

504. A.P. Zhukov, B.K. Ponomarev, Annealing effect on magnetic properties of amorphous Co- and Fe- based alloys. *Physics of Amorphous alloys (sov)*, 1984, VI, Nauka, pp. 110-115.

505. B. K. Ponomarev, A. P. Zhukov, Peculiarities of remagnetization process of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloy, Structure, Structure transitions and magnetic properties of amorphous alloys, Moscow: Metallurgy 1986, 111-113.
506. A. P. Zhukov, B.K. Ponomarev, J.D. Sokolovskaia, About possible reason of start field fluctuations in amorphous alloys, Physics-Chemistry of amorphous(glassy) metallic materials, 1987, Moscow, 142-144.
507. B.K. Ponomarev, A.P. Zhukov, Dependence of start field of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloys on frequency and amplitude of the remagnetization field, Physics-Chemistry investigations of metallurgical processes (sov), 1987, 79-83.
508. A. Zhukov, J. Velázquez, E. Navarro and M.L. Sanchez , The magnetization profile and critical length of Co-Si-B wire with negative magnetostriction, Nanostructured and Non-crystalline Solids, Eds. M. Vazquez and A. Hernando, World Scientific 1995, 542-546.
509. S.A. Baranov, V.S. Larin, A.V. Torcunov, A. Zhukov and M. Vázquez, Magnetic properties of glass-insulated amorphous microwires, Nanostructured and Non-crystalline Solids, Eds. M. Vazquez and A. Hernando, World Scientific 1995, 567-571.
510. A. Hernando, A. Zhukov, M. Vázquez and V. Larin, Large Barkhausen effect in amorphous microwires, Barkhausen Effect and Analogous Phenomena, Eds G. Lomaev et. al. , Ijevsk, IjGTU 1995, 80-85.
511. A. Zhukov, M. Vázquez, J. Velázquez, C. Garcia and B. Ponomarev, Frequency dependence of coercivity in amorphous materials, Barkhausen Effect and Analogous Phenomena, Eds G. Lomaev et. al. , Ijevsk, IjGTU 1995, 86-91.
512. S. A. Baranov, V. S. Larin, A.V. Torcunov, M. Vázquez, A. Hernando and A. Zhukov, Remagnetization phenomena in amorphous microwires, Barkhausen Effect and Analogous Phenomena, Eds G. Lomaev et. al. , Ijevsk, IjGTU 1995, 7-11.
513. C.F. Catalan, V.M. Prida, J. Alonso, M. Vázquez, A. Zhukov, B. Hernando and J. Velázquez , Effect of glass coating on magnetic properties of amorphous microwires, Rapidly Quenched & Metastable Materials, Materials Science & Engineering A, Supplement (1997) 438-441.
514. P. Marin, J. Arcas, A. Zhukov, M. Vázquez and A. Hernando, Evolution of the magnetic properties with annealing temperature for CoMnSiB microwires in : G.C. Hadjipanayis (ed.), Magnetic Hysteresis in Novel Magnetic Materials, Kluwer Academic Publishers, Netherlands 1997, p. 743.
515. G. V. Kurlyandskaya, M. Vázquez, E. Sinnecker, A. P. Zhukov, J.P. Sinnecker, A. Hernando and M. El. Ghannami, Influence of various heat treatment on giant magnetoimpedance effect in nanocrystalline FeSiBNbCu ribbons, Proceedings of IV International Workshop, July 1997, Santiago de Compostela, Spain, pp. 190-195.
516. A. Zhukov, J. M. Garcia-Beneytez, M. Vázquez, J. M. Hernandez, X.X. Zhang and J. Tejada, Critical behaviour of magnetic bistability in amorphous ferromagnetic materials, Proceedings of IV International Workshop, July 1997, Santiago de Compostela, Spain pp.149-153.
517. A.F. Cobeño, J.M. Blanco, A. Zhukov and J. González “Magnetoelastic sensors based on amorphous (ribbons and microwires) materials, CDE 99, Actas de la Conferencia de Dispositivos Electrónicos 1999, CSIC-GES.
518. J. Gonzalez, M. Vázquez and A. Zhukov, Tailoring of magnetic properties of glass coated microwires by current annealing, Izvestiia RAN, Fizika 65 10 (2001) 1493-1498.
519. J. Gonzalez, A. Zhukov and M. Vázquez, Magnetic hardening in Glass Coated Microwires, Proceedings of the 16-th International Workshop on Rare- Earth

- Magnetic and their Applications, Eds. H. Kaneko, M. Homma and M. Okada, The Japan Institute of Metals, 2000, pp. 1149-1154.
520. A.P. Zhukov, J. González, V. Zhukova and J.M. Blanco, Tailoring of Magnetic Properties of Glass coated Microwires, *Mat. Res. Soc. Symp. Proc. Vol. 674*, Material research Society 2001, pp.U7.5.1- U7.5.6.
 521. H. Chiriac, T.-A- Ovari, M. Takajo, J. Yamasaki and A. Zhukov, Domain structure of “Thick” amorphous microwires with nearly-zero magnetostrection, *Mat. Res. Soc. Symp. Proc. Vol. 674*, Material research Society 2001, pp.U7.7.1- U7.7.6
 522. V. Zhukova, J. M. Blanco, M. Ipatov, J. Gonzalez, and A. Zhukov, Domain Wall Propagation in Thin Fe-Rich Glass-Coated Amorphous Wires , *AIP Conf. Proc. 1003* (2008) 301
 523. A. Chizhik, A. Zhukov, V. Zhukova, C. Garcia, J. M. Blanco, J. J. del Val, L. Fernandez, N. Iturriza and J. Gonzalez, “Nanocrystallization and Surface Magnetic Structure of Ferromagnetic Ribbons and Microwires” in *Advances in Nanoscale Magnetism*, ISSN 0930-8989, Springer Berlin Heidelberg, Volume 122, ISBN 978-3-540-69881-4 (Print) 978-3-540-69882-1 (Online), pp. 205-217
 524. V. V. Samsonova, A S Antonov, N A Buznikov, A A Rakhmanov and A. Zhukov , “Experimental study of surface domain structure effects on off-diagonal magnetoimpedance in glass-coated Co-based microwires”, *Journal of Physics: Conference Series* 98 (2008) 062004
 525. A. Zhukov, M. Ipatov, C. García, J. Gonzalez, L. Panina, J. M. Blanco and V. Zhukova, “Development of Thin Soft Magnetic Amorphous Microwires for High Frequency Magnetic Sensors Applications”, *PIERS Proceedings*, Hangzhou, China, March 24-28, 2008, pp.650- 657, 2008
 526. M. Ipatov, L. V. Panina ,V. Zhukova, J. Gonzalez and A. Zhukov, J.M. Blanco, “Ferromagnetic Microwires Composite Metamaterials with Tunable Microwave Electromagnetic Parameters” *REF. REVISTA/LIBRO: COMATCOMP (Materiales compuestos 09- Science and technology of composite materials 09) Proceedings*, Editors: A. Güemes, J.Kenny, A. Ureña, A. Vázquez and I. Mondragon, Octubre 2009, San Sebastián, pp.393-396
 527. M. Ipatov, G.R. Aranda, V.Zhukova, L. V. Panina, J. González, and A. Zhukov, “Tunable effective permittivity of composites based on ferromagnetic microwires with high magneto-impedance effect”, *Proceedings of META'10, International Conference on Metamaterials, Photonic crystals and Plasmonics*, Edited by Saïd Zouhdi, University Paris-Sud, France, January 18th, 2010 pp.138-144
 528. C. García, A. Zhukov, J. Gonzalez, V. Zhukova and J. M. Blanco, “High-frequency GMI effect in glass-coated amorphous wires”, *Proceedings of Moscow International Symposium on Magnetism (Supplementary Issue)*, Eds. N. Perov and Sheverdyayeva, Moscow 2005, ISBN 5-8279-0059-1 pp. 50-54.
 529. L. V. Panina, M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, “Tuneable dielectric properties of composites with arrays of magnetic wires “, *Proceedings of 3rd International Congress on Advanced Electromagnetic Materials in Microwaves and Optics*, London 30 Aug-4Sept, 2009 (ISBN 978-0-9551179-6-1) pp. 788-790, ©2009 Metamorphose-VI
 530. J. Gonzalez, M. Ipatov, L. Panina, G. R. Aranda, V. Zhukova, A. Zhukov, “Tunable Microwave Composites Containing Ferromagnetic Microwires.” ” *REF. REVISTA/LIBRO: Mat. Res. Soc. Symp. Proc. Vol. 674*, Material research Society (2001), pp.U7.7.1- U7.7.6, DOI: 10.1557/PROC-1223-EE03-04, paper Paper #: 1223-EE03-04

531. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, and A. Zvezdin, "High Frequency Magneto Impedance in Amorphous Microwires", Journal of Physics: Conference Series 200 p. 082009, doi:10.1088/1742-6596/200/8/082009,2010
532. A Chizhik, D N Merenkov, A Zhukov, J M Blanco, S L Gnatchenko and J. Gonzalez, "Magnetization reversal in thin glass covered amorphous microwires with helical anisotropy", REF. REVISTA/LIBRO: Journal of Physics: Conference Series 200 p. 082001, doi:10.1088/1742-6596/200/8/082001, 2010
533. L.V. Panina, M. Ipatov, V. Zhukova, J. Estevez, and A. Zhukov, A. , "Microwave metamaterials containing magnetically soft microwires", Materials Research Society Symposium Proceedings, MRS Fall Meeting; Boston, MA; 29 November 2010 through 3 December 2010; Code 86709, Volume 1312, (2011) pp. 313-318, DOI:10.1557/opl.2011.118
534. V. Zhukova, J.M. Blanco, M. Ipatov and A. Zhukov, "Domain wall dynamics of magnetically bistable microwires", EPJ Web of Conferences, 29 00036 (2012)900036 DOI: 10.1051/epjconf/20122
535. A. Zhukov, M. Ipatov, and V. Zhukova, "GMI Effect in Thin Amorphous Microwires for Sensors and Tuneable Metamateriales Applications", PIERS Proceedings, Kuala Lumpur, MALAYSIA, March 27-30, 2012, pp.674-679
536. M. Ipatov, V. Zhukova, L. V. Panina, and A. Zhukov, "Ferromagnetic Microwires Composite Metamaterials with Tuneable Microwave Electromagnetic Parameters", PIERS ONLINE, VOL. 5, NO. 6, 2009, pp.586-590
537. M. Ipatov, V. Zhukova, L. V. Panina, and A. Zhukov, "Ferromagnetic Microwires Composite Metamaterials with Tuneable Microwave Electromagnetic Parameters", Progress In Electromagnetics Research Symposium Proceedings, Moscow, Russia, August 18-21, 2009, pp. 1657-1661
538. M. Ipatov, A. Zhukov, J. Gonzalez, and V. Zhukova, "High-frequency Magneto-impedance in Ultra-thin Magnetically Soft Glass-coated Amorphous Microwires", Progress In Electromagnetics Research Symposium Proceedings, Moscow, Russia, August 18-21, 2009, pp.1349-1353
539. S. Gudoshnikov, N. Usov, A. Ignatov, V. Tarasov, A. Zhukov, and V. Zhukova, "Ferromagnetic Microwire Usage for Magnetic Tags", PIERS Proceedings, Moscow, Russia, August 19-23, 2012, pp. 1274-1277
540. A. Zhukov, M. Ipatov, and V. Zhukova, "Tailoring of Frequency and Magnetic Field Dependence of Giant Magnetoimpedance Effect in Thin Wires", PIERS Proceedings, Moscow, Russia, August 19-23, 2012, pp. 1278-1281
541. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, M. Churyukanova, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, V. Sudarchikova, L. Gonzalez-Legarreta, B. Hernando, and A. Zhukov, "Giant Magnetoimpedance Effect in Nanocrystalline Microwires", PIERS Proceedings, Stockholm, Sweden, Aug. 12-15, 2013, pp.12-46-1249
542. A. Chizhik, A. Zhukov and J. Gonzalez, "Magneto-optical Investigations of Co- and Fe-rich Composite Glass Covered Microwires", PIERS Proceedings, Stockholm, Sweden, Aug. 12-15, 2013, pp.1394-1398
543. A. Talaat, V. Zhukova, M. Ipatov, J.M. Blanco, A. Zhukov, "Effect of annealing on magnetic properties and giant magnetoimpedance effect of amorphous microwires". proc. IEEE of 2013 Seventh International Conference on Sensing Technology (ICST), 2013, ISBN: 978-1-4673-5220-8, pp. 916-921 DOI: 10.1109/ICSensT.2013.6727783
544. A. Talaat, V. Zhukova, M. Ipatov, J.M. Blanco, A. Zhukov, "Effect of nanocrystallization on Giant magnetoimpedance effect of microwires", proc. IEEE

- of 2013 Seventh International Conference on Sensing Technology (ICST), 2013, ISBN: 978-1-4673-5220-8, pp. 922-926, DOI: 10.1109/ICSensT.2013.6727784
545. A. Talaat, M. Ipatov, V. Zhukova, J. Gonzalez, L. Gonzalez-Legarreta, V.M. Prida, B. Hernando, A. Zhukov, "Soft magnetic amorphous ribbons with high frequency Magnetoimpedance for sensors"proc. IEEE of 2013 Seventh International Conference on Sensing Technology (ICST), 2013, ISBN: 978-1-4673-5220-8, pp. 927-932, DOI:10.1109/ICSensT.2013.6727785
 546. A. Zhukov, M. Ipatov, A. Talaat, J.M. Blanco, and V. Zhukova, "Tailoring of magnetic properties and GMI effect in thin amorphous wires" (Conference Paper) , TMS Annual Meeting 2014, Pages 785-792, 143rd Annual Meeting and Exhibition, TMS 2014; San Diego, CA; United States; 16 February 2014 through 20 February 2014; Code 104909
 547. V. Zhukova, A. Talaat, M. Ipatov, J. M. Blanco, M. Churyukanova, S. Kaloshkun, E. Zamiatkina, E. Shuvaeva, L. Gonzalez-Legarreta, B. Hernando, A. Zhukov, "Magnetic properties and giant magnetoimpedance effect in nanocrystalline microwires (Conference Paper), **TMS Annual Meeting 2014**, Pages 793-798, 143rd Annual Meeting and Exhibition, TMS 2014; San Diego, CA; United States; 16 February 2014 through 20 February 2014; Code 104909
 548. A. Zhukov, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, S. Gudoshnikov, M. Ipatov, A. Talaat, J.M. Blanco and V. Zhukova, "Magnetostriction of Co-Fe-Based Amorphous Soft Magnetic Microwires", in Energy Technology 2015: Carbon Dioxide Management and Other Technologies (eds A. Jha, C. Wang, N. R. Neelameggham, D. P. Guillen, L. Li, C. K. Belt, R. Kirchain, J. S. Spangenberg, F. Johnson, A. J. Gomes, A. Pandey and P. Hosemann), John Wiley & Sons, Inc., Hoboken, NJ, USA. Pp.265-271, doi: 10.1002/9781119093220.ch29
 549. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, P. Klein, R. Varga, L. Gonzalez- Legarreta, B. Hernando, and A. Zhukov 'Magnetic Properties of Nanocrystalline Microwires, in Energy Technology 2015: Carbon Dioxide Management and Other Technologies (eds A. Jha, C. Wang, N. R. Neelameggham, D. P. Guillen, L. Li, C. K. Belt, R. Kirchain, J. S. Spangenberg, F. Johnson, A. J. Gomes, A. Pandey and P. Hosemann), John Wiley & Sons, Inc., Hoboken, NJ, USA, pp.283-289, doi: 10.1002/9781119093220.ch31
 550. V. A. Zhukova, E. Shuvaeva, E. Kostytsyna, M. Churyukanova, S. D. Kaloshkin, A. Talaat, M. P. Ipatov, A. P. Zhukov, "INFLUENCE OF THE INHOMOGENEITIES ON MAGNETIC PROPERTIES OF GLASS-COATED MICROWIRES", Proceedings of 7th ECCOMAS Thematic Conference on Smart Structures and Materials SMART 2015 A.L. Araújo, C.A. Mota Soares, et al. (Editors), paper ID25, 9p
 551. A. P. Zhukov, M. P. Ipatov, A. Talaat, V. A. Zhukova, "DESIGN OF MAGNETIC PROPERTIES OF GLASS-COATED MICROWIRES FOR MAGNETIC SENSORS APPLICATIONS" Proceedings of 7th ECCOMAS Thematic Conference on Smart Structures and Materials SMART 2015 A.L. Araújo, C.A. Mota Soares, et al. (Editors), paper ID22, 12p
 552. M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, "Magneto-Impedance and Ferro-Magnetic Resonance effects in thin amorphous wires and their application in functional composites materials at microwaves", Proc. of International Conference on Electromagnetics in Advanced Applications (ICEAA), 2015, IEEE Explore, pp. 1131 – 1134, DOI:10.1109/ICEAA.2015.7297295

553. A. Zhukov, M. Ipatov, A. Talaat, M. Churyukanova and V. Zhukova, "High Frequency Giant Magnetoimpedance Effect of Soft Magnetic Amorphous Microwires", Proc. of International Conference on Electromagnetics in Advanced Applications (ICEAA), 2015, IEEE Explore, pp. 1307 – 1310, DOI: 10.1109/ICEAA.2015.7297327
554. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, "Engineering of magnetic properties of amorphous and nanocrystalline microwires", Valentina Zhukova, ProScience 2 (2015)pp. 89-104, 1st International Conference on Applied Mineralogy & Advanced Materials - AMAM2015 DOI:10.14644/amam.2015.016
555. V. Zhukova, A. Talaat, M. Ipatov, J. J. del Val, J. M. Blanco, and A. Zhukov, "Optimization of soft magnetic properties in nanocrystalline glass-coated microwires (Conference Paper)", Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015, 2015, Pages 157-164
556. V. Zhukova, M. Ipatov, A. Aronin, G. Abrosimova, A. Kiselev and A. Zhukov "Studies of magnetic properties of Ni-Mn-In-Co heusler-type glass-coated microwires (Conference Paper)" Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015 2015, Pages 149-155, TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015; Doha; Qatar; 11 January 2015 through 14 January 2015; Code 112225
557. J. Gonzalez, J.J. del Val and A. Zhukov, "Structural features in granular and amorphous microwires", in Recent Advances in Multidisciplinary Applied Physics: Proceedings of the First International Meeting on Applied Physics (APHYS-2003), pp. 351-356, Eslevier, 2005, 600p
558. A. Talaat, P. Klein, R. Varga, V. Zhukova, J.M. Blanco, M. Ipatov and A. Zhukov, Effect of Stress Annealing on Domain Wall Dynamics in Nanocrystalline Hitperm-Type Microwires, International Journal of Advanced Applied Physics Research, 2016, 3, 11-18, <http://dx.doi.org/10.15379/2408-977X.2016.03.01.03>
559. A. Zhukov, M. Ipatov and V. Zhukova, "Studies of Giant Magnetoimpedance Effect in Soft Magnetic Microwires at GHz Frequencies", Advanced Electromagnetic Materials in Microwaves and Optics (METAMATERIALS), 2016 10th International Congress on, IEEE Xplore (2016) pp. 424-426, **10.1109/MetaMaterials.2016.7746423**
560. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, "Current Controlled Magnetic Memory Based on Hysteretic Switching of Impedance in Conductor with Inclined Anisotropy Easy Axis", Nanomaterials: Application & Properties (NAP), 2017 IEEE 7th International Conference, IEEE Xplore, 02MFPM01 (2017) DOI: 10.1109/NAP.2017.8190404
561. A. Zhukov, P. Corte-León, L. Gonzalez-Legarreta, M. Ipatov, J. M. Blanco, V. Zhukova, Optimization of Giant Magnetoimpedance Effect in Fe-rich Microwires, 2018 International Conference on Electromagnetics in Advanced Applications (ICEAA), IEEE Xplore (2018) pp. 134-137, DOI: **10.1109/ICEAA.2018.8520524**
562. A. Zhukov, P. Corte-León, M. Ipatov, J. M. Blanco, J. Gonzlez, V. Zhukova, Engineering of Giant Magnetoimpedance Effect in Co-rich Microwires by Joule heating, 2018 International Conference on Electromagnetics in Advanced Applications (ICEAA), IEEE Xplore (2018) pp. 130-133, DOI: **10.1109/ICEAA.2018.8520420**
563. Paula Corte-León, Lorena Gonzalez-Legarreta, Valentina Zhukova, Mihail Ipatov, Julian Gonzalez, Juan Maria Blanco, Arcady Zhukov, Tuning the Giant Magnetoimpedance Effect in Fe-rich Magnetic Microwires by Stress-annealing, Proceedings of The Ninth

- International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, IARIA, 2018, pp.6-11, ISBN: 978-1-61208-660-6.
564. Paula Corte-León, Lorena Gonzalez-Legarreta, Valentina Zhukova, Mihail Ipatov, Julian Gonzalez, Juan Maria Blanco, Arcady Zhukov, "Optimization of Giant Magnetoimpedance Effect in Co-rich Magnetic Microwires" Proceedings of The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, IARIA, 2018, pp.1-5, ISBN: 978-1-61208-660-6.
565. A. Zhukov, M. Ipatov, J. M. Blanco and V. Zhukova, "Engineering of GMI effect of Fe-rich microwires by stress annealing", Progress In Electromagnetics Research Symposium, PIERS 2018, August 1-4, Toyama (Japan), IEEE Xplore (2018) pp.332-337
566. A. Zhukov, P. Corte-Leon, M. Ipatov and V. Zhukova, "Optimization of GMI Effect and Magnetic Properties of Co-rich Microwires by Joule Heating", Progress In Electromagnetics Research Symposium, PIERS 2018, August 1-4, Toyama (Japan), IEEE Xplore (2018) pp. pp. 338-343.

