

Part A. PERSONAL INFORMATION

CV date 24.09.18.

First and Family name	Oleksandr Chyzhyk Chyzhyk		
Social Security, Passport, ID number	73041997T	Age	58
Researcher numbers	Researcher ID	56251750000	
	Orcid code	0000-0002-9874-1469 0000-0003-3277-7175	

A.1. Current position

Name of University/Institution	University of the Basque Country		
Department	Dep. Physics of Materials		
Address and Country	Apdo. 1072, 20080, San Sebastián, Spain		
Phone number	+34664562270	E-mail	oleksandr.chyzhyk@ehu.es
Current position	PERMANENT INVESTIGATOR	From	10.05.2011.
Espec. cód. UNESCO	221117		
Palabras clave	Amorphous magnetic wire, Magneto-optical Kerr effect, Magnetization reversal		

A.2. Education

PhD	University	Year
Doctor of Physics and Mathematics (approved in Spain in 2005)	Institute of Physics and Engineering at Low Temperatures, National Academy of Sciences of Ukraine. Kharkov, Ukraine	1991

A.3. JCR articles, h Index, thesis supervised...

Part B. CV SUMMARY (max. 3500 characters, including spaces)

All my working life I have developed, at the Institute of Physics and Engineering at Low Temperatures, National Academy of Sciences of Ukraine, Kharkov, Ukraine (20 years) and at the University of the Basque Country / Euskal Herriko Unibertsitatea (18 years) doing research applied character in magnetic materials and teaching in the last 2 years postgraduate teaching (master). I am the member of the Group of magnetism of the UPV / EHU directed by the University Professor Julián María González Estévez.

Last 20 years my research was carried out in the magnetic microwires with glass coating, paying special attention to the surface structure more important for application of sensors. I focus mainly on the magneto-optics technique that allows analyzing