OTHER SCIENTIFIC PAPERS

567. A.P. Zhukov, M.V. Indenbom, B.K. Ponomarev, A.V. Serebriakov, Investigations of properties of amorphous alloys in bistable state, Chernogolovka, 1989, p.20.
568. B.K. Ponomarev, A. P. Zhukov, Dependence of start field of an amorphous Fe- and Co-rich alloys on frequency and magnetic field amplitude, Chernogolovka, 1986, p.10
- Total 547 papers*

Participation in conferences

Plenary and keynote contribution

1. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, Valentina Zhukova, "Engineering of magnetic properties of amorphous and nanocrystalline microwires", 1st International Conference on Applied Mineralogy & Advanced Materials - AMAM2015, Castellaneta Marina (Taranto), Italy, June 7-12, 2015, Scientific Research Abstracts Vol. 4, p. 2, 2015, proceedings : DOI:10.14644/amam.2015.016, *ProScience 2 (2015)* pp. 89-104,
2. Arcady Zhukov, Mihail Ipatov, Ahmed Talaat, Valentina Zhukova, Engineering of Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline microwires Suitable for Sensor Applications, X Congreso Iberoamericano de Sensores (IBERSENSOR 2016), Viña del Mar 26-28 October, 2016
3. A. Zhukov, Magnetic microwires for sensor applications, European Advanced Materials Congress - 2018 (EAMC - 2018, www.iaamevents.org/eamc18), Stockholm, Sweden, 20 - 23 August 2018

INVITED CONTRIBUTIONS:

1. M. Vázquez, A. Zhukov, Magnetic properties of glass coated amorphous and nanocrystalline microwires, XII International Conference on Soft Magnetic Materials, Cracow (Poland), 12-14 September 1995.
2. M. Vázquez, M. Knobel, M.L. Sánchez, R. Valenzuela and A. Zhukov, Giant magnetoimpedance effect in soft magnetic wires for sensor applications, I European Conference on Magnetic Sensors & Actuators (EMSA), Julio 1996, Romania
3. M. Vázquez, P. Marin, A. Zhukov and A. Hernando, Influence on nanocrystalline structure on the magnetic properties of wires and microwires, International Conference on Textures and Properties of Materials, September 1997, Ekaterinburg, Russia.
4. J.González, A. Zhukov, J.M. Blanco and M. Vázquez, Magnetic Properties of Nearly-zero Magnetostriction Glass-coated Amorphous Microwires, Moscow International Symposium on Magnetism (MISM), June 20-24, 1999
5. M. Vázquez, J.M. García –Beneytez, J.M. García, J.P. Sinnecker and A. Zhukov, “Giant magneto-impedance in heterogeneous microwires”, , Moscow International Symposium on Magnetism (MISM), June 20-24, 1999
6. J. Gonzalez, V. Zhukova, A. P. Zhukov, J. J. Del Val, J.M. Blanco, E. Pina and M. Vazquez, Magnetic and Structural Features of Glass-Coated Cu-based (Co,Fe,Ni – Cu) Microwires, 3rd Euroconference on Magnetic Properties of Fine Particles and their Relevance to Materials Science, Barcelona, October 19th - 22nd , 1999
7. A. Zhukov, "Glass coated microwires for technical applications", JEMS-01, Grenoble, France August 28-31, 2001
8. J. González, A.P. Chen, J.M. Blanco and A. Zhukov. Effect of the applied mechanical stresses on the impedance response in amorphous microwires with vanishing magnetostriction, SEEHEIM CONFERENCE ON MAGNETISM, SCM-2001, September 7-11,2001
9. A. Zhukov, V. Zhukova, J. M. Blanco, A. F.Cobeño, M.Vazquez and J Gonzalez, “Magnetostriction in glass-coated magnetic microwires”, Moscow International Symposium on Magnetism (MISM), June 2002
10. J. González, A. Chizhik, A. Zhukov and J.M. Blanco, "Surface magnetic behavior of nearly-zero magnetostrictive Co-rich amorphous microwires” Moscow International Symposium on Magnetism (MISM), June 2002
11. M. Vázquez, K.L. García, K A.P. Zhukov, R. Varga, P. Vojtanik, “Temperature dependence of switching field and its distribution in bistable magnetic microwires” Journal of Optoelectronics and Advanced Materials vol.6, No 2, (2004) p.581-586
12. A. Zhukov, J. Gonzalez and V. Zhukova, “Magnetoresistance in thin wires with granular structure”, INTERNATIONAL WORKSHOP ON NANOMAGNETISM, La Habana, Cuba November 14-18, 2004.
13. A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez “Recent research on magnetic properties of glass-coated microwires”, INTERNATIONAL WORKSHOP ON NANOMAGNETISM, LA HABANA, CUBA, November 14-18, 2004
14. V. Zhukova, M. Ipatov, A. Zhukov, R. Varga, A. Torcunov, J. Gonzalez and J.M. Blanco, “Studies of magnetic properties of thin microwires with low Curie temperatures”, Moscow International Symposium on Magnetism, MISM’05, June 25-30, 2005
15. H. Lachowicz, M. Kuzminski, K.L. García, A. Zhukov and M. Vázquez, A. Krzyzewski, “Influence of Alternative circular magnetic field strength on magnetoimpedance of glass-coated micro-wire” Moscow International Symposium on Magnetism, MISM’05, June 25-30, 2005, J. Magn. Magn. Mater. (2006), e88-e-92.

16. B. Hernando, J. Olivera, J.D. Santos, M.L. Sánchez, P. Gorriá, C. Garcia, J.M. Blanco, A. Zhukov, J.L. Sánchez Ll, "High frequency magnetoimpedance in amorphous and nanostructured $\text{Fe}_{73.5}\text{Si}_{13.5}\text{B}_9\text{Cu}_1\text{Nb}_3$ wires", Moscow International Symposium on Magnetism, MISM'05, June 25-30, 2005, J. Magn. Magn. Mater. 300 (2006), 24-28.
17. R. Varga, A. Zhukov, J. M. Blanco, J. Gonzalez , V. Zhukova and P. Vojtanik, "Magnetization processes in thin magnetic wires", Moscow International Symposium on Magnetism, MISM'05, June 25-30, 2005, J. . Magn. Magn. Mater. 300 (2006), e305-e-310.
18. G. Herzer, M. Vazquez, M. Knobel, A. Zhukov, T. Reininger, H.A. Davies and R. Grössinger, "Round table discussion: present and future application of nanocrystalline materials", INTERNATIONAL WORKSHOP ON NANOMAGNETISM, LA HABANA, CUBA, November 14-18, 2004
19. C. Garcia, A. Chizhik, J.J. del Val, A. Zhukov, J.M. Blanco and J. Gonzalez, "Structural, Magnetic and Electrical Transport Properties in Cold-Drawn Thin Fe-rich Wires", INTERNATIONAL WORKSHOP ON NANOMAGNETISM, LA HABANA, CUBA, November 14-18, 2004
20. C. Miguel, A.P. Zhukov J.J. Del Val and J. González, "Coercivity and Induced Magnetic Anisotropy by stress and/or field annealing in Fe- and Co-based amorphous Alloys", INTERNATIONAL WORKSHOP ON NANOMAGNETISM, LA HABANA, CUBA, November 14-18, 2004
21. C. García, A. Zhukov, J. Gonzalez, V. Zhukova and J. M. Blanco, "High-frequency GMI effect in different families of thin amorphous wires, Symposium on High frequency (Sendai, Japan, 2005), Trans. Magn. Soc. Jpn. vol.5 No 4, 148-1151 (2005)
22. A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez, "Giant magneto-impedance effect in thin amorphous wires for sensor applications.", The Physics of Metals and Metallography 99, Suppl.1., 2005, s57-s61
23. C. Garcia, A. Zhukov, M. Ipatov, V. Zhukova, J.J. del Val, L. Domínguez, J.M. Blanco, V. Larin and J. González "Soft Magnetic Behaviour of Nanocrystalline Fe-Based Glass-Coated Microwires", Journal of Optoelectronics and Advanced vol.8, No 5, pp.1667-1671
24. A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez "Giant magneto-impedance effect in thin amorphous wires for sensor applications.", EASTMAG-2007 (Euro-Asian Symposium "Magnetism on a Nanoscale"), *Conference Proceedings*, Kazan, (Russia), 2007
25. V. Zhukova, M. Ipatov, J. Gonzalez, J.M. Blanco, A. Zhukov, "Magnetic properties and GMI effect in ultra-thin magnetically soft amorphous microwires" International conference Functional Materials, Crimea, Ukraine, *Conference Proceedings*, 2007
26. N. Iturriza, N. Murillo, J.J. del Val, G. Vara, A.R. Pierna, A. Zhukov, J. Gonzalez, "Soft Magnetic Character of Nanocrystalline $\text{Fe}_{73.5-x}\text{Ni}_x\text{Si}_{13.5}\text{B}_9\text{Nb}_3\text{Cu}_1$ alloy ribbons ($x = 5, 10$ and 20)" International conference Functional Materials, Crimea, Ukraine, *Conference Proceedings*, 2007
27. A. Zhukov, M. Ipatov, C. García, J. Gonzalez, J. M. Blanco and V. Zhukova, "Magnetic Properties and High -Frequency GMI Effect in Thin Glass-Coated Amorphous Wires", 978-0-7375-0522-6, International conference Magnetic Materials Kolkata, India, 11/12/2007-16/12/2007
28. A. Zhukov, M. Ipatov, J. Gonzalez, J.M. Blanco and V. Zhukova, "Recent advances in studies of magnetically soft amorphous microwires " Moscow International Symposium on Magnetism, MISM'08, June 20-25, 2008

29. Arcady ZHUKOV, M. Ipatov, J. Gonzalez, V. Zhukova, **Recent Advances in Development of Amorphous and Nanocrystalline Glass-Coated Microwires for Magnetic Applications, The 17-th Annual International Conference on COMPOSITES/NANO ENGINEERING (ICCE – 17, Hawaii, USA)6 2008**
30. M. Ipatov, V. Zhukova, L. V. Panina, and A. Zhukov, Ferromagnetic Microwires Composite Metamaterials with Tuneable Microwave Electromagnetic Parameters, Progress In Electromagnetics Research Symposium Proceedings (PIERS), Proceedings of Conference Progress In Electromagnetics Research Symposium Proceedings, Moscow, Russia, August 18-21, 2009 1657-1661
31. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, N. Perov, J. Gonzalez and A. Zhukov, "Tailoring of magnetic properties of magnetostatically-coupled glass-covered magnetic microwires", "International Conference on Superconductivity and Magnetism" 25-30 April 2010 (Antalya, Turkey) (M-I-023), Abstract book, p.355
32. L. V. Panina, M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, "Microwave Metamaterials With Ferromagnetic Microwires", Proceedings of META'10, International Conference on Metamaterials, Photonic crystals and Plasmonics, Edited by Saïd Zouhdi, University Paris-Sud, France, January 18th, 2010 pp.248-254
33. V. Zhukova, M. Ipatov, and A. Zhukov, : Development of magnetically soft microwires with GMI effect , Charla invitada, Joint European Magnetic Symposia (JEMS 2010), Book of abstracts, p.172, (*abstr. No 372*), Krakow, Poland, AÑO: August 23- 28, 2010
34. L. Panina, M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, : Microwave Metamaterials from Ferromagnetic Microwires, Charla invitada, MRS-2010 FALL MEETING. Book of abstracts, Boston, USA, AÑO: 29/11/2010
35. A. Zhukov, J.M. Blanco, M. Ipatov and V. Zhukova, "Fast magnetization switching in thin wires:magnetoelastic and defects contributions", 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.1
36. L. Panina, M. Ipatov, V. Zhukova and A Zhukov, "Effective permittivity and permeability in arrays of ferromagnetic wires at GHz frequencies", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.23.
37. J. Gonzalez., A. Chizhik, A. Stupakiewicz, A. Maziewski, A. Zhukov, J.M. Blanco, "Surface magnetization reversal and magnetic domain structure in amorphous microwires", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.3
38. F. X. Qin, H. X. Peng , M.H. Phan, L. V. Panina, T. Meydan, M. Ipatov and A. Zhukov, "Ferromagnetic microwires and their multifunctional polymer composites" International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.4.
39. R. Varga, K. Richter, A. Zhukov and M. Vázquez, "Fast domain wall propagation in soft magnetic wires", *charla invitada Joint European Magnetic Symposia*, JEMS-05, *Abstract book, p. 169 (abstr. No 368)*, Krakow, Poland, AÑO: August 23- 28, 2010
40. A. Zhukov, Thin magnetic wires for GMI applications, Oral, International Conference for Materials and Applications for Sensors and Transducers, ICMAS-2011, Conference Proceedings book and at the book of abstracts, Cos, Grecia, AÑO: 13-17/05/2011
41. A. Zhukov, M. Ipatov, J.M. Blanco and V. Zhukova, "Amorphous microwires with enhanced magnetic softness and GMI characteristics " (semi-plenary talk, SP-

- 20) First Euro Mediterranean Meeting on Functionalized Materials, Conference Proceedings book and at the book of abstracts, p. 28, Sousse, Tunisia, Sept. 2011
42. A. Zhukov, J.M. Blanco, M. Ipatov and V. Zhukova "Fast magnetization switching in magnetically bistable microwires" (EA-1L/1, invited lecture), International Conference "Functional Materials - 2011", Conference Proceedings book and at the book of abstracts, p. 21, Partenit, Ukraine
43. A. Zhukov, C. Garcia, M. Ilyn, R. Varga, J. J. del Val, A. Granovsky, V. Rodionova and V. Zhukova, "**MAGNETIC AND TRANSPORT PROPERTIES OF GRANULAR AND HEUSLER-TYPE GLASS-COATED MICROWIRES**" invited talk (24TL-B-5) Moscow International Symposium on Magnetism, MISM'11, August 21-25, 2011, book of abstracts, p. 542, Moscow, 21-25/08/2011
44. R. Varga, K. Richter, P. Klein, A. Zhukov, M. Vazquez "Fast domain wall dynamics in amorphous and nanocrystalline microwires", invited talk (25TL-B-5) Moscow International Symposium on Magnetism, MISM'11, Conference book of abstracts, p.830, Moscow, 21-25/08/2011
45. A. Zhukov, M. Ipatov, C. Garcia and V. Zhukova, "Giant magnetoimpedance in thin wires: from manipulation of magnetic field dependence to industrial applications", International Conference on Superconductivity and Magnetism (ICSM2012), (Istanbul 2012), Conference book of abstracts, p.248, Istanbul, 29/04-04/05/2012)
46. R. Varga, K. Richter, P.Klein, A. Zhukov and M. Vazquez, "Domain Wall Dynamics in Thin Magnetic Wires", International Conference on Superconductivity and Magnetism (ICSM2012), (Istanbul 2012), Conference book of abstracts, p.176, Istanbul, 29/04-04/05/2012)
47. A. Zhukov, M. Ipatov and V. Zhukova, "Recent advances in magnetism and applications of thin magnetic wires and magnetoimpedance of thin magnetic wires", 4-th International Conference on Nano-structures self-assembly (NANOSEA 2012), 25-29 June 2012, S. Margherita di Pula (Italy), Conference book of abstracts, p.215
48. A. Zhukov, M. Ipatov, V. Zhukova, "Giant magnetoimpedance effect in thin amorphous wires: from manipulation of magnetic field dependence to industrial applications", 19-th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM – 2012), Moscow, Russia, June 18 - 22, 2012, Conference book of abstracts, p.50
49. A. Zhukov, M. Churyukanova, L.Gonzalez, A. Talaat, V. Zhukova, B. Hernando, S. Kaloshkin, "Effect of Magnetoelastic Anisotropy on Properties of Nanostructured Microwires", **International Conference on Nanostructured Materials, Nano 2012**, August 26-31, 2012, Rodos (Greece), conference programme, p.95
50. A. Zhukov, M. Ipatov, J. M. Blanco, M. Churyukanova, S. Kaloshkin, A. Talaat and V. Zhukova "Studies of amorphous and nanostructured thin magnetic wires", **2nd International Congress on Advanced Materials (AM2013)**, 16-19 May 2013, Jiangsu University, Zhenjiang, China, Conference book of abstracts, A65
51. V. Rodionova, V. Zhukova, L. Fetisov, A. Grunin, A. Goikhman, A. Torcunov, A. Aronin, G. Abrosimova, A. Kiselev, A. Granovsky, A. Zhukov "Magnetic properties of Ni-Mn-Ga Heusler alloys microwires and Ni-Mn- In Heusler alloys thin films", **2nd International Congress on Advanced Materials (AM2013)**, 16-19 May 2013, Jiangsu University, Zhenjiang, China, Conference book of abstracts, A65
52. A. Zhukov, E. Zamiatkina, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, V. Zhukova, "Effect of composite origin on magnetic properties of glass-coated microwires", Second Euro Mediterranean Meeting on Functionalized Materials" (Hammamet, Tunisia, March. 24-28-th 2013), Conference book of abstracts, pp.8-9

53. L.V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, "Studies of magnetically soft ferromagnetic wires and tuneable composite materials containing wire inclusions", DAYS ON DIFFRACTION 2013 INTERNATIONAL CONFERENCE, Saint Petersburg, May 27 – 31, 2013 Abstracts book, pp.142-143
54. A. Zhukov, M. Ipatov, J.M. Blanco, A. Chizhik, A. Talaat and V. Zhukova, "Fast Magnetization Switching in Amorphous Microwires", 15th Czech and Slovak Conference on Magnetism CSMAG'13, 17 – 21 June, 2013 KOŠICE
55. V. Zhukova, A. Talaat, M. Ipatov, J.M. Blanco, and A. Zhukov, "Effect of nanocrystallization on magnetic properties and GMI effect of microwires", International Symposium on Frontiers in Materials Science, (FMS 2013), 17- 19th November 2013, Ha Noi, VietNam, Conference book of abstracts, p.56
56. A. Zhukov, M. Ipatov, A. Talaat, J. Blanco, and V. Zhukova, "Tailoring of Magnetic Properties and GMI Effect in Thin Amorphous Wires", TMS 2014 143rd ANNUAL MEETING & EXHIBITION , 16/02/2014 - 20/02/2014, San Diego (California, USA), TMS final programme, p.188
57. A. Zhukov, A. Talaat, M. Ipatov, J.M. Blanco, L. Gonzalez-Legarreta, B. Hernando and V. Zhukova, "OPTIMIZATION OF MAGNETIC PROPERTIES AND GIANT MAGNETOIMPEDANCE EFFECT IN NANOCRYSTALLINE MICROWIRES" (Abstract ID: 1653), 4th International Conference on Superconductivity and Magnetism- ICSM2014, Antalya, Turkey, 27.04-02.05. 2014, Abstract book, p.362
58. V. Rodionova, K. Chichay, V. Zhukova, M. Ipatov, N. Perov and A. Zhukov, "TAILORING OF MAGNETIC PROPERTIES OF AMORPHOUS FERROMAGNETIC MICROWIRES", (Abstract ID: 2554), Antalya, Turkey, 27.04-02.05. 2014, 4th International Conference on Superconductivity and Magnetism- ICSM2014, Abstract book, p.361
59. A. Zhukov, K. Chichai, A. Talaat, V. Rodionova, J.M. Blanco, M. Ipatov and V. Zhukova, "Manipulation of magnetic properties of glass-coated microwires by annealing" (30TL-F-6), Moscow International Symposium on Magnetism "MISM 2014", in Moscow, June 2014
60. A. Zhukov M. Ipatov V. Zhukova. " **Formation of magnetic properties and GMI effect in soft magnetic microwires** ", XV All-russian School-seminar on problems of condensed matter (СПФКС-15) , November 13-20 2014, Yekaterinbourg; http://smu.imp.uran.ru/?q=spfks_main
61. Arcady Zhukov, Mihail Ipatov, Ahmed Talaat, Alexandr Chizhik, Juan M. Blanco, Sergei Gudoshnikov and Valentina Zhukova, "Recent Progress in Studies of Magnetic Microwires" (invited), The 8th Energy, Materials, and Nanotechnology (EMN) Meeting, November 22 to 25, 2014, Orlando, Florida, USA, <http://www.emnfall.org/2014/>
62. A. Zhukov, M. Ipatov, A. Talaat and V. Zhukova " **High frequency Giant magnetoimpedance effect of magnetically soft amorphous microwires** ", the Nanomaterials 2014 Conference, Nancy, France, September 8-11, 2014, Institut Jean Lamour, abstract book pp.75-78
63. A. Zhukov, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, S. Gudoshnikov, M. Ipatov, A. Talaat, J.M. Blanco and V. Zhukova "Magnetostriiction of Co-Fe-based amorphous soft magnetic microwires" TMS 2015 144rd ANNUAL MEETING & EXHIBITION , **March 15-19, 2015, Orlando, Florida, USA**, TMS collected proceedings, **Energy Technology 2015 Carbon Dioxide Management and Other Technologies**, pp.265-272

64. A. Zhukov, A. Talaat, J.M. Blanco, M. Ipatov and V. Zhukova “Engineering of magnetic properties of amorphous microwires”, The 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM), Paris, 13-17 July 2015
65. A. Zhukov, M. Ipatov, A.Talaat, J.M. Blanco, M.Churyukanova, J. Gonzalez and V. Zhukova “ Engineering of magnetic properties and giant magnetoimpedance effect of amorphous and nanocrystalline microwires” 7-th Intl. Workshop on Amorphous and Nanocrystalline Materials, Iasi, Romania 21-24 Sept., 2015
66. M.Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov “Magneto-Impedance and Ferro-Magnetic Resonance effects in thin amorphous wires and their application in functional composites materials at microwaves”, International Conference on Electromagnetics in Advanced Applications (ICEAA), 2015, Torino, Sept 2015, IEEE Explore, pp. 1131 – 1134, DOI:10.1109/ICEAA.2015.7297295
67. R. Varga, T. Ryba, M. Obaida, J. Mino, L. Galdun, D. Gonzalez, Z. Vargova, V. Zhukova, A. Zhukov,” **Rapidly quenched Heusler alloys**”(invited talk) Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015
68. Y. Luo, F.X. Qin, F. Scarpa, A. Zhukov, J. Carbonell, H.X. Peng, Metacomposites based on ferromagnetic microwires” (invited talk), Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015
69. J. Mino, A.Zhukov, V.Zhukova, J. J. Del Val, M. Ipatov, A. M. Amesti and R. Varga, Engineering of the GMR effect in CuCo microwires with granular structure (Invited talk), The International Workshop on Nanoscience and Nanotechnology: Opportunities for Academia & High Tech Industry Joint 4th Asia-Pacific Chemical and Biological Microfluidics Conferences (IWNN-APCBM 2015), 2-4 November 2015 – Da Nang, Vietnam
70. A. Zhukov, M. Ipatov, A.Talaat, J.M. Blanco, M.Churyukanova and V. Zhukova, Engineering of Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline Microwires, 5th International Conference on Superconductivity and Magnetism- ICSM2016, Fethiye, Turkey, 24.04-30.04. 2016, abstract book p.327
71. A. Zhukov, J. M. Blanco, M. Ipatov, A. Talaat, and V. Zhukova “Engineering of domain wall dynamics in amorphous microwires by annealing”, 23rd International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2016), Nara, Japan, July 3-8, 2016
72. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, V. Zhukova, Engineering of magnetic properties and GMI effect of amorphous and nanocrystalline microwires, International Conference on Functional Materials ICFM 2017 Hammamet (Tunisia), September 05-09, 2017
73. A.Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and V. Zhukova, Tailoring of magnetic softness and GMI effect in Fe-rich thin magnetic wires, EUROMAT 2017, Thessaloniki, Sept. 17-22, 2017 (Highlight talk)
74. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova, V. Zhukova, Engineering of magnetic properties of Co- and Fe-rich microwires, The 4th International Symposium on Advanced Magnetic Materials and Applications (ISAMMA 2017), 10-13 December 2017–Phu Quoc, Vietnam

75. A. Zhukov, M. Ipatov, J. M. Blanco and V. Zhukova, Engineering of magnetic properties of Co- and Fe-rich microwires by stress annealing, TMS 2018 147th ANNUAL MEETING & EXHIBITION, March 11 - 15, 2018 Phoenix, Arizona USA, programme book p.26.
76. A. Zhukov, M. Ipatov, J. M. Blanco and V. Zhukova, Engineering of magnetic properties of magnetic microwires, 8th International Advances in Applied Physics & Materials Science Congress and Exhibition (APMAS), April 24-30, 2018, Oludeniz (Turkey)
77. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and V. Zhukova, Engineering of magnetic properties and GMI effect of Co- and Fe-rich magnetic microwires, 6th International Conference on Superconductivity and Magnetism-ICSM2018, Antalya, Turkey, 29.04-04.05. 2018.
78. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and V. Zhukova, Engineering of soft magnetic properties of amorphous and nanocrystalline magnetic microwires for sensor applications, CIMTEC 2018 - 14th International Conference on Modern Materials and Technologies, 8th Forum on New Materials, Perugia, Italy (June 10-14), 2018
79. A. Zhukov, P. Corte-León, M. Ipatov, J. M. Blanco, M. Churyukanova and V. Zhukova, "Engineering of magnetic properties and GMI effect in Fe-rich magnetic microwires by stress annealing", 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (ID164) abstract book p.301

OTHER SCIENTIFIC CONERENCIES

80. A. P. Zhukov, B.K. Ponomarev, "About remagnetization process of amorphous alloys", Proceed. III All-Union Seminar on Amorphous Magnetism, Samarcand, 1983, p.68.
81. B.K. Ponomarev, A. P. Zhukov, Fluctuations of coercive force of amorphous CoFeSiB alloy, Proceed of the conference on physics of magnetetic phenomena, Tula, 1983, p.60.
82. A. P. Zhukov, B.K. Ponomarev, Peculiarity of remagnetization process of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloy, Proceed of I All-USSR scientific conference on problems of investigations of structure of amorphous metallic alloys, 1984, p.199-201
83. B.K. Ponomarev, A. P. Zhukov, Start field fluctuations in amorphous aloys, Proceed. of the All-USSR Conference on magnetic recording techniques, Vilnius, 1984, p.1, 115-116 (oral talk).
84. A. P. Zhukov, B.K. Ponomarev, Changing of magnetic properties of amorphous alloys Co₇₀Fe₅Si₁₀B₁₅ during thermal cycling. Proceed. II conference on Physics-Chemistry of amorphous (glassy) metallic alloys, Moscow, Nauka, 1985, 86-87.
85. A. P. Zhukov, S.P. Pankratov, Investigations of thermal stability of amorphous Fe-B-P alloys with eutectic compositions, Proceed. III All-USSR conference of Regularity of the structure formation of the eutectic type alloys, Dnepropetrovsk , 1985, p.II, 47-48
86. B.K. Ponomarev, A. P. Zhukov, Dependence of start field of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloys on rate of change of remagnetization field, Proceed. IV All-USSR seminar on amorphous magnetism, Krasnoyarsk, 1986, 142
87. A. P. Zhukov, B.K. Ponomarev, G.L. Perlovich, J.D. Sokolovskaia, Conditions of statistics behavior of remagnetization process in amorphous alloys, Proceed. IV All-USSR seminar on amorphous magnetism, Krasnoyarsk, 1986, 143.
88. A. P. Zhukov, B.K. Ponomarev, Start field fluctuations in amorphous alloys, Proceed. XVIII All-USSR conference on physics of magnetic phenomena, Kalinin, 1988, 569-570.
89. A.P. Zhukov, B.K. Ponomarev, Start field fluctuations in amorphous alloys, Proceed. V All-Union conference on Fluctuation phenomena in physical systems, Vilnius, 1988, 193-195. (oral talk)
90. A. P. Zhukov, B.K. Ponomarev, Effect of thermal cycling on start field distribution of amorphous Co₇₀Fe₅Si₁₀B₁₅ alloy, Proceed. III All-USSR on problem of investigations of structure of amorphous metallic alloys, Moscow, 1988, 281.

91. A. P. Zhukov, M.V. Indenbom, Effect of edges of ribbons on specific features of remagnetization process, Proceed. III All-USSR on problem of investigations of structure of amorphous metallic alloys, Moscow, 1988, 282-283.
92. A. P. Zhukov, B.K. Ponomarev, A.V. Serebriakov, About possibility of application of bistable amorphous ribbons, III Conference on magnetoelectronics, Krasnoyarsk, 188, 282.
93. A. P. Zhukov, M.V. Indenbom, Dependence of the switching field distribution on the frequency of a remagnetization field in amorphous alloys ribbons, IV International conference on physics of magnetic materials, Szczyrk-Bila (Poland), September 4-10, 1988, 176.
94. A. P. Zhukov, B.K. Ponomarev, Start field distribution in a bistable amorphous ribbons, IV International conference on physics of magnetic materials, Szczyrk-Bila (Poland), September 4-10, 1988, 175.
95. A. P. Zhukov, Effect Matteucci in amorphous alloys, All-USSR seminar on magnetoelectronics, October 19-25 1991, Simpheropol 1991, 49.
96. A. P. Zhukov, Effect Matteucci in amorphous alloys, Proceed. V All-USSR conference "Amrphous precisionalloys: technology, properties, applications", Rostov-Velikii, 1991, 23-27 September, 96-97.
97. A. P. Zhukov, N.I. Novohatskaia, Relationship between wearability and magnetic properties of amorphous Co-Ni-Si-B-Re alloy, Proceed. V All-USSR conference "Amrphous precisionalloys: technology, properties, applications", Rostov-Velikii, 1991, 23-27 September, 128.
98. A. P. Zhukov, Effect Matteucci in amorphous alloys, Proceed. XIX All-USSR conference on magnetic phenomena, Tashkent, 1991, v.3, 161.
99. B.K. Ponomarev, A. P. Zhukov, S.A. Ivanov, B.S. Red`kin and V. N. Kurlov, Proceed. VIII Int. Meeting on ferroelasticity,
100. B.K. Ponomarev, Yu.F. Popov, V.D. Negrii, A. P. Zhukov, B.S. Red`kin , Magnetoelastic interaction phenomena in crystals, Abstract booklet, II Int. conf, Sepr. 13-18, 1993, Centro Stefano Franschini Monte Verita, Ascona (Ticino), Switzerland, 9.
101. S.A. Baranov, V.S. Larin, A.V. Torcunov, A. Zhukov and M. Vázquez, Magnetic properties of glass-insulated amorphous microwires, IV International Workshop on Non-crystalline materials, Madrid, September 20-23, 1994.
102. A. Zhukov, J. Velázquez, E. Navarro and M.L. Sanchez , The magnetization profile and critical length of Co-Si-B wire with negative magnetostriction, IV International Workshop on Non-crystalline materials, Madrid, September 20-23, 1994.
103. A. Zhukov, C. Gómes-Polo, P. Crespo and M. Vázquez, EMMA'95, Vienna (Austria), 4-8 September 1995 (oral talk)
104. A. Hernando, A. Zhukov, M. Vázquez and V. Larin, Large Barkhausen effect in amorphous microwires, IV School-Seminar on Barkhausen Effect and Anologous Phenomena, Pskov 1995.
105. A. Zhukov, M. Vázquez, J. Velazquez, C. Garcia and B. Ponomarev, Frequency dependence of coercivity in amorphous materials, IV School-Seminar on Barkhausen Effect and Anologous Phenomena, Pskov 1995.
106. S. A. Baranov, V.S. Larin, A.V. Torcunov, M. Vázquez, A. Hernando and A. Zhukov, Remagnetization phenomena in amorphous microwires, IV School-Seminar on Barkhausen Effect and Anologous Phenomena, Pskov 1995.
107. P. Marin, J. Arcas, A. Zhukov, M. Vázquez and A. Hernando, Evolution of the magnetic properties with annealing temperature for CoMnSiB microwires, Magnetic Hysteresis in Novel Magnetic Materials - NATO AdvancedStudy Institute, 1-12 July 1996.
108. A. Zhukov, M. Vázquez, J. Velázquez, C. Garcia, R. Valenzuela and B. Ponomarev, Frequency dependence of coercivity in rapidly quenched amorphous materials, 9th International Conference on Rapidly Quenched and Metastable Materials, Bratislava 2530 August, 1996.
109. C.F. Catalan, V.M. Prida, J. Alonso, M. Vázquez, A. Zhukov, B. Hernando and J. Velázquez, Effect of glass coating on magnetic properties of amorphous microwires, 9th International Conference on Rapidly Quenched and Metastable Materials, Bratislava 2530 August, 1996.
110. G. Kurlyandskaia, M. Vazquez, E. A. Sinnecker, A. P. Zhukov, J.P. Sinneker, A. Hernando ad M. El Ghannami, Influence of various heat treatments on Giant Magnetoimpedance effect in Nanocrystalline FeSiBNbCu ribbons, International Conference on Textures and Properties of Materials, September 1997, Ekaterinburg, Russia.(oral talk)

111. A. Zhukov, J. M. Garcia-Beneytez, M. Vázquez J. M. Hernandez, X.X. Zhang and J. Tejada, Critical behaviour of magnetic bistability in amorphous ferromagnetic materials, IV International Workshop, July 1997, Santiago de Compostela, Spain (oral talk).
112. E.H.C.P. Sinnecker, J.P. Sinnecer, A. Zhukov, J. M. Garcia-Beneytez, M.J. Garcia Prieto and M. Vázquez, Giant magnetoimpedance in glass covered microwires, XIII International Conference on Soft Magnetic Materials, September 1997, Grenoble, France.
113. G. V. Kurlyandskaya, M. Vázquez, E. Sinnecker, A. P. Zhukov, J.P. Sinnecker, A. Hernando and M. El. Ghannami, Influence of various heat treatment on giant magnetoimpedance effect in nanocrystalline FeSiBNbCu ribbons, IV International Workshop, July 1997, Santiago de Compostela, Spain.
114. H. Chiriac, Ch. Pop, T.A. Óvári, F. Barariu, M. Vázquez and A.P. Zhukov, Effect of Mn, Sn and Cr additions on the magnetic properties of the amorphous glass-covered wires from the Fe-Si-B system, International Conference on Magnetism 97, USA.
115. A. Zhukov, J. M. Garcia-Beneytez and M. Vázquez, Magnetoelastic sensor for signature identification based on mechanomagnetic effect in amorphous wires XIII International Conference on Soft Magnetic Materials, September 1997, Grenoble, France.
116. M. Vázquez, A. Hernando, P. Marin and A. Zhukov, Magnetic properties and magneto-impedance effect in glass-coated amorphous microwires, International Conference on Magnetism, August 1997, Australia. (oral talk)
117. A. Zhukov, V. Larin, E. Sinnecker, P. Crespo, F. Guerrero, J. Arcad and M. Vázquez, Structurally heterogeneous glass-coated microwires with enhanced coercivity, XII International Conference on Permanent Magnets, September 22-26, 1997, Suzdal, Russia, p.53.(oral talk)
118. G. Kurlyandskaia, M. Vázquez, E. A. Sinnecker, Ap. Zhukov, A.P. Sinnecker, A. Hernando and M. El Ghannami, Influence of various heat treatments on Giant Magnetoimpedance effect in Nanocrystalline FeSiBNbCu ribbons, International Conference on Texture and Microstructures, Ekaterinburg, 29 September- 3 October 1997.(oral talk)
119. A. Zhukov, J. Gonzalez, P. Aragonese, J. M. Blanco, M. Vázquez, A. Hernando, P. Marin, M.J. Garica Prieto y E. Pina, Magnetic properties and Magnetoimpedance of glass-coated amorphous microwires, Jornadas Hispano-Francesas de nuevos materiales, Grenoble, 27-29 November 1997
120. D. Páramo, M.J. Garica, E. Pina, F. Guerrero, P. Marin, A. Zhukov, M. Vázquez and A. Hernando, Magnetic properties of glass-coated microwires, Jornadas Hispano-Francesas de nuevos materiales, Grenoble, 27-29 Novembre 1997
121. A. Zhukov, E. Sinnecker, D. Paramo, F. Guerrero, V. Larin, J. González and M. Vázquez, Fabrication and magnetic properties of glass-coated microwires from immiscible elements, 43th Annual Conference on Magnetism & Magnetic Materials, Miami, 9-12 November 1998.
122. Giant magnetoimpedance of glass covered amorphous microwires Co-Mn-Si-B and Co-Si-B. Hongbin Nie, Xixiang Zhang, A. B.Pakhomov, Zhong Xie, Xiao and A. Zhukov, 43th Annual Conference on Magnetism & Magnetic Materials, Miami, 9-12 November 1998.
123. P. Aragonese, D. Holzer, H. Sassik, A. Zhukov, R. Grössinger and J. Gonzalez, Frequency dependence of GMI effect in nanocrystalline Fe₈₆Zr₇B₆Cu₁ ribbons, Conference on Magnetism of Nanostructures Phases, EMMA Satellite Meeting, San Sebastián, September 4-6, 1998
124. A. Zhukov, J. Gonzalez, A. Torcunov, E. Pina, M.J. Prieto, A. F. Cobeño, J.M. Blanco, V. Larin and S. Baranov, Magnetism and Structure of Fe-based Glass-coated Microwires, Conference on Magnetism of Nanostructures Phases, EMMA Satellite Meeting, San Sebastián, September 4-6, 1998.
125. M.J. Garcia Prieto, E. Pina, A.P. Zhukov, V. Larin, P. Marin, M. Vázquez and A. Hernando, Glass coated Co-rich Amorphous Microwires with Improved Permeability, 2nd European Conference on Sensors and Actuators (EMSA), 13-15 July 1998, Sheffield, UK.
126. E. H. C. P. Sinnecker, D. Páramo, V. Larin, A. Zhukov, M. Vázquez, A. Hernando and J. González, Glass coated microwires with enhanced coercivity, Conference on Magnetism of Nanostructures Phases, EMMA Satellite Meeting, San Sebastián, September 4-6, 1998 (oral talk).
127. P. Aragonese, A. Zhukov, J. Gonzalez, J.M. Blanco and L. Dominguez, Effect of AC driving current on Magneto-Impedance effect, 2nd European Conference on Sensors and Actuators (EMSA), 13-15 July 1998, Sheffield, UK
128. A. Zhukov, J. Gonzalez, J.M. Blanco, P. Aragonese and L. Dominguez Magnetoelastic sensor of level of the liquid based on magnetoelastic properties of Co-rich microwires, 2nd European Conference on Sensors and Actuators (EMSA), 13-15 July 1998, Sheffield, UK

129. J. M. Blanco, A. Zhukov and J. Gonzalez, Effect of tensile and torsion on GMI effect in amorphous wire, European Conference on Magnetic Materials and Applications (EMMA'98), Zaragoza, September 1998.
130. J. Llumá, M. Vázquez, J.M. Hernandez, J.M. Ruiz, J.M. García-Beneytez, A. Zhukov, X.X. Zhang and J. Tejada, Low temperature magnetization and resistivity measurements in co based soft magnetic microwires European Conference on Magnetic Materials and Applications (EMMA'98), Zaragoza, September 1998
131. P.Aragoneses, J.M. Blanco, A.F. Cobeño, L. Dominguez, J. Gonzalez, A. Zhukov and V. Larin, Stress Dependence of the Switching Field in Co-rich Amorphous Microwires, European Conference on Magnetic Materials and Applications (EMMA'98), Zaragoza, September 1998.
132. A.F. Cobeño, J.M. Blanco, A. Zhukov, L. Dominguez, J. Gonzalez, A. Torcunov and P. Aragoneses, Matteucci Effect in Glass Coated Microwires, INTERMAG 99, Korea, May 1999.
133. A. F. Cobeño, J. M. Blanco, A. Zhukov, J. Gonzalez and V. Larin. "Effect of tensile stresses on GMI of amorphous microwires.", INTERMAG 99, Korea, May 1999 (oral talk).
134. J.M. Blanco, A. Zhukov and J. Gonzalez "Asymmetric torsion stress giant magnetoimpedance in nearly-zero magnetostrictive amorphous wires", 44-th Annual Conference on Magnetism & Magnetic Materials, San Jose, November 1999 (oral talk).
135. J. Gonzalez, A. P. Zhukov, J. M. Blanco, A. Cobeño, M. Vázquez and K. Kulakowski "Evaluation of the saturation magnetostriction in nearly-zero magnetostrictive glass-coated amorphous microwires", 44th Annual Conference on Magnetism & Magnetic Materials, San Jose, November 1999.
136. J. M. Blanco, A. Zhukov, A. F. Cobeño, A.P. Chen and J. Gonzalez, Effect of heat treatment on impedance behaviour in nearly-zero magnetostriction (Co_{0.95}Fe_{0.05})_{72.5}Si_{12.5}B₁₅ amorphous wire, Intermag 2000 (Toronto, Canada)
137. J. Gonzalez, A. Zhukov, V. Zhukova, A. F. Cobeño, J.M. Blanco, A.R. de Arellano-Lopez, S. Lopez-Pombero, J. Martinez-Fernandez, V. Larin and A. Torcunov, High coercivity of partially devitrified glass-coated finemet microwires: effect of geometry and thermal treatment, Intermag 2000 (Toronto, Canada).
138. V. Zhukova, A.F. Cobeño, A. Zhukov, J.M. Blanco, S. Puerta, J. Gonzalez and M. Vázquez, Tailoring of magnetic properties of glass coated microwires by current annealing, VI International Workshop on Non crystalline Solids (Bilbao, 2000)
139. A. Chizhik, A. Zhukov, J.M. Blanco* and J. Gonzalez "Surface and bulk hysteresis loops of Fe-rich glass coated microwires", VI International Workshop on Non crystalline Solids (Bilbao, 2000)
140. C. Miguel, A .P. Zhukov and J. Gonzalez, Stress and/or Field Annealing in Fe_{73.5}Cu₁Nb₃Si_{15.5}B₇ Amorphous Ribbon, VI International Workshop on Non crystalline Solids (Bilbao, 2000)
141. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez , Kerr effect investigation of the magnetization reversal in Co-rich wires, Symposium on Recent Research on Novel Magnetic Structures and Their Applications", (San Sebastián, Spain, September 18 - 19, 2000), (oral talk),
142. J. J. del Val, J. González and A. Zhukov, Structural study of glass coated cu-based microwires, Symposium on Recent Research on Novel Magnetic Structures and Their Applications", (San Sebastián, Spain, September 18 - 19, 2000), (oral talk)
143. H. Chiriac, T.-A. Ovari, M. Takajo, Jiro Yamasaki and A. Zhukov "Ddomain structure of 'thick' amorphous microwires with nearly zero magnetostriction." (oral talk), MRS Spring 2001 Meeting, San Francisco
144. A. Zhukov, J. Gonzalez, V. Zhukova, J.M. Blanco, "Tailoring of magnetic properties of glass coated microwires". (oral talk), MRS Spring 2001 Meeting, San Francisco
145. V. Zhukova, A. Zhukov, J.M. Blanco and J. Gonzalez "Switching field dependence on applied field orientation in bistable Fe-rich microwires" SEEHEIM CONFERENCE ON MAGNETISM, SCM-2001, September 7-11, 2001
146. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez "Kerr effect as method of investigation of magnetization reversal in amorphous wires SEEHEIM CONFERENCE ON MAGNETISM, SCM-2001, September 7-11, 2001
147. V. Zhukova, A. Zhukov, J.M. Blanco and J. Gonzalez "Orientational dependence of switching field in bistable Co-rich wires" 15th SMM Conference, Bilbao, September 5-7, 2001

148. C. Miguel, A.P. Zhukov and J. González "Magnetoimpedance of Stress and/or Field Annealed Fe_{73.5}Cu₁Nb₃Si_{15.5}B₇ Amorphous and Nanocrystalline Ribbon" 15th SMM Conference, Bilbao, September 5-7, 2001
149. V. Zhukova, A. Zhukov, J.M. Blanco, V. Larin, A. Torcunov and J. Gonzalez "Magnetostriction of glass-coated Co₅₇Fe_{6.1}Ni₁₀B_{15.9}Si₁₁ amorphous microwires and its dependence on current annealing." 15th SMM Conference, Bilbao, September 5-7, 2001
150. A. Chizhik, A. Zhukov, J.M. Blanco and J. Gonzalez "Kerr effect investigation of magnetization reversal in Co-rich glass coated microwires" 15th SMM Conference, Bilbao, September 5-7, 2001
151. V. S. Larin, V. Zhukova, A. Zhukov, A. V. Torcunov and M. Vazquez, "Tailoring of magnetic anisotropy in Fe-rich glass – coated magnetic microwires by thermo-mechanical annealing" 3d European Conference on Sensors and Actuators (EMSA), July 2002. Greece
152. V. Zhukova, A. Zhukov, V. Kraposhin, A. Prokoshin and J. Gonzalez, "Magnetic properties and GMI of soft magnetic amorphous fibers" 3d European Conference on Sensors and Actuators (EMSA), July 2002. Greece
153. V. Zhukova, A. Zhukov, J.M. Blanco, J. Gonzalez, C. Gómez –Polo and M. Vázquez, "Effect of applied stress on magnetization profile of Fe-Si-B amorphous wire" 47th Annual Conference on Magnetism & Magnetic Materials, Miami, 11-15 November 2002 Florida, Tampa, USA.
154. V. Zhukova, A. Zhukov, J.M. Blanco, N. Usov and J. Gonzalez, " Effect of applied stress on remagnetization and magnetization profile of Co-Si-B amorphous wire" Moscow International Symposium on Magnetism (MISM), June 2002
155. V. Zhukova, A.P. Zhukov, N.A. Usov, J.M. Blanco, J. González, "Magnetization Reversal Process at Low Applied Magnetic Field in a Co-rich Amorphous Wire", 4th International Symposium on Hysteresis and Micromagnetic Modelling, Salamanca, España, 2003
156. A. Chizhik, A. Zhukov, J.M. Blanco, J. Gonzalez, "Surface magnetization reversal in Co-rich amorphous microwires in crossed magnetic fields", 4th International Symposium on Hysteresis and Micromagnetic Modelling, Salamanca, España, 2003 (poster)
157. A. Zhukov, C. Luna, J.L. Martinez, V. Zhukova and M. Vázquez, "Magnetoresistance in Co-Ni-Cu glass coated microwires", International Conference on Magnetism, Roma, Italia, 2003 (oral)
158. M. Gutowski, R. Zuberek, and A. Zhukov, "Novel surface anisotropy term in the FMR spectra of amorphous microwires", International Conference on Magnetism, Roma, Italia, 2003 (poster)
159. A. Chizhik, J. Yamasaki, A. Zhukov, J. Gonzalez, J.M. Blanco, "Magnetization reversal and magnetic domain structure in glass-covered Co-rich microwires in presence of tensile stress", International Conference on Magnetism, Roma, Italia, 2003 (poster)
160. V. Zhukova, A. Zhukov, J. Gonzalez, J.M. Blanco and M. Vázquez, "Processing of magnetic properties of nearly-zero magnetostrictive glass coated microwires by current annealing ", Intermag Conference, Boston, EE.UU., 2003 (poster)
161. A. F.Cobeño, A. Zhukov, J. M. Blanco and J Gonzalez, "Air flux magnetoelastic sensor based on inverse Wiedemann effect of amorphous ribbon", European Conference on Sensors and Actuators, Atenas, Grecia, 2002 (poster)
162. C. Luna, V. Raposo, I. Garshelis, A. Zhukov, J.I. Iñiguez, M. Vázquez, "Inducing rotation and levitation of magnetostrictive wires and rods: Correlated amplitude and frequency of exciting axial magnetic field", European Conference on Sensors and Actuators, Atenas, Grecia, 2002 (poster)
163. V. Zhukova, A. Chizhik, A. Zhukov, A. Torcunov, V. Larin and J. Gonzalez, "Optimization of giant magneto-impedance in Co-rich amorphous microwires", Intermag Conference, Amsterdam, Holand, 2002 (oral)
164. M. Vázquez, A. Zhukov, K.L. García, K.R. Pirota, A. Ruiz, J.L. Martinez and M. Knobel, "Temperature dependence of magnetization reversal in magnetostrictive glass-coated amorphous microwires", International Conference on Rapidly Quenched Materials (RQ), Oxford, UK, 2002 (oral)
165. C. García, A. Zhukov, V. Zhukova, M. Ipatov, J.M. Blanco and J. Gonzalez, "Effect of Tensile Stresses on GMI of Co-rich Amorphous Microwires", Intermag Conference, Nagoya, Japan, 2005 (oral)
166. R. Varga, A. Zhukov, J.M. Blanco, J. Gonzalez, V. Zhukova and P. Vojtanik, "Switching Field Distribution Study in Amorphous Microwires", Intermag Conference, Nagoya, Japan, 2005 (oral)

167. P. Gawroński, A. Zhukov, J. Gonzalez, J.M. Blanco, K. Kułakowski, "Tensile stress dependence of the magnetostatic interaction between Fe-rich wires", JEMS (Joint European Magnetic symposium), Dresden, Germany, 2004 (poster)
168. V. Zhukova, M. Ipatov, J. Gonzalez, J.M. Blanco and A. Zhukov, "Studies of magnetic properties and gmi effect in ultra-thin magnetically soft amorphous microwires", Oral presentation, 52-nd MMM (Magnetism and Magnetic Materials) Conference, Tampa, USA, 2007
169. C. García, V. Zhukova, J. Gonzalez, A. Chizhik, J.M. Blanco, M. Ipatov and A. Zhukov, "Magnetic and transport properties of Fe-rich thin cold drawn amorphous wires", ISMANAM Conference, Corfu, Grece, 2007 (poster)
170. C. García, V. Zhukova, M. Ipatov, J. González, J.M. Blanco and A. Zhukov, "High -frequency GMI effect in glass-coated amorphous wires", poster, ISMANAM Conference, Corfu, Grece
171. C. García, A. Zhukov, J. González, J. J. del Val, J.M. Blanco and V. Zhukova, "Fabrication and magnetic properties of Cu₇₀(Co₇₀Fe₅Si₁₀B₁₅)₃₀ thin microwires", ISMANAM Conference, Corfu, Grece (poster)
172. A. Zhukov, M. Ipatov, C. García, J. Gonzalez, L. Panina, J.M. Blanco and V. Zhukova, "Development of thin soft magnetic amorphous microwires for high frequency magnetic sensors applications", Progress In Electromagnetics Research Symposium (PIERS), 2008, Hangzhou, China, 24-28/03/2008 (oral)
173. V. Zhukova, J. M. Blanco, M. Ipatov, R. Varga, J. Gonzalez and A. Zhukov, Domain Wall Propagation in Fe-rich Microwires, 6-th Internacional Symposium on Hysteresis Modeling and Micromagnetics, Naples, Italy, 4-6 June 2007 (poster)
174. C. García, V. Zhukova, J. Gonzalez, J.M. Blanco and A. Zhukov, Effect of Magnetic field frequency on coercivity behaviour of nanocrystalline Fe₇₉Hf₇B₁₂Si₂ glass-coated microwires, 6-th Internacional Symposium on Hysteresis Modeling and Micromagnetics, Naples, Italy, 4-6 June 2007 (poster)
175. M. Ipatov, N.A. Usov, A. Zhukov, J. Gonzalez, Local nucleation fields of Fe-rich microwires and their dependence on applied stresses, 6-th Internacional Symposium on Hysteresis Modeling and Micromagnetics, Naples, Italy, 4-6 June 2007 (poster)
176. A. Chizhik, J.M. blanco, A. Zhukov, J. Gonzalez, C. Garcia, P. Gawronski, K. Kulakowski, "Magneto-optical determination of helical magnetic structure in amorphous microwires", 6-th Internacional Symposium on Hysteresis Modeling and Micromagnetics, Naples, Italy, 4-6 June 2007 (poster)
177. V. Zhukova, J. M. Blanco, M. Ipatov, J. Gonzalez and A. Zhukov, "Domain Wall Propagation in Thin Fe-Rich Glass-Coated Amorphous Wires", International Conference on Magnetic Materials (ICMM-2007), American Institute of Physics (AIP) Conference Proceedings Calcutta, (India) 2007 (poster)
178. C. García, V. Zhukova, J. J. Del Val, J. Gonzalez, M. Knobel and A. Zhukov, "Domain Wall Propagation in Thin Fe-Rich Glass-Coated Amorphous Wires", POSTER, Europeam Materials Research Symposium (EMRS-2007), Strasburg, (France), 2007
179. V. Zhukova, J.M. Blanco, M. Ipatov, A. Zhukov, C. García, J. Gonzalez and A. Torcunov, Development of thin microwires with low Curie temperature for temperature sensors applications, E-MRS 2006 Spring Meeting, Sensors and Actuators (b), Niza, Francia, Fecha: 29/05/2006 (poster)
180. V. Zhukova, M. Ipatov, A. Zhukov, J. Gonzalez and J.M. Blanco, GMI effect in ultra-thin glass-coated Co-rich amorphous wires., E-MRS 2006 Spring Meeting, Sensors and Actuators (b), Niza, Francia, Fecha: 29/05/2006 (poster)
181. M. Ipatov, R. Varga, A. Zhukov, J.M. Blanco, J. Gonzalez, V. Zhukova, Complex susceptibility measurements in amorphous glass-coated microwires, VIII International Workshop on Non-crystalline Solids, Journal of Non-Crystalline Solids 353 (2007) 928–930, Girona, España, Fecha: 20/06/2006 (oral)
182. A. Zhukov, C. García, V. Zhukova, V. Iarin, J. González, J.J. del Val, M. K Nobel and J.M. Blanco, Fabrication and magnetic properties of Cu₅₀(Fe₆₉Si₁₀B₁₆C₅)₅₀ thin microwires, VIII International Workshop on Non-crystalline Solids, Journal of Non-Crystalline Solids 353 (2007) 922–924, Girona, España, Fecha: 20/06/2006 (oral)
183. R. Varga, A. Zhukov, N. Usov, J.M. Blanco, J. González, V. Zhukova and P. Vojtanik, Domain wall dynamics in glass coated magnetic microwires, III Joint European Magnetic Symposia. JEMS'06. Journal of Magnetism and Magnetic Materials, San Sebastián, Spain, 30/06/2006 (poster)

184. C. García, A. Chizhik, A. Zhukov, V. Zhukova, J. González, J.M. Blanco, L.V. Panina, Influence of torsion and tensile stress on magnetoimpedance effect in Fe-rich amorphous microwires at high frequencies, III Joint European Magnetic Symposia. JEMS'06. Journal of Magnetism and Magnetic Materials, San Sebastián, Spain,; 30/06/2006 (poster)
185. C. García, V. Zhukova, A. Zhukov, N. Usov, M. Ipatov, J. Gonzalez, and J. M. Blanco, Effect of Interaction on Giant Magnetoimpedance Effect in a System of Few Thin Wires, 6th European Conference on Magnetic Sensors and Actuators, EMSA 06, Sensor Letters, Vol.5, 1–3, 2007, Bilbao, España, Fecha: 03/07/2006 (poster)
186. V. Zhukova, A. Zhukov, F. J. Palomares, F. Pigazo, F. Cebollada, J. J. Del Val, C. García, J.M.Gonzalez and J. Gonzalez, Thermal dependence of coercivity in granular CoNiCu glass coated microwires., Congreso internacional de Magnetismo ICM- 2006, Journal of Magnetism and Magnetic Materials 310, (2007), pp e867-869, Kyoto, Japan , Fecha: 21/08/2006 (poster)
187. R. Varga, A. Zhukov, N. Usov, J.M. Blanco, J. González, V. Zhukova, P. Vojtanik, Propagation of fast magnetic domain wall in glass coated microwires., International Conference on Magnetism ICM'2006, Journal of Magnetism and Magnetic Materials 310, (2007), Kyoto, Japan , Fecha: 21/08/2006 (poster)
188. A. Zhukov, V.Zhukova, V. Larin and J. Gonzalez, Design of magnetic properties of Fe –rich microwires by stress annealing., Joint European Magnetic Symposia, Journal of Magnetism and Magnetic Materials 290-291 (2005), September 5-10, 2004, Dresden, Germany, Fecha: 5-10/09/2004 (poster)
189. A. Zhukov, V. Zhukova, V. Larin , J.M. Blanco and J. Gonzalez, Tailoring of magnetic anisotropy of fe-rich microwires by stress induced anisotropy, 7-th latin american workshop on magnetism, magnetic materials and their applications , Reñaca, Chile ,12/12/2005-16/12/2005 (oral)
190. V. Zhukova, J. M. Blanco, M. Ipatov, J. Gonzalez and A. Zhukov “DOMAIN WALL PROPAGATION IN THIN FE-RICH GLASS-COATED AMORPHOUS WIRES”, International conference on Magnetic Materials, Kolkata, India, 11-16/12/2007, Kolkata, India (oral)
191. R. Varga, A. Zhukov, K. Richter, V. Zhukova, J. Gonzalez, J.M. Blanco “Supersonic domain wall in ferromagnetic microwires” International SPINSWITCH Workshop on Spin Momentum Transfer, Krakow , Septiember 3-5, 2008
192. V. Zhukova, J. Gonzalez, A. Zhukov, “Development of thin wires with granular structure exhibiting GMR effect”, Smart Systems Integration, 10-11.03.2009 conference proceedings, Brussels , 10-11.03.2009, 2009 (poster)
193. A. Zhukov, M. Ipatov, J. Gonzalez, J.M. Blanco, V. Zhukova “Progress in development of magnetically soft amorphous microwires for microsensor applications”, Smart Systems Integration, Brussels , 10-11.03.2009, conference proceedings, Brussels , 10-11.03.2009, 2009 (oral)
194. V. Zhukova, J. M. Blanco, M. Ipatov, and A. Zhukov, “Effect of transverse magnetic field on domain wall propagation in magnetically bistable glass-coated amorphous wires”, INTERMAG 2009, 4-8 May 2009, conference proceedings, Sacramento (EE.UU), 4-8 May 2009, 2009 (oral)
195. R. Varga, K. Richter, G. Infante, M. Vazquez and A. Zhukov, “Tailoring the domain wall dynamics in thin magnetic wires.”, INTERMAG 2009, 4-8 May 2009 conference proceedings, Sacramento (EE.UU), 4-8 May 2009, 2009 (oral)
196. A. Chizhik, A. Zhukov, J. Blanco and J. Gonzalez, “Adjustment of domain nucleation and domain wall motion in magnetic amorphous microwires.”, INTERMAG 2009, 4-8 May 2009, conference proceedings and J. Appl. Phys. , Sacramento (EE.UU), 4-8 May 2009, 2009 (oral)
197. A. Chizhik, A. Zhukov, A. Stupakiewicz, A. Maziewski, J. Blanco and J. Gonzalez, “Kerr microscopy study of magnetic domain structure changes in amorphous microwires.”, INTERMAG 2009, 4-8 May 2009, conference proceedings and IEEE Trans. Magn. VOL. 45, NO. 10, OCTOBER 2009 p. 4279, Sacramento (EE.UU), 4-8 May 2009, 2009 (poster)
198. M. Ilyn, A.V. Andreev, M.I. Bartashevich, E.A. Tereshina, A. Zhukov, V. Zhukova and J. Gonzalez, “Magnetocaloric effect in single crystal Nd₂Co₇”, INTERMAG 2009, 4-8 May 2009, conference proceedings, Sacramento (EE.UU), 4-8 May 2009, 2009 (poster)
199. N. Pankratov, F. Qin, H. Peng, L. Panina, M. Ipatov and A. Zhukov, “An investigation of magnetic and mechanical properties of planar composite filling by Co-based glass-coated microwires.”, INTERMAG 2009, 4-8 May 2009, conference proceedings , Sacramento (EE.UU), 4-8 May 2009 (poster)

200. M. Ipatov, A. Zhukov, J. Gonzalez and V. Zhukova, High-frequency Magneto-impedance in Ultra-thin Magnetically Soft Glass-coated Amorphous Microwires, Progress In Electromagnetics Research Symposium Proceedings (PIERS), Proceedings of Conference Progress In Electromagnetics Research Symposium Proceedings, Moscow, Russia, August 18-21, 2009 1349-1353, Moscow, Russia, August 18-21, 2009 (poster)
201. V. ZHUKOVA, M. Ipatov, A. Zvezdin, A. Zhukov, Domain Wall Propagation in Bistable Amorphous Microwires, The 17-th Annual International Conference on COMPOSITES/NANO ENGINEERING (ICCE – 17, Hawaii, USA), conference proceedings, Hawaii, July 2009, USA (oral)
202. L. V. Panina, M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, „TUNEABLE DIELECTRIC PROPERTIES OF COMPOSITES WITH ARRAYS OF MAGNETIC WIRES”, Euromat 2009, conference proceedings, Glasgow, September 2009, UK (poster)
203. A. Zhukov, M. Ipatov, J. Gonzalez, J.M. Blanco and V. Zhukova, „DEVELOPMENT OF MAGNETICALLY SOFT AMORPHOUS GLASS COATED MICROWIRES”, Euromat 2009, conference proceedings, Glasgow, September 2009, UK (oral)
204. L. V. Panina, M. Ipatov, V. Zhukova, J. Gonzalez, and A. Zhukov, TUNEABLE DIELECTRIC PROPERTIES OF COMPOSITES WITH ARRAYS OF MAGNETIC WIRES, Metamaterials 2009, conference proceedings, London, September 2009, UK (poster)
205. M. Ipatov, V. Zhukova, A. Zvezdin, J. Gonzalez, J.M. Blanco and A. Zhukov “Role of defects on domain wall propagation in magnetically bistable glass-covered microwires”, International Conference on Superconductivity and Magnetism” 25-30 April 2010 (Antalya, Turkey) (M-P-069), Abstract book, p.569
206. M. Ipatov, V. Zhukova, A. Zvezdin, J. Gonzalez, J.M. Blanco and A. Zhukov “ Role of defects on domain wall propagation in magnetically bistable glass-covered microwires”, International Conference on Superconductivity and Magnetism” 25-30 April 2010 (Antalya, Turkey) (M-P-069), Abstract book, p.569
207. M. Ipatov, G.R. Aranda, V. Zhukova, L. V. Panina, J. González, and A. Zhukov, “Tunable effective permittivity of composites based on ferromagnetic microwires with high magneto-impedance effect”, Proceedings of META'10, International Conference on Metamaterials, Photonic crystals and Plasmonics, Edited by Saïd Zouhdi, University Paris-Sud, France, January 18th, 2010 pp.138-144
208. J.M. Blanco, V. Zhukova, M. Ipatov and A. Zhukov, “Domain wall propagation in micrometric amorphous microwires”, 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.16 (oral)
209. V. Rodionova, M. Ilyn, M. Ipatov, V. Zhukova, N. Perov, J. Gonzalez and A. Zhukov, “Spectral characteristics of the arrays of magnetically coupled glass-covered microwires” 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.20 (oral)
210. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez and A. Zvezdin, “Asymmetrical magneto-impedance in amorphous microwires” 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.37 (oral)
211. A. Chizhik, M. Ilyn, V. Zhukova, A. Zhukov, J. Gonzalez and J.M. Blanco, ” Surface and volume magnetization reversal in array of tiny amorphous microwires”, 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.68 (poster)
212. M. Ipatov, V. Zhukova, J. Gonzalez, A. Zhukov, “Annealing effect on local nucleation fields in bistable microwires”, International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.38 (poster)
213. A. Chizhik, A. Stupakiewicz, A. Maziewski, A. Zhukov, J. Gonzalez , J.M. Blanco, “Transformation of surface magnetic domain structure in amorphous microwires”, International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.7 (oral)
214. S. Gudoshnikov, N. Usov, A. Zhukov, V. Zhukova, P. Palvanov, B. Ljubimov, O. Serebryakova, and S. Gorbunov, “Evaluation of use of magnetically bistable microwires for magnetic labels”, International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.15 (oral)
215. M. Ilyn, A. Granovsky, V. Zhukova, J. Gonzalez and A. Zhukov, “Magnetoresistance of granular Co-Cu alloys prepared in the form of the glass-covered microwires”, International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.13 (oral).

216. V. Rodionova, M. Ilyn, M. Ipatov, V. Zhukova, N. Perov, J. Gonzalez, A. Zhukov, "Domain wall propagation in single and coupled bistable class-coated microwires" International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.18 (oral).
217. S. Gudoshnikov, A. Zhukov, V. Zhukova, Y. Sitnov, V. Skomarovsky, S. Gorbunov, N. A. Usov "Correlation of magnetic properties and giant magnetoimpedance characteristics of Co-rich amorphous microwires", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.20 (oral).
218. L. Panina, M. Ipatov, V. Zhukova and A Zhukov, "Temperature dependent magnetoimpedance in amorphous wires for application in remote temperature monitoring composites", 8-th European Conference on Sensors and Actuators (EMSA), July 4-7 2010, Bodrum, Turkey, Book of abstracts, p.42
219. N.A. Usov, A. Zhukov, J. González, "Domain structure of magnetic nanotube with transverse anisotropy", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.27 (oral).
220. S.A., Baranov, A. Zhukov, V.S. Larin, L. Chicu, "Use of the cast amorphous microwire for radioabsorbing materials", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.32 (poster).
221. J.M. Blanco, V. Zhukova, M. Ipatov and A. Zhukov, "Effect of applied stresses on domain wall propagation in glass-coated amorphous wires", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.33 (poster).
222. P. Gawroński, V. Zhukova, A. Zhukov and J. Gonzalez, "Consequences of the radial stress of glass coating for the magnetic properties of a family of Fe-rich microwires", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.33 (poster).
223. V.S. Larin, A. Zhukov, E. Ustiugova, L. Chicu, "Temporal stability of coercive force of microwire's segments", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.39 (poster).
224. L. Panina, M. Ipatov, V. Zhukova and A. Zhukov, "Magnetic wire arrays as materials with negative refractive index", International Workshop on Magnetic Wires, 8-9 July 2010, Bodrum, Turkey, Book of Abstracts, p.49 (poster).
225. A. Chizhik, A. Stupakiewicz, A. Maziewski, A. Zhukov, J. Gonzalez and J. M. Blanco, "Circular multi-domain structure in axial magnetic field in magnetic microwires", Joint European Magnetic Symposia, JEMS-05, Abstract book, p. 169 (abstr. No 369), Krakow, Poland, August 23- 28, 2010 (oral)
226. K. Richter, R. Varga and A. Zhukov, "Domain wall dynamics in microwires with induced perpendicular anisotropy", Joint European Magnetic Symposia, JEMS-05, Abstract book, p. 175 (abstr. No 392 Krakow, Poland, August 23- 28, 2010 (poster)
227. V. Zhukova, J.M. Blanco, M. Ipatov, J. Gonzalez and A. Zhukov, "Effect of magnetoelastic anisotropy on domain wall propagation in amorphous microwires", Joint European Magnetic Symposia, JEMS-05, Abstract book, p. 177 (abstr. No 400), Krakow, Poland, August 23- 28, 2010 (poster)
228. L. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov and J. Gonzalez, "Tailoring electromagnetic response with arrays of cut magnetic wires", oral, Metamaterials 2010, conference proceedings, Karlsruhe, September 12-16, 2010, Germany
229. M. Ilyn, J.J. del Val, V. Zhukova, A. Zhukov and J. Gonzalez, Magnetic glass-covered microwires with Ni₂MnGa core, 2nd INTERNATIONAL CONFERENCE ON FERROMAGNETIC SHAPE MEMORY ALLOYS (ICFSMA'09), Bilbao, Spain, 01/06/2009 (poster)
230. M. Ilyn, V. Vega, V. M. Prida, A. Fernandez, J.L. Sanchez-Llamazares, A. Zhukov, V. Zhukova, J. Gonzalez, B. Hernando Magnetic properties of self-ordered array of FePd nanowires and self-assembled nanoholes in FePd thin films, International Conference on Magnetism (ICM), Karlsruhe, Alemania, 26/07/2009 (poster)
231. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, A. Zvezdin, : High Frequency Magneto Impedance in Amorphous Microwires, International Conference on Magnetism (ICM), Karlsruhe, Alemania, 26/07/2009 (poster)
232. A Chizhik, D N Merenkov, A Zhukov, J M Blanco, S L Gnatchenko and J. Gonzalez, "Magnetization reversal in thin glass covered amorphous microwires with helical anisotropy", International Conference on Magnetism (ICM), Karlsruhe, Alemania, AÑO: 26/07/2009, Journal of Physics: Conference Series 200 p. 082001, doi:10.1088/1742-6596/200/8/082001, 2010 (poster)

233. L. Panina, M. Ipatov, V. Zhukova, and A. Zhukov, Microwave Metamaterials Containing Magnetically Soft Microwires, Internacional, Conferences on Modern Materials and Technologies (CIMTEC 2010), Abstract book, p.105 (FM-1:L05), Montecatini Terme, Italy, AÑO: 13-18/06/2010 (oral)
234. M. Ilyn, A. Granovsky, V. Zhukova, J. Gonzalez and A. Zhukov, Magnetoresistance Of Granular Cu-Co Alloys Prepared In The Form Of The Glass-covered Microwires, IMAGENANO, Nanospain 2011, Book of abstracts, Bilbao, Spain, AÑO: 11-14/04/2011 (poster)
235. V. Zhukova, J.M Blanco, M.Ipatov and A. Zhukov, : Magnetoelastic contribution in domain wall dynamics of magnetically bistable microwires, INTERMAG 2011, IEEE, Transaction on Magnetism-Conferences., Taipei, Taiwan, AÑO: 25-29/04/2011 (oral)
236. F.X. Qin, H.X.Peng, L.V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, : Smart Composites with Short Ferromagnetic Microwires for Microwave Applications, Oral, INTERMAG 2011,book of asbtracts, IEEE, Transaction on Magnetism-Conferences, Taipei, Taiwan, AÑO: 25-29/04/2011(oral)
237. A. Chizhik, A. Zhukov, J. Blanco and J. Gonzalez, Circular domain walls motion in amorphous magnetic microwires.,Oral, INTERMAG 2011, IEEE, Transaction on Magnetism-Conferences, Taipei, Taiwan, AÑO: 25-29/04/2011 (oral)
238. A. Zhukov, M. Ipatov, J. Blanco, J. Gonzalez and V. Zhukova, Development of amorphous microwires with enhanced magnetic softness and improved giant magneto-impedance characteristics., Oral, INTERMAG 2011, book of asbtracts, IEEE, Taipei, Taiwan, AÑO: 25-29/04/2011 (oral)
239. V. Rodionova, V. Zhukova, M. Ilyn, M. Ipatov, N. Perov, J. Gonzalez, A. Zhukov, : Mechanisms of domain wall propagation in bistable glass-coated microwires, Poster, 8th International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2011), Physica B., Levico, Italy, AÑO: 9-11/05/2011 (poster)
240. L.V. Panina, M.Ipatov, V.Zhukova, A.Zhukov, : Domain wall propagation in Fe-rich amorphous microwires, Poster, 8th International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2011), PhysicaB doi:10.1016/j.physb.2011.06.047, Levico, Italy, AÑO: 9-11/05/2011 (poster)
241. V.Zhukova, J.M Blanco, M.Ipatov, A.Zhukov, : Magnetoelastic contribution in domain wall dynamics of amorphous microwires, Poster, 8th International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2011), PhysicaB, Levico, Italy, AÑO: 9-11/05/2011 (poster)
242. V.Zhukova, P. Umnov, V. Molokanov, A.N. Shalygin and A. Zhukov, : Studies of magnetic properties of amorphous microwires produced by combination of by quenching, glass removal and drawing techniques, TIPO DE PARTICIPACIÓN, International Conference for Materials and Applications for Sensors and Transducers, ICMAS-2011, Conference Proceedings book and at the book of abstracts, Cos, Grecia, AÑO: 13-17/05/2011 (poster)
243. R. Varga, T. Ryba, K. Saksl, V.Zhukova and A. Zhukov, : Fabrication and First Characterization of Ni₂MnGa Glass-coated Microwires, , International Conference for Materials and Applications for Sensors and Transducers, ICMAS-2011, Conference Proceedings book and at the book of abstracts, Cos, Grecia, AÑO: 13-17/05/2011 (oral)
244. A.B. Granovsky, V. Prudnikov, A. Kazakov, A.Zhukov, V. Zhukova, J. Gonzalez, I. Dubenko, : “Magnetic Properties of a New Family of Quaternary Ni-Mn-In-Z Heusler Alloys”, 1st International Conference on Electrodynamics of complex Materials for Advanced Technologies, 21-26 September 2011, Samarkand – Uzbekistan, Proceedings of International Conference on Electrodynamics of complex Materials for Advanced Technologies., P.37 (oral)
245. L. V. Panina, M. Ipatov, V. Zhukova, J. González and A. Zhukov,“Tuneable metamaterials containing arrays of magnetically soft microwires” (talk), 1st International Conference on Electrodynamics of complex Materials for Advanced Technologies, 21-26 September 2011, Samarkand – Uzbekistan, Proceedings of International Conference on Electrodynamics of complex Materials for Advanced Technologies., pp.41-42 (oral)
246. A. Kazakov, V. Prudnikov, A. Granovsky, N. Perov, I. Dubenko, A. Kumar Pathak, T. Somanta, S. Stadler, N. Ali, A. Zhukov, M. Ilyin, and J. Gonzalez, : “Phase Transitions, Magnetotransport and Magnetocaloric Effects in a New Family of Quaternary Ni-Mn-In-Z Heusler Alloys” poster, Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Conference book of abstracts, p. 173, Ordizia, Spain AÑO: 2-6/06/2011 (poster)

247. A. Zhukov, J.M. Blanco, M. Ipatov and V. Zhukova, : "Magnetoelastic contribution in domain wall propagation of micrometric wires" Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Conference book of abstracts, p.108, Ordizia, Spain AÑO: 2-6/06/2011
248. V. Zhukova, J.M. Blanco, V. Rodionova, M. Ipatov and A. Zhukov, "Domain wall propagation in micrometric wires: limits of single DW regime", talk; GRESO: 56th Magnetism and Magnetic Materials Conference, Conference book of abstracts, Scottsdale, AZ, 30 Oct- 3 Nov. 2011 (oral)
249. M. Ipatov, A. Zhukov, and V. Zhukova "GMI effect of thin magnetic wires at elevated frequencies", poster; 56th Magnetism and Magnetic Materials Conference, Conference book of abstracts, Scottsdale, AZ, 30 Oct- 3 Nov. 2011 (poster)
250. V. Rodionova, M. Ilyn, M. Ipatov, V. Zhukova, N. Perov, J. Gonzalez and A. Zhukov, "Spectral properties of emf induced by periodic magnetization reversal of arrays of coupled magnetic glass-covered microwires", poster; 56th Magnetism and Magnetic Materials Conference, Conference book of abstracts, Scottsdale, AZ (poster)
251. Yu.O.Mikhailovsky , A.P.Kazakov, V.N. Prudnikov, A.B.Granovsky, A.Zhukov, N.S. Perov, V.V.Rodionova, S. Hasanov, V.S. Larin, "A NOVEL FAMILY OF GLASS-COVERED MICROWIRES: Ni-Mn-In HEUSLER ALLOYS", Moscow International Symposium on Magnetism, MISM'11, August 21-25, 2011, book of abstracts, p.630 (poster)
252. P.Gawroński, J. Tomkowicz, A. Zhukov, V. Zhukova, J.M. Blanco and J. Gonzalez, "ON MAGNETOSTATIC INTERACTION IN REMAGNETIZATION PROCESS OF FE-RICH MICROWIRES", Moscow International Symposium on Magnetism, MISM'11, August 21-25, 2011, book of abstracts, p.831 (oral)
253. A.P.Kazakov, V.N. Prudnikov, A.B.Granovsky, M.V. Prudnikova, I.S. Dubenko, A.K. Pathak, N.Ali and A.P. Zhukov "ANOMALOUS AND ORDINARY HALL EFFECTS IN Ni-Mn-In-Z HEUSLER ALLOYS", Moscow International Symposium on Magnetism, MISM'11, August 21-25, 2011, book of abstracts, p.631 (poster)
254. V.N. Prudnikov, A.M. Saletsky, A.P. Kazakov, I.S. Dubenko, A.B. Granovsky, P.N. Kononov, O.S. Ivanova, M.V. Prudnikova, A.K. Pathak, N. Ali and A.P. Zhukov, "MAGNETOCALORIC EFFECT IN Ni-Mn-In BASED HEUSLER ALLOYS: DIRECT MEASUREMENTS OF ADIABATIC CHANGES OF TEMPERATURE NEAR PHASE TRANSITIONS", Moscow International Symposium on Magnetism, MISM'11, August 21-25, 2011, book of abstracts, p.626 (poster)
255. A. Chizhik, A. Zhukov, J. Blanco and J. Gonzalez, Magneto-optical study of domain wall dynamics and giant Barhausen jump in magnetic microwires., , Moscow International Symposium on Magnetism, MISM'11, book of abstracts, p.545, Moscow, AÑO: 21-25/08/2011 (oral)
256. M. Ipatov, V. Zhukova, J. Gonzalez and V. Zhukova "Effect of bias current on magnetoimpedance in amorphous microwires", Moscow International Symposium on Magnetism, MISM'11, Conference book of abstracts, p.618, Moscow, AÑO: 21-25/08/2011 (oral)
257. A. Chizhik, A. Zhukov, J. Gonzalez, "Magneto-optic study of composite magnetic microwires", Magnetism and Optics Research International Symposium for New Storage Technology (MORIS 2011), Nijmegen / Netherlands, AÑO: 21-24/06/2011
258. A. Chizhik, J. Gonzalez, A. Zhukov" Magneto-optical study of ferromagnetic Wires of Micro- and Nano- Scale", NANOSMAT Conference, Krakow, Poland AÑO: October 2011
259. A. Chizhik, A. Zhukov, J. González1, J. M. Blanco, "Magneto-optical study of magnetic microwires: domain structure, domain walls motion, magnetization reversal", IMAGINENANO, Bilbao 2011(oral)
260. M. Ilyn, A. Granovsky, V. Zhukova, J. Gonzalez and A. Zhukov, "Magnetoresistance Of Granular Cu-Co Alloys Prepared In The Form Of The Glass-covered Microwires" IMAGINENANO, Bilbao 2011 (poster)
261. V. Zhukova, M Ilyn, C. Garcia, R. Varga, J. J. del Val, A. Granovsky and A. Zhukov, "Magnetic and transport properties of granular Co-Cu glass-coated microwires", Trends in Nanotechnology International Conference (TNT2011), Tenerife, Spain, 21-25.11.2011
262. A. Zhukov, J.M. Blanco, M. Ipatov, V. Zhukova, "Effect of magnetoelastic anisotropy on domain wall dynamics in amorphous microwires ", Trends in Nanotechnology International Conference (TNT2011), Abstracts book, pp-135-136, Tenerife, Spain, 21-25.11.2011
263. A. Chizhik, A. Zhukov and J. Gonzalez, "Magnetic properties of sub-micrometric Fe-rich wires" 4-th International Conference on Nano-structures self-assembly (NANOSEA 2012), 25-29 June 2012, S. Margherita di Pula (Italy), Conference book of abstracts, p.21

264. V. Zhukova, J.M. Blanco, M. Ipatov and A. Zhukov, "Tailoring of domain wall dynamics in amorphous microwires" 4-th International Conference on Nano-structures self-assembly (NANOSEA 2012), 25-29 June 2012, S. Margherita di Pula (Italy), Conference book of abstracts, p.147
265. V. Zhukova, J. J. del Val, M. Ilyn, R.Varga, C. García, A. Granovsky and A. Zhukov "Magnetic and transport properties of Co-Cu microwires with granular structure", 4-th International Conference on Nano-structures self-assembly (NANOSEA 2012), 25-29 June 2012, S. Margherita di Pula (Italy), Conference book of abstracts, p.148
266. V. Zhukova, J.M. Blanco, V. Rodionova, M. Ipatov and A. Zhukov, "Fast magnetization switching in amorphous microwires: effect of magnetoelastic anisotropy and role of defects", 19-th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM – 2012), Moscow, Russia, June 18 - 22, 2012, Conference book of abstracts, p.209
267. L. González, V. Zhukova, M. Churyukanova, A. Talaat, S. Kaloshkin, B. Hernando, A. Zhukov, "Magnetic properties and GMI effect in Finemet-type glass-coated microwires" 19-th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM – 2012), Moscow, Russia, June 18 - 22, 2012, Conference book of abstracts, p.210
268. V. Zhukova, J.M. Blanco, V. Rodionova, M. Ipatov, A. Chizhik J. Gonzalez and A. Zhukov, "Manipulation of fast domain wall propagation in amorphous microwires ", "Effect of Magnetoelastic Anisotropy on Properties of Nanosturctured Microwires", International Conference on Nanostructured Materials, Nano 2012, August 26-31, 2012, Rodos (Grece), conference programme, p.28
269. J.M. Blanco, A. Chizhik, V. Rodionova, M. Ipatov, V. Zhukova, A. Talaat and A. Zhukov, "Manipulation of domain wall dynamics in microwires by transverse magnetic field" (AJ-02), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p. 40 (oral)
270. V. Zhukova, J. J. del Val, M. Ilyn, M. Ipatov, R. Varga, C. Garcia, A. Zhukov, "GMR effect in Co-Cu microwires" (PJ25), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.158 (poster)
271. A. Zhukov, M. Ipatov, A. Talaat, V. Zhukova, C. Garcia "GMI effect of amorphous microwires with enhanced magnetic softness" (CJ02), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.55 (oral)
272. A. Kazakov, V. Prudnikov, I. Rodionov, D. Mettus, N. Perov, A. Granovsky, A. Zhukov, J. Gonzalez, I. Dubenko, A. K. Pathak, T. Samanta, Sh. Stadler, Ph. Adam, J. Prestigiacomo and N. Ali "Magnetic, magnetotransport and magnetocaloric properties of quaternary Ni-Mn-In-Z Heusler alloys", (CH-01), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.54 (oral)
273. A. Chizhik, A. Zhukov and J. Gonzalez, "Magneto-optical study of magnetization reversal in sub-micrometric glass covered wires", (CJ04), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.56 (oral)
274. V. Rodionova, M. Ilyn, V. Zhukova, A. Granovsky, A. Aronin, G. Abrosimova and A. Zhukov, "Magnetic properties of heusler-type Ni-Mn-Ga glass-coated microwires", (SO04), the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.367 (poster)
275. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, A. Granovsky and A. Zhukov, "Temperature dependent structural and magnetic properties of Ni-Mn- In Heusler alloy glass-coated microwires" (SO27) the 19th International Conference on Magnetism, July 8 - 13, 2012 Busan, Korea, book of abstracts, p.371 (poster)
276. V. Zhukova, A.M. Aliev, T. Ryba, S. Michalik, Z. Vargova, R. Varga and A. Zhukov, "MAGNETIC PROPERTIES AND MCE OF NIMNGA GLASS-COATED MICROWIRES" (S4-08), 9th European Symposium on Martensitic Transformations ESOMAT 2012, Saint-Petersburg, Russia September 9-16, 2012 book of abstracts, p.70 (oral)
277. V. Zhukova, M Ilyn, J. J. del Val, M. Ipatov, A. Granovsky and A. Zhukov, "Magnetic and tranposrt properties of Cu-Co microwires" (S4-P14), 9th European Symposium on Martensitic Transformations ESOMAT 2012, Saint-Petersburg, Russia September 9-16, 2012 book of abstracts, p. 128 (poster)
278. V. Zhukova, J.M. Blanco, M. Ipatov, M. Churyukanova, S.Kaloshkin and A. Zhukov, "Manipulation of fast magnetization switching in magnetically bistable microwires through the

- magnetoelastic anisotropy” (2Pps-2), the 2nd International Conference of AUMS, Nara Japan, 2-5 October, 2012, book of abstracts, p. 39 (poster)
279. A. Zhukov, M. Ipatov, V. Zhukova, ”Development of soft magnetic microwires with Giant magnetoimpedance effect for magnetic field detection applications”, (4Pb-03), the 2nd International Conference of AUMS, Nara Japan, 2-5 October, 2012, book of abstracts, p. 257 (oral)
 280. V. Zhukova, A. Talaat, L. González, S. Kaloshkin, M. Churyukanova, B. Hernando, A. Zhukov, “GMI effect in glass-coated microwires with nanocrystalline structure”, Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012, programme book, p. 64 (oral)
 281. S. Gudoshnikov, N.i A. Usov, A. Ignatov, V. Tarasov, A. P. Zhukov V. Zhukova, “Ferromagnetic Microwire Usage for Magnetic Tags”, Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012, programme book, p. 64 (oral)
 282. L. Gonzalez ,T. Sanchez, J. D. Santos, M. L. Sanchez, B. Hernando A. Chizhik, L. Dominguez, J. M. Blanco, V. Zhukova Spain); M. Ipatov, A. P. Zhukov , J. Gonzalez, “GMI Effect in Co-based Amorphous Ribbons Obtained under the Action of a Magnetic Field”, Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012, programme book, p. 64 (oral)
 283. A. P. Zhukov, M. Ipatov, V. Zhukova, “Tailoring of Frequency and Magnetic Field Dependence of Giant Magnetoimpedance Effect in Thin Wires”, Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012, programme book, p. 66 (poster)
 284. A. Zhukov, M. Churyukanova, L. Gonzalez-Legarreta, A. Talaat, V. Zhukova, B. Hernando, M. Ilyn, J. Gonzalez and S. Kaloshkin, “Influence of Magnetoelastic Anisotropy on Properties of nanostructured Microwires” (paper 27), 2012 International Conference on Nano Materials and Electric Devices (ICNMED 2012), December 19-20, 2012, Hong Kong, programme book, p. 8 (oral)
 285. L. González-Legarreta, V. M. Prida, B. Hernando, M. Ipatov, V. Zhukova, A.P. Zhukov, L. Domínguez and J. González, “Recent research on the magnetoimpedance effect in Co-based amorphous ribbons” (paper 74), 2012 International Conference on Nano Materials and Electric Devices (ICNMED 2012), December 19-20, 2012, Hong Kong, programme book, p. 8 (oral)
 286. M. Ilyn, V. Zhukova, C. Garcia,J. del Val, M. Ipatov, A. Granovsky and A. Zhukov, “Kondo effect and magnetotransport properties in Co-Cu microwires” (EB-11), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p.107 (oral)
 287. I. Dubenko, T. Samanta, A. Quetz, A. Kazakov, I. Rodionov, D. Mettus, V. Prudnikov, S. Stadler, P. Adams, J. Prestigiacomo, A. Granovsky, A. Zhukov and N. Ali, (EV-01), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p.133 (poster)
 288. A. Zhukov, J. Blanco, V. Rodionova, M. Ipatov and V. Zhukova, “Fast domain wall propagation in micrometric wires: effect of magnetoelastic anisotropy and role of defects.” (FC-05), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p. 141 (oral)
 289. A. Chizhik, A. Zhukov, A. Stupakiewicz, A. Maziewski and J. Gonzalez, “High frequency electric current influence on magnetization reversal and domain structure in Co-rich amorphous microwires”,(FC-11), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p. 142 (oral)
 290. V. Zhukova, P. Umnov, V. Molokanov, A. Shalygin and A. Zhukov, “Magnetic properties and GMI effect of ductile amorphous microwires”, (FV15), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p.168 (poster)
 291. V. Zhukova, A.M. Aliev, T. Ryba, S. Michalik, Z. Vargova, R. Varga and A. Zhukov, “Magnetic properties and MCE in Heusler-type glass-coated microwires” (GC-08), International Magnetics Conference, INTERMAG 2012, Vancouver (Canada)May 7th - May- 11th, 2012, programme book, p. 174 (oral)
 292. K. Chichay, V. Zhukova, V. Rodionova, M. Ipatov, A. Taalat, J.M. Blanco, A. Zhukov, Título ponencia: Tailoring of domain wall dynamics in amorphous microwires by annealing. Nombre: 12TH Joint MMM/Intermag Conference 2013, Tipo de Contribución: (HG-01), inicio y finalización: 14/01/2013 a 18/01/2013, Localidad: Chicago, Illinois (USA) (oral)

293. A. Talaat, M. Ipatov, L. González-Legarreta, J. Garcia, A. Chizhik, L. Dominguez, V. Zhukova, A. Zhukov, B. Hernando and J. González, "Magnetoimpedance response of stressannealed Co-based non-magnetostrictive amorphous ribbons" Second Euro Mediterranean Meeting on Functionalized Materials" (Hammamet, Tunisia, March 2013), Conference book of abstracts, p.35 (oral)
294. M. Ipatov, L. Panina, V. Zhukova, A. Zhukov, "Tuneable metamaterials containing soft ferromagnetic wires" (oral, Session 2A8-AES), 2nd Advanced Electromagnetics Symposium, AES 2013 Sharjah - United Arab Emirates, March 19-22, 2013, University of Sharjah, Sharjah, United Arab Emirates, Conference programme and abstracts book, p.21 (oral)
295. A. Zhukov, M. Ipatov, M. Churyukanova, S. Kaloshkin, V. Zhukova, "Giant magnetoimpedance in thin amorphous and nanocrystalline microwires", (Session 4P1-7, poster) The 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics, March 19-22, 2013, University of Sharjah, Sharjah, United Arab Emirates, Conference programme and abstracts book, p.56 (poster)
296. A. Talaat, V. Zhukova, M. Ipatov, M. Churyukanova, S. Kaloshkin, A. Zhukov, "GMI effect in nanocrystalline magnetic wires", DAYS ON DIFFRACTION 2013 INTERNATIONAL CONFERENCE, Saint Petersburg, May 27 – 31, 2013, pp.160-161 (oral)
297. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, M. Churyukanova, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, V. Sudarchikova, L. Gonzalez-Legarreta, B. Hernando and A. Zhukov "Giant Magnetoimpedance Effect in Nanocrystalline Microwires" (poster), Progress In Electromagnetics Research Symposium, PIERS 2013 Stockholm, August 12-15, 2013
298. M. Ipatov V. Zhukova, A. Zhukov, J. Gonzalez "Development and Optimization of High Sensitive Magnetometer Based on Diagonal Magnetoimpedance Effect" Progress In Electromagnetics Research Symposium, PIERS 2013 Stockholm, August 12-15, 2013 (oral)
299. A. Chizhik, A. P. Zhukov J. Gonzalez, "Magneto-optical Investigations of Co- and Fe-rich Composite Glass Covered Microwires" Progress In Electromagnetics Research Symposium, PIERS 2013 Stockholm, August 12-15, 2013 (oral)
300. A. P. Zhukov, M. Ipatov, V. Zhukova, "Optimization of Giant Magnetoimpedance Effect in Thin Composite Microwires", Progress In Electromagnetics Research Symposium, PIERS 2013 Stockholm, August 12-15, 2013 (oral)
301. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, M. Churyukanova, S. Kaloshkin, E. Kostitcyna, E. Shuvaeva, V. Sudarchikova, L. Gonzalez-Legarreta, B. Hernando and A. Zhukov, "Magnetic Properties and Giant Magnetoimpedance in Amorphous and Nanocrystalline microwires", 15th Czech and Slovak Conference on Magnetism CSMAG'13, 17 – 21 June, 2013 KOŠICE (poster P2-54)
302. A. Tallat, M. Ipatov, V. Zhukova, J.M. Blanco, A. Zhukov, Título: Off-diagonal magneto impedance in Co-rich amorphous microwires, Donosita Internacional Conference on Nanoscaled Magnetism and Applications, 9/09/2013 a 13/09/2013, Localidad: San Sebastián
303. P. Gawronski, V. Zhukova, A. Zhukov, J.M. Blanco, J. González, "Domain wall dynamics and domain wall shape in fe-rich microwires", Donosita Internacional Conference on Nanoscaled Magnetism and Applications, 9/09/2013 a 13/09/2013, Localidad: San Sebastián
304. A. Talaat, M. Ipatov, V. Zhukova, J.M. Blanco, M. Churyukanova, S. Kaloshkin, A. Zhukov, "Giant magneto-impedance in thin finemet nanocrystalline microwires", Donosita Internacional Conference on Nanoscaled Magnetism and Applications, 9/09/2013 a 13/09/2013, San Sebastián
305. K. Chichay, V. Rodionova, M. Ipatov, V. Zhukova, J.M. Blanco, A. Zhukov, "Effect of annealing time and temperature on velocity of the doamin wall propagation in magnetically bistable microwires." Donosita Internacional Conference on Nanoscaled Magnetism and Applications, 9/09/2013 a 13/09/2013, San Sebastián
306. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov, V. Zhukova, "Effect of composite origin on magnetic properties of glass-coated microwires" 58th Magnetism and Magnetic Materials Conference, Denver, Colorado, 4–8 November 2013 (Poster, AR-08)
307. V. Zhukova, M. Ipatov, A. Talaat, A. Granovsky, J.J. del Val and A. Zhukov, "Magnetic properties of Ni-Mn-In Heusler-type glass-coated microwires", 58th Magnetism and Magnetic Materials Conference, Denver, Colorado, 4–8 November 2013 (Poster, FQ11)
308. V. Zhukova, J.M. Blanco, M. Ipatov and A. Zhukov, "Magnetic properties and domain wall propagation in FeNiSiB glass-coated microwires", 58th Magnetism and Magnetic Materials Conference, Denver, Colorado, 4–8 November 2013 (Oral, CG-11)

309. A. Talaat, V. Zhukova, M. Ipatov, J. M. Blanco, L. Gonzalez-Legarreta, B. Hernando, J.J. del Val, J. Gonzalez and A. Zhukov "Optimization of the GMI effect of Finemet-type microwires through the nanocrystallization", 58th Magnetism and Magnetic Materials Conference, Denver, Colorado, 4-8 November 2013 (Oral G-09)
310. V. Zhukova, A. Talaat, M. Ipatov, J. M. Blanco, M-H. Phan and A. Zhukov, "Effect of annealing on magnetic properties and Giant magnetoimpedance effect of amorphous microwires", International Symposium on Frontiers in Materials Science, (FMS 2013), 17- 19th November 2013, Ha Noi, VietNam, Conference book of abstracts, p.121-122 (poster)
311. A. Zhukov, M. Ilyn, J. J. del Val, A. Granovsky and V. Zhukova, "Kondo-like Behaviour, Magnetic and Transport Properties of Co-Cu Microwires", International Conference on Surfaces, Coatings and Nanostructured Materials, **NANOSMAT-2013, Granada, 22-25 September 2013 (oral, NANO-595)**
312. A. Talaat, V. Zhukova, M. Ipatov, J. Blanco, A. Zhukov, "Effect of annealing on magnetic properties and Giant magnetoimpedance effect of amorphous microwires", Seventh International Conference on Sensing Technology (ICST), December 3 – 5-th, 2013, Wellington, New Zealand. (oral)
313. A. Talaat, V. Zhukova, M. Ipatov, L. Gonzalez-Legarreta, B. Hernando, A. Zhukov "Effect of nanocrystallization on Giant magnetoimpedance effect of microwires", Seventh International Conference on Sensing Technology (ICST), December 3 – 5-th, 2013. Wellington, New Zealand. (oral)
314. A. Talaat, M. Ipatov, V. Zhukova, L. Gonzalez-Legarreta, V. Prida, B. Hernando, J. Gonzalez, A. Zhukov, "Soft Magnetic Amorphous Ribbons with High Frequency Magnetoimpedance for Sensors", Seventh International Conference on Sensing Technology (ICST), December 3 – 5-th, 2013. Wellington, New Zealand. (oral)
315. Valentina Zhukova, Ahmed Talaat, Mihail Ipatov, Juan Blanco, Margarita Churyukanova, Sergei Kaloshkin, Elena Kostitcyna, Evgeniahuvaeva, Lorena Gonzalez-Legarreta, Blanca Hernando, Arcady Zhukov, "Magnetic properties and giant magnetoimpedance effect in nanocrystalline microwires" (J34), TMS 2014 143rd ANNUAL MEETING & EXHIBITION , 16/02/2014 - 20/02/2014, San Diego (California, USA), TMS final programme, p. 264
316. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco and V. Zhukova, "Effect of Annealing on Off-diagonal GMI Effect of Co-rich Amorphous Microwires", (HH-04), IEEE International Magnetism Conference, INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.240 (oral)
317. V. Zhukova, V. Rodionova, L. Fetisov, A. Grunin, A. Goikhman, A. Torcunov, A. Aronin, G. Abrosimova, A. Kiselev, N. Perov, A. Granovsky, T. Ryba, S. Michalik, R. Varga and A. Zhukov, "Magnetic Properties of Heusler-type Microwires and Thin Films", (EV-16), IEEE International Magnetism Conference, INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.161 (poster)
318. A. Chizhik, A. Stupakiewicz, A. Zhukov, A. Maziewski, J. Gonzalez, V. Zablotskii, "Manipulation of magnetic domain structures with helical magnetization in magnetic microwires", (BF-04), IEEE International Magnetism Conference, INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.67 (oral)
319. A. Talaat, J. M. Blanco, M. Ipatov, V. Zhukova, A. Zhukov "Domain Wall Propagation in Co-Based Glass-Coated Microwires: Effect of Stress Annealing And Tensile Applied Stresses", poster (HX-01), IEEE International Magnetism Conference, INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.259
320. K. Chichay, S. Kaloshkin, M. Churyuknova, V. Rodionova, V. Zhukova and A. Zhukov, "Investigation of saturation magnetostriction constant of amorphous ferromagnetic glass coated microwires", IEEE International Magnetism Conference, (HX-19), INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.259 (poster)
321. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, A. Talaat, M. Ipatov, J. Gonzalez, V. Zhukova, "Studies of the Defects Influence on Magnetic Properties of Glass-coated Microwires", IEEE International Magnetism Conference, (HX-09), INTERMAG Europe 2014, Dresden, Germany, May 4th -8th, 2014, Conference programme, p.260 (poster)
322. A. Talaat, M. Ipatov, V. Zhukova, A.P. Zhukov, J. González1, L. González-Legarreta2, V.M. Prida and B. Hernando, "MAGNETOIMPEDANCE TENSOR OF Co-RICH NON-MAGNETOSTRICTIVE AMORPHOUS RIBBONS" (Abstract ID: 2288), 4th International

- Conference on Superconductivity and Magnetism- ICSM2014, Antalya, Turkey, 27.04-02.05. 2014, Abstract book, p.360 (oral)
323. K.Chichay, V.Rodionova, V.Zhukova, M.Ipatov and A.Zhukov, "EFFECT OF GLASS TYPE AND DIAMETERS RATIO OF METALLIC NUCLEUS TO TOTAL GLASS COATED AMORPHOUS CoFe-BASED MICROWIRES ON DOMAIN WALL DYNAMICS (Abstract ID: 2207) 4th International Conference on Superconductivity and Magnetism- ICSM2014, Antalya, Turkey, 27.04-02.05. 2014, Abstract book, p.418 (poster)
 324. V. Zhukova, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov and A. Zhukov, "INFLUENCE OF THE DEFECTS ON MAGNETIC PROPERTIES OF GLASS-COATED MICROWIRES" (Abstract ID: 1659), 4th International Conference on Superconductivity and Magnetism- ICSM2014, Antalya, Turkey, 27.04-02.05. 2014, Abstract book, p.917 (poster)
 325. A. Chizhik, M. Ipatov, A. Zhukov and J. Gonzalez, "MAGNETO-ELECTRIC AND MAGNETO-OPTICAL PROPERTIES OF MAGNETIC MICROWIRES IN PRESENCE OF SUPER HIGH FREQUENCY ELECTRIC CURRENT" (Abstract ID: 1684), 4th International Conference on Superconductivity and Magnetism- ICSM2014, Antalya, Turkey, 27.04-02.05. 2014, Abstract book, p.969 (poster)
 326. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov, V. Zhukova, "Studies of interfacial layer and its effect on magnetic properties of glass-coated microwires", (session 3a), 22nd ANNUAL INTERNATIONAL CONFERENCE ON COMPOSITES OR NANO ENGINEERING, Malta 13-19-th 2014 (oral)
 327. V. Zhukova, M.Ipatov, A. Talaat, A. Granovsky, J.J. del Val and A. Zhukov, "Studies of magnetic properties of Ni-Mn-In Heusler-type glass-coated microwires", (session 3a)22nd ANNUAL INTERNATIONAL CONFERENCE ON COMPOSITES OR NANO ENGINEERING, Malta July 13-19-th 2014 (oral)
 328. V. Zhukova, E. Shuvaeva, M. Churyukanova, S. Kaloshkin, A. Talaat, M. Ipatov, A. Zhukov, "Influence of the defects on magnetic properties of glass-coated microwires" (IPO-P-8), Moscow International Symposium on Magnetism "MISM 2014", in Moscow, June 2014 (poster)
 329. K. Chichay, V. Rodionova, M. Ipatov, V. Zhukova, A. Zhukov, "Manipulation of magnetic properties and domain wall dynamics of amorphous ferromagnetic $\text{Co}_{68.7}\text{Fe}_4\text{Ni}_1\text{B}_{13}\text{Si}_{11}\text{Mo}_{2.3}$ microwire by changing of annealing temperature" (30OR-F-12), Moscow International Symposium on Magnetism "MISM 2014", in Moscow, June 2014 (oral)
 330. A. Chizhik, M. Ipatov, A. Zhukov, J. Gonzalez, A. Stupakiewicz A. Maziewski, V. Zablotskii, "TEMPERATURE-INDUCED TRANSFORMATION OF DOMAIN STRUCTURES IN MAGNETIC MICROWIRES" (IPO-P-10), Moscow International Symposium on Magnetism "MISM 2014", in Moscow, June 2014 (poster)
 331. A. Zhukov, A. Talaat, M. Ipatov, V. Zhukova, "High Frequency Giant Magnetoimpedance Effect of amorphous microwires for magnetic sensors applications", 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, International Journal on Smart Sensing and Intelligent Systems, (2014) Proceedings of the 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, UK, pp.624-629
 332. V. Zhukova J. J. del Val, M. Ipatov, M. Ilyn , A. Granovsky and A. Zhukov "Magnetic and Transport properties of Co-Cu Microwires", 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, International Journal on Smart Sensing and Intelligent Systems, (2014) Proceedings of the 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, UK, pp.332-337
 333. A. Chizhik, J. Gonzalez ,A. Zhukov, A. Stupakiewicz, A. Maziewski "Magneto-optical study of microwire in presence of magnetic field of super high frequency Glass Coated Microwires for Sensor Application ", 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, International Journal on Smart Sensing and Intelligent Systems, (2014) Proceedings of the 8th International Conference on Sensing Technology, Sep. 2-4, 2014, Liverpool, UK, pp.630-633
 334. V. Zhukova, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, A. Talaat, M. Ipatov, A. Zhukov, "Study of interfacial layer and its influence on magnetic properties of glass-coated microwires ",the Nanomaterials 2014 Conference, Nancy, France, September 8-11, 2014, Institut Jean Lamour
 335. V. Zhukova, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov, A. Zhukov, "Influence of the defects on magnetic properties of glass-coated

- microwires" (CT22) Abstract book p.67, Science and Applications of Thin Films, Conference and Exhibition (SATF2014), Cesme, Izmir, Turkey, September 15-19, 2014, www.satf2014.org (oral)
336. V. Zhukova, M. Ilyn, J. J. del Val, A. Granovsky and A. Zhukov, "Preparation, Magnetic and Transport Properties of Co-Cu Microwires" Science and Applications of Thin Films, Conference and Exhibition (SATF2014), Cesme, Izmir, Turkey, September 15-19, 2014, www.satf2014.org
 337. V. Zhukova, M. I. Ipatov, A. Talaat, J. M. Blanco and A. Zhukov, "High Frequency Giant Magnetoimpedance Effect of amorphous microwires", The 8th Energy, Materials, and Nanotechnology (EMN) Meeting, November 22 to 25, 2014, Orlando, Florida, USA, <http://www.emnfall.org/2014/>
 338. A. Talaat, V. Zhukova², M. Ipatov, J. M. Blanco, P. Klein, R. Varga, L. Gonzalez-Legarreta, B. Hernando, and A. Zhukov "Magnetic Properties of Nanocrystalline Microwires" TMS 2015 144th ANNUAL MEETING & EXHIBITION, **March 15-19, 2015, Orlando, Florida, USA**, TMS TMS collected proceedings, **Energy Technology 2015 Carbon Dioxide Management and Other Technologies**, pp.283-289
 339. A. Zhukov, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and V. Zhukova, "Studies of High Frequency Giant Magnetoimpedance Effect in Co-rich Amorphous Microwires" IEEE International Magnetism Conference, Beijing, China, May 11-15, 2015 (oral, CD-05)
 340. V. Zhukova, V. Chernenko, M. Ipatov and A. Zhukov "Magnetic Properties of Heusler-type NiMnGa Glass-coated Microwires", IEEE International Magnetism Conference, Beijing, China, May 11-15, 2015 (poster, BS-01)
 341. A. Chizhik, A. Stupakiewicz, A. Maziewski, A. Zhukov, J. Gonzalez, "Multi-domain structures in magnetic microwire" IEEE International Magnetism Conference, Beijing, China, May 11-15, 2015 (poster **ER-09**, Article number 7157157)
 342. A. Zhukov, M. Ipatov, A. Talaat, M. Churyukanova and V. Zhukova, "High Frequency Giant Magnetoimpedance Effect of Soft Magnetic Amorphous Microwires", International Conference on Electromagnetics in Advanced Applications (ICEAA), 2015, Torino, Sept 2015, IEEE Explore, pp. 1307 – 1310, DOI: 10.1109/ICEAA.2015.7297327
 343. V. Zhukova, A. Talaat, M. Ipatov, J. J. del Val, J. M. Blanco, and A. Zhukov, "Optimization of soft magnetic properties in nanocrystalline glass-coated microwires (poster)", TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015; Doha; Qatar; 11 January 2015 through 14 January 2015; Code 112225, Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015, 2015, Pages 157-164
 344. V. Zhukova, M. Ipatov, A. Aronin, G. Abrosimova, A. Kiselev and A. Zhukov "Studies of magnetic properties of Ni-Mn-In-Co heusler-type glass-coated microwires", TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015; Doha; Qatar; 11 January 2015 through 14 January 2015; Code 112225, Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015 2015, Pages 149-155, (oral)
 345. V. Zhukova, A. Talaat, J. J. del Val, M. Ipatov and A. Zhukov "Preparation and characterization of Fe-Pt and Fe-Pt-M (M=B, Si) microwires", The 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials, Paris, 13-17 July 2015 (poster)
 346. V. Zhukova, M. Ipatov, A. Talaat, J. M. Blanco, and Arcady Zhukov, "Studies of High Frequency Giant Magnetoimpedance Effect of amorphous microwires", 1st International Conference on Applied Mineralogy & Advanced Materials - AMAM2015, Castellana Marina (Taranto), Italy, June 7-12, 2015, Scientific Research Abstracts Vol. 4, p. 132, 2015
 347. A. Chizhik, A. Zhukov, J. Gonzalez, A. Stupakiewicz and A. Maziewski, "SYSTEMATIC MAGNETO-OPTICAL STUDY OF AMORPHOUS MICROWIRES FOR SENSORS AND ACTUATORS APPLICATION" 1st International Conference on Applied Mineralogy & Advanced Materials - AMAM2015, Castellana Marina (Taranto), Italy, June 7-12, 2015, Scientific Research Abstracts Vol. 4, p. 128, 2015
 348. L. González-Legarreta, V. M. Prida, B. Hernando, M. Ipatov, V. Zhukova, A. P. Zhukov, L. Domínguez, J. González, "Recent research on the magnetoimpedance effect in Cobased amorphous ribbons", 1st International Conference on Applied Mineralogy & Advanced Materials, - AMAM2015, Castellana Marina (Taranto), Italy, June 7-12, 2015, Scientific Research Abstracts Vol. 4, p. 135

349. A. Zhukov, A. Talaat, J.M. Blanco, M. Ipatov and V. Zhukova, “Features of amorphous microwires with spontaneous and induced magnetic bistability” (Abstract: 27212), Soft Magnetic Materials Conference - SMM22, Sao Paulo, Barzil, September 13-16, 2015 (oral)
350. V. Zhukova, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, M. Ipatov, A. Talaat, J.M. Blanco and A. Zhukov, “ Optimization of soft magnetic properties in Fe-Ni based magnetic microwires” (Abstract: 27218), Soft Magnetic Materials Conference - SMM22, Sao Paulo, Barzil, September 13-16, 2015 (poster)
351. Abd El-Moez A. Mohamed, V. Vega, A. Deltell, M. Ipatov, L. Escoda, N. Llorca, J.J. Suñol, V.M. Prida, V. Zhukova, A. Zhukov, J. González, B. Hernando , “Spontaneous exchange bias in $\text{Ni}_{50}\text{Mn}_{36}\text{Sn}_{14}$ Heusler alloy ribbons”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (oral)
352. A. Talaat, J. Alonso, M. H. Phan, V. Zhukova, A. Zhukov, “Exploiting the inductive heating properties of Fe-based glass-coated microwires for advanced magnetic hyperthermia”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (oral)
353. A. S. Ignatov, S. A. Gudoshnikov, V. P. Tarasov, A. V. Popova, M. Ipatov, V. Zhukova, A. Zhukov and N. A. Usov, “Investigation of Fe-rich amorphous ferromagnetic microwires under the influence of applied tensile stresses”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
354. V. Zhukova, V. Chernenko, M. Ipatov and A. Zhukov, “Tailoring of magnetic properties in Heusler-type NiMnGa glass-coated microwires”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
355. A. Zhukov, M. Ipatov, A. Talaat, J.M. Blanco and V. Zhukova, “Tailoring of magnetic properties and GMI effect in thin amorphous wires”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
356. A. Talaat, J. J. del Val, V. Zhukova, M. Ipatov, P. Klein , R. Varga, J. González, and A. Zhukov” Microstructural impact on the magnetization process of Hitperm glass-coated microwires ” , Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
357. J. Mino, A.Zhukov, V.Zhukova, J. J. del Val, M. Ipatov, R. Varga, ”Annealing effects on the GMR microwires with CuCo composition “,Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
358. V. Zhukova, A. Talaat, J.J. del Val, M. Ipatov and A. Zhukov, “Preparation and characterization of Fe-Pt and Fe-Pt-M (M=B, Si) microwires”, Donostia International Workshop on Energy, Materials and Nanotechnology – DINEMN, Donostia-San Sebastian, 1st to 4th September 2015 (poster)
359. A. Zhukov, E. Shuvaeva, S. Kaloshkin, M. Churyukanova, E. Kostitcyna, V. Sudarchikova, A. Talaat, M. Ipatov, V. Zhukova, “Studies of interfacial layer and its effect on magnetic properties of glass-coated microwires”, The International Workshop on Nanoscience and Nanotechnology: Opportunities for Academia & High Tech Industry Joint 4th Asia-Pacific Chemical and Biological Microfluidics Conferences (IWNN-APCBM 2015), 2-4 November 2015 – Da Nang, Vietnam (poster)
360. V. ZHUKOVA, A. TALAAT, J. J. DEL VAL, M. IPATOV, and A. ZHUKOV, “Preparation and characterization Fe-Pt and Fe-Pt-M (M=B, SI) microwires” *TMS 2016 145th Annual Meeting & Exhibition (Nashville, Tennessee)*, 14-18 February, 2016 (oral)
361. V. Zhukova, M. Churyukanova, S. Kaloshkin, V. Sudarchikova, M. Ipatov, A. Talaat, J.M. Blanco and A. Zhukov, ” Tailoring of magnetic softness of Fe-Ni based magnetic microwires”, *TMS 2016 145th Annual Meeting & Exhibition (Nashville, Tennessee)*, 14-18 February, 2016 (poster)
362. V. Zhukova, J. Mino, J. J. Del Val, M. Ipatov, R. Varga, M.N. Baibich, G. Martinez, A. Granovsky and A. Zhukov, GMR and Kondo Effects in Cu-Co Microwires, 5th International Conference on Superconductivity and Magnetism- ICSM2016, Fethiye, Turkey, 24.04-30.04. 2016 (oral), abstract book p.332

363. S.A. Gudoshnikov, A.S. Ignatov, A.V. Popova, S.A. Menshov, O.N. Serebryakova and N.A. Usov, ELECTROMAGNETIC SPECTROSCOPY OF AMORPHOUS FERROMAGNETIC MICROWIRES, 5th International Conference on Superconductivity and Magnetism- ICSM2016, Fethiye, Turkey, 24.04-30.04. 2016 (oral), abstract book p. 324
364. V. Vega, Abd El-Moez, A. Mohamed, M. Ipatov, V. M. Prida, A. Chizhik, V. Zhukova, A.P. Zhukov, B. Hernando and J. González, Giant Magnetoimpedance Effect in Co_{66.5}Fe_{3.5}Si_{12.0}B_{18.0} Amorphous Ribbons Layered with Co Film, 5th International Conference on Superconductivity and Magnetism- ICSM2016, Fethiye, Turkey, 24.04-30.04. 2016 (oral), abstract book p.194
365. V. Zhukova, O.A. Korchuganova, A.A. Aleev, V.V. Tcherdyntsev, M.N. Churyukanova, E.V. Medvedeva, S. Seils, J. Wagner, J.M. Blanco, M.Ipatov, S.D. Kaloshkin, and A. Zhukov, Magnetic properties and defects of Fe-Ni based magnetic, 9th International Conference on Fine Particle Magnetism, National Institute of Standards and Technology Gaithersburg, Maryland, USA (Washington D.C. area, USA) June 13-17, 2016 (oral)
366. V. Zhukova, J.Mino, J. J. Del Val, J. M. Blanco, J. Gonzalez, M. Baibich, G. Martinez, M. Ipatov, R. Varga, Arcady Zhukov, GMR Effect in Co-Cu Microwires, 9th International Conference on Fine Particle Magnetism, National Institute of Standards and Technology Gaithersburg, Maryland, USA (Washington D.C. area, USA) June 13-17, 2016 (oral)
367. A. Zhukov, M. Ipatov, A. Talaat, V. Zhukova, Frequency and magnetic field dependence of the skin depth in Fe- and Co-rich soft magnetic microwires, The 4th Advanced Electromagnetics Symposium, AES 2016, July 28-28, 2016, Malaga – Spain (poster)
368. V. Zhukova, A. Talaat, M. Ipatov, A. Zhukov, Engineering of giant magnetoimpedance effect of amorphous and nanocrystalline microwires, The 4th Advanced Electromagnetics Symposium, AES 2016, July 28-28, 2016, Malaga – Spain (oral)
369. V. A. Zhukova, M. Ipatov and A. Zhukov, Effect of Annealing on GMI Effect of Co-rich Amorphous Microwires, Tenth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, Chania, Crete, Greece, 17-22 September 2016 (poster)
370. A. P. Zhukov, M. Ipatov, and V. A. Zhukova, Studies of Giant Magnetoimpedance Effect in Soft Magnetic Microwires at GHz Frequencies, Tenth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, Chania, Crete, Greece, 17-22 September 2016 (poster)
371. V. Zhukova, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and A. Zhukov,” Effect of stress annealing on magnetic properties and GMI effect of Co- and Fe-rich microwires” 23rd International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2016), Nara, Japan, July 3-8, 2016 (poster)
372. **A. Zhukov**, J. M. Blanco, G. Abrosimova, A. Aronin, M. Churyukanova, M.Ipatov, S. Kaloshkin, and V. Zhukova, Effect of annealing on magnetic properties and domain wall dynamics of Fe-Ni based magnetic microwires, Trends in Nanotechnology (TNT2016) International Conference ,Fribourg-Switzerland, September 05-09, 2016(oral).
373. A. Zhukov, J. Mino, J. J. Del Val1, J. M. Blanco, J. Gonzalez, M. Baibich, G. Martinez, M. Ipatov, R. Varga, V. Zhukova, GMR Effect in Co-Cu Microwires Microwires, Trends in Nanotechnology (TNT2016) International Conference ,Fribourg-Switzerland, September 05-09, 2016(oral).
374. V. Zhukova, M. Ipatov, A. Talaat, J. M. Blanco and A. Zhukov, Engineering of magnetic properties and GMI effect of Co- and Fe-rich microwires by annealing, IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (oral)
375. A. Chizhik, J. Gonzalez, A. Zhukov, A. Stupakiewicz, Reversible Switching of Magnetic States in Amorphous Microwires , IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (oral)
376. A. Chizhik, V. Vega, A.Mohamed, V. Prida, T. Sánchez, B. Grande, M. Ipatov, V. Zhukova, A. Zhukov, L. Domínguez, J. Gonzalez, Surface magnetic properties and giant magnetoimpedance

- effect in Co-based amorphous ribbons, IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (oral)
377. I. Koshkidko; S. Pandey; A. Quetz; A. Aryal; I. Dubenko; J. Cwik; E. Dilmieva; A. Granovsky; E.Lähderanta; A. Zhukov; S. Stadler; N. Ali, Direct and Inverse Magnetocaloric Effects in Metamagnetic Ni -Mn-In-based Alloys in High Magnetic Fields, IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (poster)
 378. K. Chichay; V.V. Rodionova; V. Zhukova; N.S. Perov; A.Zhukov, Domain wall dynamics controlled through magnetoelastic interaction, IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (poster)
 379. Y. Luo; F. Qin; F. Scarpa; M. Ipatov; A.Zhukov; H. Peng, A double-negative waveguide metacomposite enabled by ferromagnetic microwires, IEEE International Magnetism Conference, Dublin, Ireland, 24th – 28th April 2017 (poster)
 380. A. Sokolov, A. Novikov, E. Ganshina, A. Quetz, S. Pandey, A. Aryal, I. Dubenko, S. Stadler, N. Ali, I. Titov, I. Rodionov, A.P. Zhukov, A. Granovsky, E. Lahderanta, E. Kirianov, N. Al-Aqtash and R. Sabirianov, Magneto-optical spectra of Ni-Mn-In-Si based Heusler alloys thin films in martensitic and austenitic states, 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, (USA), Oct.31-Nov.4, 2016 (poster)
 381. V. Zhukova, J. Blanco, A. Chizhik, M. Ipatov and A.P. Zhukov, Current induced domain wall propagation in Co-rich amorphous microwires, 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, (USA), Oct.31-Nov.4, 2016 (oral)
 382. V. Zhukova, J. Mino, J. del Val, R. Varga, G. Martinez, M. Baibich and A.P. Zhukov, Kondo-like behaviour and GMR effect in granular Co-Cu microwires., 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, (USA), Oct.31-Nov.4, 2016 (oral)
 383. Y. Luo, F. Scarpa, F. Qin, M. Ipatov, A. Zhukov and H. Peng, Left-handed metacomposites containing carbon fibers and ferromagnetic microwires. 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, (USA), Oct.31-Nov.4, 2016 (oral)
 384. V. Zhukova, J. Mino, J. J. del Val, J. Gonzalez, M. Baibich, G. Martinez, M. Ipatov, R. Varga, A. Zhukov, Effect of Annealing on GMR Effect in Co-Cu Microwires, X Congreso Iberoamericano de Sensores (IBERSENSOR 2016), Viña del Mar 26-28 October, 2016 (oral)
 385. A. Zhukov, M. Ipatov, A. Aronin, G. Abrosimova, J.J. del Val, A. Talaat and V. Zhukova, MAGNETIC HARDENING OF FE-PT AND FE-PT- M (M=B, Si) MICROWIRES, International Conference on Functional Materials ICFM 2017 Hammamet (Tunisia), September 05-09, 2017 (poster)
 386. A. Zhukov, M. Ipatov and V. Zhukova, Tuning of magnetic properties of Heusler-type glass-coated microwires, EUROMAT 2017, Thessaloniki, Sept. 17-22, 2017 (poster)
 387. V.Zhukova, M. Ipatov, A. Talaat, J. M. Blanco, M. Churyukanova and A. Zhukov, Tailoring of magnetic softness and GMI effect in Fe-rich thin magnetic wires, 62nd Annual Conference on Magnetism and Magnetic Materials, 2017 MMM Conference, Pittsburgh (USA), November 06 - 10, 2017 (oral)
 388. V.Zhukova, M. Ipatov, J.J. del Val and A. Zhukov, Magnetic properties of Heusler-type glass-coated microwires, 62nd Annual Conference on Magnetism and Magnetic Materials, 2017 MMM Conference, Pittsburgh (USA), November 06 - 10, 2017 (poster)
 389. K. Chichay, V. Rodionova, V. Zhukova, N. Perov, A. Zhukov, Domain wall dynamics in ferromagnetic microwires tuned by magnetoelastic interaction, The 4th International Symposium on Advanced Magnetic Materials and Applications (ISAMMA 2017), 10-13 December 2017–Phu Quoc, Vietnam(Poster)
 390. V.Zhukova, M. Ipatov, J.J. del Val, A. Zhukov, Tuning of magnetic properties of Heusler-type glass-coated microwires, The 4th International Symposium on Advanced Magnetic Materials and Applications (ISAMMA 2017), 10-13 December 2017–Phu Quoc, Vietnam(Poster)

391. V.Zhukova, M. Ipatov, J.J. del Val and A. Zhukov, "Tuning of magnetic properties of Heusler-type glass-coated microwires", TMS 2018 147th ANNUAL MEETING & EXHIBITION, March 11 - 15, 2018 Phoenix, Arizona USA (poster).
392. A. Zhukov, "Tuning of magnetic properties of Heusler-type glass-coated microwires", European Advanced Materials Congress - 2018 (EAMC - 2018, www.iaamevents.org/eamc18), Stockholm, Sweden, 20 - 23 August 2018 (poster)
393. V.Zhukova, M. Ipatov, J.J. del Val and A. Zhukov, Tuning of magnetic properties of Heusler-type glass-coated microwires , 8th International Advances in Applied Physics & Materials Science Congress and Exhibition (APMAS), April 24-30, 2018, Oludeniz (Turkey) (poster)
394. V.Zhukova, M. Ipatov, J.J. del Val and A. Zhukov Magnetic and structural properties of Heusler-type glass-coated microwires, 6th International Conference on Superconductivity and Magnetism- ICSM2018, Antalya, Turkey, 29.04-04.05. 2018 (oral)
395. A. Chizhik, J. Gonzalez, A. Zhukov, A. Stupakiewicz, Multi-parameter Search of Optimal Properties of Soft Magnetic Microwires, CIMTEC 2018 - 14th International Conference on Modern Materials and Technologies, 8th Forum on New Materials, Perugia, Italy (June 10-14), 2018 (oral)
396. L. Gonzalez-Legarreta, V. Zhukova, P. Corte-Leon, M. Ipatov, J. M. Blanco, A. Zhukov," Engineering of Magnetic Properties of Co- -rich Microwires by.Post-processing" 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (ID 252, poster), abstract book p.330
397. M. Churyukanova, S. Kaloshkin, E. Shuvaeva, A. Aronin, V. Zhukova, A. Zhukov, "The effect of heat treatment on magnetic and thermal properties of finemet-type ribbons and microwires" , 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (oral, ID 209), abstract book p. 260
398. P. Corte-Leon, V. Zhukova, M. Ipatov, J. M. Blanco, J. Gonzalez, A. Zhukov, "The effect of stress-annealing on magnetic properties of thick microwires" , 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (ID 251, poster), abstract book p.329
399. M. Ipatov, V. Zhukova, P. Corte-Leon, T. Ryba, R. Varga, J. Gonzalez and A. Zhukov, "Preparation and characterization of novel Heusler type magnetic microwires", 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (oral, ID-452) abstract book p.380
400. V Vega, V.M. Prida, L Dominguez, P Corte-Leon, M Ipatov, A Chizhik, V Zhukova, A Zhukov, B .Hernando, J Gonzalez, Giant magnetoimpedance effect in Co_{66.5}Fe_{3.5}Si_{12.0}B_{18.0} amorphous ribbons layered with Co film, 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy (oral, ID 377), abstract book p.397.
401. V.Zhukova, M. Ipatova,, J.J. del Val and A. Zhukov, "Tuning of magnetic properties of Heusler-type glass-coated microwires", International Conference on Magnetism (ICM2018), July 15-20, 2018 The Moscone Center, San Francisco, California, USA (oral, J5-02), abstract book p. 111.
402. V. Zhukova,P. Corte-Leon, J. M. Blanco, M. Ipatov and A. Zhukov, "Grading of magnetic anisotropy and engineering of domain wall dynamics in Fe-rich microwires by stress-

- annealing”, International Conference on Magnetism (ICM2018), July 15-20, 2018 The Moscone Center, San Francisco, California, USA (poster, H9-04) abstract book p.97.
403. P. Corte-Leon, V. Zhukova, M. Ipatov, J. Blanco, J. Gonzalez and A.P. Zhukov, “Optimization of GMI effect and magnetic properties of Co-rich microwires by Joule heating.”, International Conference on Magnetism (ICM2018), July 15-20, 2018 The Moscone Center, San Francisco, California, USA (poster, H9-03) abstract book p.96.
404. A. Zhukov, M. Ipatov, J. M. Blanco and V. Zhukova, “Engineering of GMI effect of Fe-rich microwires by stress annealing”, Progress In Electromagnetics Research Symposium, PIERS 2018, August 1-4, Toyama (Japan), (oral), abstract book p.63.
405. P. Corte-León, V. Zhukova, M. Ipatov, J. M. Blanco, J. Gonzalez and A. Zhukov, “Optimization of GMI effect and magnetic properties of Co-rich microwires by Joule heating”, Progress In Electromagnetics Research Symposium, PIERS 2018, August 1-4, Toyama (Japan) (oral), abstract book p.63.
406. V. Zhukova, M. Ipatov, J. M. Blanco, A. Zhukov, “Optimization of giant magnetoimpedance effect in Fe-rich microwires”, International Conference on Electromagnetics in Advanced Applications (ICEAA 2018), Cartagena, Colombia, September 10-14, 2018 (oral).
407. A. Zhukov, P. Corte-León, M. Ipatov, J. M. Blanco, J. Gonzalez and V. Zhukova, “Engineering of giant magnetoimpedance effect in Co-rich microwires by Joule heating.” International Conference on Electromagnetics in Advanced Applications (ICEAA 2018), Cartagena, Colombia, September 10-14, 2018 (oral)
408. P. Corte-León, L. Gonzalez-Legarreta, V. Zhukova, M. Ipatov, J. Gonzalez, J. M. Blanco, A. Zhukov, “Optimization of Giant Magnetoimpedance Effect in Co-rich Magnetic Microwires”, The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, September 16, 2018 to September 20, 2018 - Venice, Italy (oral).
409. P. Corte-León, L. Gonzalez-Legarreta, V. Zhukova, M. Ipatov, J. Gonzalez, J. M. Blanco, A. Zhukov, “Tuning the Giant Magnetoimpedance Effect in Fe-rich Magnetic Microwires by Stress- annealing”, The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, September 16, 2018 to September 20, 2018 - Venice, Italy (oral).
410. A. Chizhik, A. Zhukov, J. Gonzalez, P. Corte-Leon, A. Stupakiewicz, “Technological Chain for Tuning of Magnetic Properties of Glass Covered Microwire for Sensor Application”, The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, September 16, 2018 to September 20, 2018 - Venice, Italy (oral).

Citation indice of the papers published by Dr. A. Zhukov

(according to Web of Science database, updated December 02, 2011,
<http://isi3.isiknowledge.com/portal.cgi>, Scitation database of American Inst. Physics,
<http://scitation.aip.org>, ScienceDirect database, <http://www.sciencedirect.com/science>, Scirus
 database, <http://www.scirus.com/>, and Scopus database, <http://www.scopus.com>)

Major papers

Number of citations

1. M. Vázquez and A. Zhukov "Magnetic properties of glass-coated amorphous and nanocrystalline microwires" *J. Magn. Magn. Mater.* , 160 (1996) 223-228 **180**
2. M. Vázquez, M. Knobel, M.L. Sánchez, R. Valenzuela and A. Zhukov, "Giant magnetoimpedance effect in soft magnetic wires for sensor applications", *Sensors and Actuators A* 59 (1997) 20-29 **162**
3. A. P. Zhukov, M. Vázquez, J. Velázquez, H. Chiriac and V. Larin, The remagnetization process of thin and ultrathin Fe-rich amorphous wires, *J. Magn Magn. Mater* 1995, 151, 132-138. **116**
4. J. Velázquez, M. Vazquez and A. Zhukov, Magnetoelastic anisotropy distribution in glass-coated microwires, *J. Mater. Res.* V.11 No10 (1996) 2499-2505. **129**
5. M. Vazquez, H. Chiriac, A. Zhukov, L. Panina and T. Uchiyama, "On the state-of-the-art in magnetic microwires and expected trends for scientific and technological studies" *Phys. Status Solidi A*, A 208, No. 3, (2011) 493–501 **143**
6. A. Zhukov, J.González, J.M. Blanco, M.Vázquez and V. Larin, Microwires coated by glass: a new family of soft and hard magnetic materials", *J. Mat. Res* 15, (2000), 2107-2113. **95**
7. V. S. Larin, A. V. Torcunov, A. Zhukov, J. González, M. Vazquez, L. Panina "Preparation and properties of glass-coated microwires" *J. Magn. Magn. Mater.* 249/1-2 (2002) 39-45. **135**
8. V. Zhukova, A. Chizhik, A. Zhukov, A. Torcunov, V. Larin and J. Gonzalez, Optimization of giant magneto-impedance in Co-rich amorphous microwires, *IEEE Trans. Magn.* 38, 5, partI, (2002) 3090-3092 **112**
9. V. Zhukova, M. Ipatov and A Zhukov, "Thin Magnetically Soft Wires for Magnetic Microsensors" (*Review*) *Sensors* 9(2009) pp. 9216-9240 **112**
10. H. Chiriac, T.-A- Ovari and A. Zhukov, "Magnetoelastic anisotropy of amorphous microwires", *J. Magn. Magn. Mater.* 254-255 (2003) 469-471 **102**
11. A. Zhukov, V. Zhukova, J.M. Blanco, et al., "Magnetostriction in glass-coated magnetic microwires", *J. Magn. Magn. Mater.* 258 (2003) 151-157 **90**
12. A. Zhukov "Design of magnetic properties of Fe-rich glass – coated magnetic microwires for technical applications", *Adv. Func. Mat.*, 16, Issue 5, pp.675-680 (2006) **86**
13. R. Varga, A. Zhukov, V. Zhukova, J. M. Blanco and J. Gonzalez, "Supersonic domain wall in magnetic microwires", *Phys. Rev. B* **76**, (2007,)132406 **73**
14. A. Zhukov, Glass – coated magnetic microwires for technical applications, *J. Magn and Magn. Mater* 242-245 (2002) 216-223. **68**
15. J. Arcas, C. Gómez-Polo, A. Zhukov, M. Vázquez, V. Larin, A. Hernando, "Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires", *Nanostructured Materials*, 7 (8), (1996) pp. 823-834. **63**
16. G. Herzer, M. Vazquez, M. Knobel, A. Zhukov, T. Reininger, H.A. Davies and R. Grössinger, "Round table discussion: present and future application of nanocrystalline materials", *J. Magn. and Magn., Mater.*, 294 (2005) 252-266 **64**
17. K.R. Pirota, M. Hernandez-Velez, D. Navas, A. Zhukov and M. Vázquez, "Multilayer microwires: Tailoring magnetic behaviour by sputtering and electroplating", *Adv. Funct. Mater.* 14 No 3 (2004) pp.266-268. **57**
18. A. Zhukov, Domain Wall propagation in a Fe-rich glass-coated amorphous microwire, *Applied Physics Letters*, 78 (2001) 3106-3108 **58**
19. D. Mahnovskiy, L. Panina. C. García, A. Zhukov and J. González, "Experimental demonstration of tuneable scattering spectra at microwave frequencies in composite media containing CoFeCrSiB glass-coated amorphous ferromagnetic microwires and comparison with theory" *Phys. Rev. B* 74 (2006), 06420 **68**
20. M. Vázquez, A. Zhukov, P. Aragonese, J. Arcas, P. Marin and A. Hernando, Magneto-impedance of glass-coated amorphous CoMnSiB microwires, *IEEE Trans Magn.* 34 No 3 (1998) 724-728 **53**
21. M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, and A. Zvezdin, "Low-field hysteresis in the magnetoimpedance of amorphous microwires", *PHYSICAL REVIEW B* 81, (2010), 134421 **74**
22. A.F. Cobeño, A. Zhukov, A.R. de Arellano - Lopez, F. Elías. J.M. Blanco, V. Larin and J. González, "Physical properties of nearly zero magnetostriction Co-rich glass-coated amorphous microwires" *J. Mater. Res.* 14 (1999) 3775-3783 **53**
23. J.M. Blanco, A. Zhukov and J. Gonzalez, Asymmetric torsion stress giant magnetoimpedance in nearly-zero magnetostrictive amorphous wires, *J. Appl. Phys.* 87 No 9, (2000) 4813-4815 **49**
24. R. Varga, A. Zhukov, J.M.Blanco, et al., "Fast magnetic domain wall in magnetic microwires" *Phys. Rev. B* 74 (2006), 212405 **50**

25. A.P. Zhukov, The remagnetization process of bistable amorphous alloys, *Materials and Design*, 1993, No 5, 299-305. **44**
26. R. Varga, K.L. García, A. Zhukov and M. Vázquez and P. Vojtanek, "Temperature dependence of the switching field and its distribution in Fe-rich bistable microwires " *Appl. Phys. Lett.* 83 13 (2003), 2620-2622 **46**
27. A. Zhukov, M. Vázquez, J. Velázquez, A. Hernando and V. Larin, Magnetic properties of Fe-based glass-coated microwires, *J. Magn. Magn. Mat.* 170 (1997) 323-330. **54**
28. V. Zhukova, V.S. Larin and A. Zhukov, "Stress induced magnetic anisotropy and giant magnetoimpedance in Fe-rich glass/coated magnetic microwires " *J.Appl. Phys.* 94 2 (2003), 1115-1118 **52**
29. M. Vázquez, J.M. García-Beneytez, J.M. García, J.P. Sinnecker and A. Zhukov, Giant magneto-impedance in heterogeneous microwires, *J. Appl. Phys.* 88 (2000) 6501-6505. **51**
30. A. Zhukov, J. Gonzalez, J.M. Blanco, M.J. Prieto, E. Pina and M. Vazquez, Induced Magnetic Anisotropy in Co-Mn-Si-B Amorphous Microwires, *J. Appl. Phys.* 87 (2000) 1402-1408 **52**
31. R. Varga , K.L. García, M. Vázquez, A. Zhukov, P. Vojtanik, "Switching field distribution in amorphous magnetic bistable microwires", *Phys. Rev. B* **70** (2004), 024402-1 **45**
32. V. Zhukova, N.A. Usov, A. Zhukov and J. Gonzalez' Length effect in Co-rich amorphous wire, *Phys. Rev B*, 65 (2002) 134407-1-7. **53**
33. A. Zhukov, M. Vázquez, J. Velázquez, C. Garcia, R. Valenzuela and B. Ponomarev, Frequency dependence of coercivity in rapidly quenched amorphous materials, *J. Mat. Sci. Eng.* A226-228 (1997) 753-756 **47**
34. M. Ipatov, V. Zhukova, A. K. Zvezdin and A. Zhukov, "Mechanisms of the ultrafast magnetization switching in bistable amorphous microwires", *J. Appl. Phys.* ,106, 103902, 2009 **53**
35. J. M. Blanco, A. Zhukov and J. Gonzalez, Effect of tensile and torsion on GMI effect in amorphous wire, *J. Magn. Magn. Mat.* 196-197 (1999) 377-379 **51**
36. V. Zhukova, A. Zhukov, V. Kraposhin, A. Prokoshin and J. Gonzalez, "Magnetic properties and GMI of soft magnetic amorphous fibers" , *Sensors and Actuators (A)* 106 (2003) 225-229 **46**
37. V. Zhukova, A.F. Cobeño, A. Zhukov, J.M. Blanco, S. Puerta, J.González and M. Vázquez "Tailoring of magnetic properties of glass coated microwires by current annealing" *J. Non-crystalline solids* 287, pp.31-36 **44**
38. H.X. Peng , F.X. Qin, M.H. Phan, Jie Tang, L.V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, J. Gonzalez, "Co-based magnetic microwire and field-tunable multifunctional macro-composites", *Journal of Non-Crystalline Solids* 355 (2009) 1380–1386 **54**
39. Yu. Kabanov, A. Zhukov, V. Zhukova and J. Gonzalez, "Magnetic domain structure of microwires studied by using the magneto-optical indicator film method ", *Appl. Phys. Lett.* 87 (2005) p142507 **51**
40. A. Zhukov, M. Ipatov, M. Churyukanova, S. Kaloshkin, V. Zhukova, "Giant magnetoimpedance in thin amorphous wires: From manipulation of magnetic field dependence to industrial applications", *J. Alloys Comp.* 586 Supl. 1 (2014) pp. S279-S286 **46**
41. A. Zhukov, J. M. Blanco, M. Ipatov, A. Chizhik and V. Zhukova, "Manipulation of domain wall dynamics in amorphous microwires through the magnetoelastic anisotropy", *Nanoscale Research Letters*, 7 (2012) 223, **58**
42. P A Ekstrom and A Zhukov, "Spatial structure of the head-to-head propagating domain wall in glass-covered FeSiB microwire", *J. Phys. D: Appl. Phys.* 43 (2010) 205001 **48**
43. R.Varga, T. Ryba, Z. Vargova, K. Saksl, V. Zhukova, A. Zhukov, "Magnetic and structural properties of Ni-Mn-Ga Heusler-type microwires", *Scripta Materialia*, volume 65, issue 8, (2011) pp. 703 – 706 **48**
44. J.M. Blanco, A. Zhukov and J.Gonzalez, "Torsional Stress Impedance and Magneto-impedance in $(\text{Co}_{0.95}\text{Fe}_{0.05})_{72.5}\text{Si}_{12.5}\text{B}_{15}$ Amorphous Wire with Helical Induced Anisotropy", *J. Phys. D:Appl. Phys.* **37** (1999) 3140-3145. **43**
45. N.A. Usov, A. Zhukov, J. Gonzalez, Domain walls and magnetization reversal process in soft magnetic nanowires and nanotubes, ", *J. Magn. Magn. Mater.* 316 (2007) pp. 255–261. **43**
46. V. Zhukova, J. M. Blanco, M. Ipatov and A. Zhukov, "Effect of transverse magnetic field on domain wall propagation in magnetically bistable glass-coated amorphous microwires", *J. Appl. Phys.*, 106, 113914, 2009 **40**
47. A. Chizhik, A. Zhukov, J.M. Blanco, R. Szymczak and J. Gonzalez, Interaction between Fe-rich ferromagnetic glass coated microwires, *J. Magn. Magn. Mat* 249/1-2 (2002) 99-103. **25**
48. A. F. Cobeño, A. Zhukov, J. M. Blanco and J. Gonzalez, Giant magneto-impedance effect in CoMnSiB amorphous microwires, *J. Magn. Magn. Mat* 234 (2001) L359-L365 **25**

49. A. F. Cobeño, A. Zhukov, J. M. Blanco, V. Larin and J. Gonzalez, Magnetoelastic sensor based on GMI of amorphous microwire, *Sensors and Actuators (A)* 91 (2001) 95-98 **35**
50. A. Zhukov, M. Ipatov, J. Gonzalez, J. M. Blanco, V. Zhukova, Recent advances in studies of magnetically soft amorphous microwires, *J. Magn. Magn. Mater.* 321 (2009) 822–825 **35**
51. P. Aragonese, A. Zhukov, J. Gonzalez, J. M. Blanco and L. Dominguez “Effect of AC driving current on Magneto-Impedance effect” *Sensors and Actuators A*, 81/1-3 (2000) 86-90. **40**
52. A. Zhukov, J. Gonzalez and V. Zhukova, “Magnetoresistance in thin wires with granular structure”, *J. Magn. and Magn., Mater.* 294 (2005) 165-173 **34**
53. M. Ipatov, V. Zhukova, J. Gonzalez and A. Zhukov, "Magnetoimpedance sensitive to DC bias current in amorphous microwires" *Appl. Phys. Lett* 97 (2010) 252507. **37**
54. C. Garcia, A. Zhukov; V. Zhukova V; et al. “**Effect of tensile stresses on GMI of co-rich amorphous microwires**”, *IEEE TRANSACTIONS ON MAGNETICS* Volume: 41 Issue: 10 Pages: 3688-3690 DOI: 10.1109/TMAG.2005.854809 Published: OCT 2005 **21**
55. M. Ipatov, N. A. Usov, A. Zhukov, J. Gonzalez, “Local nucleation fields of Fe-rich microwires and their dependence on applied stresses”, *Physica B* 403 (2008) 379–381 **22**
56. V. Panina, M. Ipatov, V. Zhukova, A. Zhukov, and J. Gonzalez, “Magnetic field effects in artificial dielectrics with arrays of magnetic wires at microwaves”, *J. APPL. PHYS.* 109, 053901 (2011) **20**
57. A. Chizhik, J. Gonzalez, A. Zhukov and J. M. Blanco, Magnetization reversal of Co-rich wires in circular magnetic field, *J. Appl. Phys.* 91, No 1 (2002) 537-539. **20**
58. V. Zhukova, S. Kaloshkin, A. Zhukov and J. Gonzalez, DSC studies of Finemet-type glass-coated microwires, *J. Magn. Magn. Mat.* 249 /1-2 (2002) 108-112 **19**
59. A. F. Cobeño, A. Zhukov, E. Pina, J. M. Blanco, J. Gonzalez and J. M. Barandiaran “Sensitive magnetoelastic properties of amorphous ribbon for magnetoelastic sensors” *J. Magnetism and Magnetic Materials*, 215-216 pp 743-745 **14**
60. A. Zhukov, V. Zhukova, J. M. Blanco and J. Gonzalez “Recent research on magnetic properties of glass-coated microwires”, *J. Magn. and Magn., Mater.* 294 (2005) 182-192 **17**
61. C. Garcia, J. Gonzalez, A. Chizhik, A. Zhukov, J. M. Blanco, “Asymmetrical magneto-impedance effect in Fe-rich amorphous wires” *Journal of Applied Physics*; Vol 95, N° 11 (2004), pp. 6756-6758 **13**
62. V. Zhukova, A. Zhukov, J. M. Blanco, J. González, C. Gómez–Polo and M. Vázquez, “Effect of applied stress on magnetization profile of Fe-Si-B amorphous wire” *J. Appl. Phys.* 93 (2003) 7208-7210. **18**
63. A. Chizhik, J. Gonzalez, A. Zhukov and J. M. Blanco “Circular magnetic bistability in Co-rich amorphous microwires” *J. Phys. D: Appl. Phys.* 36 (2003) 419-422 **16**
64. R. Varga, K. Richter, A. Zhukov, and V. Larin, “Domain Wall Propagation in Thin Magnetic Wires”, *IEEE Trans. Magn.* 44, 11, Part 2, 3925-3930 (2008) **21**
65. S. A. Gudoshnikov, Yu. B. Grebenshchikov, B. Ya. Ljubimov, P. S. Palvanov, N. A. Usov, M. Ipatov, A. Zhukov, and J. Gonzalez, “Ground state magnetization distribution and characteristic width of head to head domain wall in Fe-rich amorphous microwire”, *Phys. Status Solidi A* 206, No. 4, 613–617 (2009) **23**
66. P. Aragonese, J. M. Blanco, L. Dominguez, J. González, A. Zhukov and M. Vázquez, The Stress dependence of the switching field in glass-coated amorphous microwires, *J. Phys. D: Applied Phys.* 31 (1998) 3040-3045 **18**
67. V. Zhukova, A. F. Cobeño, A. Zhukov, J. M. Blanco, V. Larin and J. Gonzalez, Coercivity of glass-coated $\text{Fe}_{73.4-x}\text{Cu}_1\text{Nb}_{3.1}\text{Si}_{13.4+x}\text{B}_{9.1}$ ($0 \leq x \leq 1.6$) microwires, *Nanostructured Materials* 11, No. 8, (1999) 1319-1327 **20**

Total number of citations of major papers:

1193

Number of citations of other papers from publication list: 2207

Total number of citations of A. Zhukov’s papers

(updated January 28, 2019): **7053**

Citation H-index = 44

Teaching experience:

1. Doctoral courses „Magnetic Materials: Relevant Properties and Applications“ (Doctoral Programme “Ciencia y Tecnología de Materiales” of the UPV/EHU 2006-2008)
2. Responsible for the Master course „Nanodevices“ (2007-up to now)

Evaluations and accreditations:

Satisfactory Evaluation of the programme I3 of outstanding scientific trayectory(ANEP)

National accreditation for the Profesor Titular (ANECA), 2009

National accreditation for the Profesor Contratado Doctor (ANECA) 2008

National accreditation for the Profesor Ayudante Doctor (ANECA) 2008

National accreditation for the Profesor de Universidad Privada (ANECA) 2008

Accreditation by the UNIQUAL for the Profesor Agregado (UNIQUAL) 2009

Accreditation by the UNIQUAL for the “Personal Doctor Investigador en el campo de Ciencias Experimentales” 2010

Positive Evaluation of the “complementos retributivos” by the "Uniqua", tramos C1, C2, B1, B2

Managerial activities

- a. **CO-CHAIRMAN of Joint European Magnetic symposium (San Sebastián, June 2006, 750 participants)**
- b. CO-CHAIRMAN of the symposium “*Recent Research on Novel Magnetic Structures and Their Applications* “ (San Sebastián, September 2000)
- c. CO-CHAIRMAN of Donostia International Conference on Nanoscaled Magnetism and Applications, DICNMA, (San Sebastián, September 2013, 300 participants)
- d. Chair of the Donostia Symposim on Energy, Materials, and Nanotechnology (DINEMN), San Sebastian, September, 2015
- e. Chair of the INTERNATIONAL WORKSHOP ON MAGNETIC WIRES 2015 “ (Ordizia, July 2015)
- f. Organizer and Chair of the 24th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM), San Sebastian, June 18-23, 2017
- g. Organization and “Soft and Hard Magnetic Materials” session Charing at Moscow Internacional Symposium on Magnetism “MISM 2011”, August 2011, MISM 2005, MISM 2008, MISM 2014, MISM 2017 in Moscow.
- h. Organization of the session “**Functional magnetic materials and applications**” for the International Conference on Superconductivity and Magnetism” -ICSM 2012 (Istanbul)

- i. Organizer and Charimen of the session “Novel Functional Magnetic Materials: Basic Approach and Applications” of 4th International Conference on Superconductivity and Magnetism-ICSM2014, April 27-th-May3-d, Antalya, Turkey
- j. **Organizer and session Charimen of “Magnetic Microwave Smart Materials”(Session5A6) of international Conference Progress In Electromagnetics Research Symposium (PIERS) 2009 in Moscow, August 2009**
- k. Member of the **Program committee** of the 8th Energy, Materials, and Nanotechnology (EMN) Meeting, Orlando, Florida November 22 - 25, 2014.
- l. Member of the **Program committee** of the 2015 Asia INTERMAG, May 4, 2015 - May 8, 2015, Beijing, China
- m. - **Eighth Internacional Workshop on Non-Crystalline Solids”, Gijon June 20-23, 2006**
- n. - INTERNATIONAL WORKSHOP ON MAGNETIC WIRES 2008 “ (Zumaia, Mayo 2008) (**Programme committee**), 2010 (Bordum Turkey)
- o. - **“International conference on Functional Materials 2007” (Crimea, October 2007) (Program committee)**
- p. **“International conference on Functional Materials 2009” (Crimea, October 2009) (Program committee)**
- q. - **“International conference on Functional Materials 2011” (Crimea, October 2011) (Program committee)**
- r. - **Moscow International Symposium on Magnetism “MISM 2011”, in Moscow, August 2011 (Program committee), MISM 2014 in Moscow, July 2014 (Program committee), Moscow Internacional Symposium on Magnetism “MISM 2017”, in Moscow, July 2017 (Program committee).**
- s. - Memeber of the Advisory Committee of the “Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012
- t. - Memeber of the Advisory Committee of the “Progress In Electromagnetics Research Symposium, PIERS 2012 Kuala-Lumpur, March 20-23, 2012
- u. - Memeber of the International Advisory Committee of the “Progress In Electromagnetics Research Symposium, PIERS 2013”, PIERS 2013 Taipei, March 25–28, 2013
- v. - Memeber of the PIERS 2013 Stockholm Subcommittee 4 (Antennas and Microwave Technologies) of the “Progress In Electromagnetics Research Symposium, PIERS 2013”, PIERS 2013, August 12–15, 2013 Stockholm, SWEDEN
- w. - Member of the Advisory Committee of the 3-d International Conference on Superconductivity and Magnetism-ICSM2012, Istambul April 28-May3-d, 2012
- x. - Member of the Advisory Committee of the 4th International Conference on Superconductivity and Magnetism-ICSM2014, April 28-May3-d, 2014
- y. Member of the Advisory Committee of the 5th International Conference on Superconductivity and Magnetism-ICSM2016, April 24-30-th, 2016, Fethiye, Turkey
- z. Member of the Technical Program Committee of the Advanced Electrmagnetic Symposium, AES 2016, July 26-28, Malaga Spain
- aa. Member of the Technical Program Committee **The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, September 16, 2018 to September 20, 2018 - Venice, Italy**
- bb. Member of the **Program committee** of the 2019 Joint MMM-Intermag Conference , Washington, DC, January 14 – 18, 2019, USA
- cc. Member of the **Program committee** of the 2019 MMM Conference , Las Vegas, November 4-8, 2019, USA.

Another Relevant merits.

1. Scientific referee of the scientific papers for:
 - Journal of Magnetism and Magnetic Materials (>50)

- Sensors and Actuators (A) (3)
- J. Appl Phys. and Appl. Phys. Lett (regular referee, >20)
- Mat. Sci. Eng.
- International Conference on Magnetism 2003, 2005,
- Joint European Magnetic Symposium. JEMS-01, Grenoble, France August 28-31, 2001(4)
- Non-cryst solids
- J. Alloys Compound.
- Intermetallics
- Phys. Status Sol (a)
- Scientific reports
- IEEE Trans. Magn.
- IEEE Magn. Lett.
- Sensor Lett.
- Mater. Design
- J. Supercond. Novel. Magn
- Physica B
- Acta Phys. Polonica A
- Applied Physics A: Materials Science and Processing
- 5th International Workshop on Non-Crystalline Solids (2)
- InterMag 2000 (>10)
- 2nd, 3-d European Conference in Magnetic Sensors & Actuators (EMSA`98, EMSA -2003) (6)
- SMM15 (5)
-

2. Evaluator of ANECA (Spanish agency of quality of Ministry of Education), National Science Centre (Narodowe Centrum Nauki – NCN (Poland), Czech Science Foundation, Agence nationale de la recherche de Francia, Concurso FONDECYT Regular 2017, de la Comisión Nacional de Investigación Científica y Tecnológica de Chile (CONICYT – Chile)

3. Participation in the projects with industry:

Project title “New Magnetic, Magnetoelastic and Magnetoresistent Sensors” (Department of Industry, Agriculture and Fishing of the Basque Government.

4. INVITED SEMINARS:

- University of Nebraska, Center for Materials Research and Analysis (Lincoln, USA) (2001)
- Instituto de Investigaciones en Materiales de la UNAM de Mexico (1999)
- Department of Engineering Physics and Materials Engineering
Ecole Polytechnique Montreal (Canada, 2000)
- Center of Advanced European Studies, CAESAR (Germany, Bonn, October 2001)
- MIT(Cambridge, USA)(2001, 2009)
- Moscow State University (Russia, September 2004, April 2009)
- Moscow Technological University (Russia, April 2009)
- Kosice University (Slovakia) (Slovak Republic, May 2009)
- Bristol University (UK, September 2009)
- **COST P17 – WG V3 WORKSHOP**, organized by the **Working Group WG V3 – Solids and Plasmas** of the **COST Action P17** in Prague, Czech Republic, on May 28-29, 2009.
- Argonne National Laboratory (Argonne, October 2011)
- Bogazici University (Istanbul, Turkey, April 2012)
- University of South Florida (Tampa, USA, May 2012)
- Chuo University (Tokyo, October, 2012)
- Toyohashi University of Technology (Japan October 2012)

- Argonne National Laboratory (Argonne, 15-th January 2013)
- Institute of Physics ASCR (Czech Republic, Prague, June 14 2013)
- George Washington University (USA, Washington DC), February 25-th, 2014
- Oak Ridge Natl. Lab (USA, Oak Ridge), February, 2016
- Nagoya University (Japan), June 30, 2016

5. Committees of various conferences:

- PROGRAMME CO-CHAIRMAN of the "INTERNATIONAL WORKSHOP ON MAGNETIC WIRES" (San Sebastián, June 2001)

MIEMBRO of the ORGANIZING COMMITTEES

- "Magnetism of Nanostructured Phases, MNP Conference" San Sebastián (Septiembre, 1998), responsible for the Publication.

-

6) Chairing the sessions at international conferences:

- **Chairman of the Session** "Amorphous and Nanocrystalline Materials" of the 52nd Magnetism and Magnetic Materials Conference
- **Chairman of the Session** "SOFT MAGNETIC MATERIALS AND EMC" of the International Magnetic Conference (INTERMAG 2008, Madrid 4-8 May, Intermag 2008)
- **Chairman of the Session** "CRYSTALLINE, NANOCRYSTALLINE, AND AMORPHOUS MATERIALS (II)" of the International Magnetic Conference (INTERMAG 2009, Sacramento EE.UU.)
- **Chairman of the Session** "MAGNETIC MATERIALS" of the **The 17-th Annual International Conference on COMPOSITES/NANO ENGINEERING (ICCE – 17, Hawaii, July 2009, USA)**
- Co-Chairman of the Session "AS Amorphous and nanocrystalline soft magnets I" of the **11TH JOINT MMM-INTERMAG CONFERENCE** (Washington, EE.UU., January 2010)
- Chairman of the Session "HH Soft magnetic materials and applications III" of the International Magnetism Conference, Intermag 2011 (Taipei, Taiwan April 2011)
- Co-chairman of the Session 4P4a "Electromagnetic Property and Measurement" **international Conference Progress In Electromagnetics Research Symposium (PIERS) 2011, Marrakesh, Wednesday PM, March 23, 2011**
- Chairman of the Session "*International conference on Functional Materials 2009*" (Crimea, **October 2009**)
- Chairman of the Session "*International conference on Functional Materials 2011*" (Crimea, **October 2011**)
- Chairman of the Session "First Euro Mediterranean Meeting on Functionalized Materials" (Sousse, Tunisia, Sept. 2011)
- **Organizer and session Chairmen of "Soft and Hard Magnetic Materials" of Moscow International Symposium on Magnetism "MISM 2011", in Moscow, August 2011, of Moscow International Symposium on Magnetism "MISM 2014", in Moscow, July 2014, of Moscow International Symposium on Magnetism "MISM 2017", in Moscow, July 2017**
- Chairman of the Session "Magneto-dielectric materials or meta-materials" (CJ) at 19-th **International conference on Magnetism 2012, Pusan Korea, July 2012**
- Chairman and Organizer of the Session "Smart Functional Materials for Non-destructive Control and Stress Monitoring" at Progress In Electromagnetics Research Symposium, PIERS 2012 Moscow, August 19-23, 2012
- Chairman and Organizer of the Session "Functional magnetic materials and applications" for the International Conference on Superconductivity and Magnetism -ICSM 2012 (Istanbul)
- Chairman of the Session "**Nanomaterials**" at **2nd International Congress on Advanced Materials (AM2013)**, 16-19 May 2013 Jiangsu University, Zhenjiang, China
- **Organizer and session Chairman of the "Second Euro Mediterranean Meeting on Functionalized Materials" (Hammamet, Tunisia, March. 2013)**
- **Organizer and session Chairmen of Special session "SC4: Giant Magneto-impedance and EM Safety" at Progress In Electromagnetics Research Symposium, PIERS 2013 Stockholm, August 12-15, 2013**

- **Organizer and session Charimen of “Soft and Hard Magnetic Materials” of Moscow Internacional Symposium on Magnetism “MISM 2014”,** in Moscow, June 2014
 - Chairman of the Session “Magnetocalorics and Magnetoelastics II.” of the 58TH MMM–CONFERENCE (Denver, USA, 2013)
 - Organizer and Charimen of the session “Novel Functional Magnetic Materials: Basic Approach and Applications” of 4th International Conference on Superconductivity and Magnetism-ICSM2014, April 27-th-May3-d, Antalya, Turkey
 - Chairman of the Session (FG) “Soft magnetic crystalline alloys and thin films II” of the IEEE International Magnetism Conference, INTERMAG Europe 2014, Dresden, May 2014
 - Co-chair of the session3a “PHYSICS 1” of the Twenty-second Annual International Conference on COMPOSITES/NANO ENGINEERING (ICCE-22), Malta, July 13-19, 2014
 - Chairman of the Session (FP) “FP. Magnetoelastic materials I,” of the IEEE International Magnetism Conference, INTERMAG Europe 2016, Dublin, April 2017
 - Chairman of the Session “MAGNETIC, TRANSPORT AND OPTICAL PROPERTIES FROM NANOSCALE TO BULK II” at 25th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM2018), July 2-6, 2018, Rome, Italy
 - Chairman of the Session “SOFT MAGNETIC MATERIALS AND MAGNETIC SHIELDING V” at International Conference on Magnetism (ICM2018), July 15-20, 2018 The Moscone Center, San Francisco, California, USA.
 - Organizer and Charimen of the Session (SC, 1P18) “Soft Magnetic Wires and Giant Magnetoimpedance Effect for High Sensitive Magnetic Sensors and Non-destructive Control” at Progress In Electromagnetics Research Symposium, PIERS 2018, August 1-4, Toyama (Japan)
 - Organizer and Charimen of the Session, “Novel Functional Magnetic Materials - Basic Approach and Applications”, at 6th International Conference on Superconductivity and Magnetism- ICSM2018, Antalya, Turkey, 29.04-04.05. 2018.
 - Organizer and Charimen of the Special track “Advances in Giant Magneto-Impedance Materials and Devices (AGAD)”, The Ninth International Conference on Sensor Device Technologies and Applications, SENSORDEVICES 2018, September 16, 2018 to September 20, 2018 - Venice, Italy.
7. MEMBER of the SCIENTIFIC TRIBUNAL OF THE PHD THESIS of Mr. Victor Manuel de la Prida Pidal (Universidad de Oviedo) (Oviedo, May 2000) and Mrs. Leonor Pascual Castaño (Universidad Complutense, Madrid) (Abril 2003), Carmen Miguel (2003, UPV/EHU), Jesus Oliveira (Oviedo 2008), Alejandro Jiménez (Madrid 2016)
- 8 Responsible of the post-doctoral stays, of the Visiting Researcher:
- *Victor Mnauel de La Prida Pidal (Visiting Professor of the Universidad de Oviedo, 3 meses)*
 - *Prof. Anatoly Zvezdin (Profesor Visitante de la Universidad de Moscú, 12 meses), 2008*
Ikerbasque Fellowship
 - Prof. Larissa Panina (Profesor Visitante de la Universidad de Plymouth, UK , 12 meses), 2009
Ikerbasque Fellowship
 - Prof. A. Granovsky (*Profesor Visitante de la Universidad Estatal de Moscú, 12 meses), 2011*
Ikerbasque Fellowship
9. Miembro del Consejo Ejecutivo de Dirección de Internacionalización del Sistema de Innovación, dentro de los Órganos de Gobierno de Innobasque.
10. Founder of spin-off Company “TAMAG Iberica S.L.” , being main scientific consultant along years all years of existence.

Considering the H-index and number of citations A. Zhukov among the # 17 best in the ranking of the best researchers in the Basque Country (<http://www.webometrics.info/en/node/137>). This ranking of scientists was prepared according to the presence in Google Scholar Citations database based on the data collected during the second week of January 2016.

Dr. A. Zhukov is included in the "Rankings of the 254 most important researchers in PHYSICS and of the 142 most important researchers in SCIENCES OF MATERIALS resident in Spain ordered by their index H (<http://indice-h.webcindario.com/>) with more than 380 articles (of which 74 are invited).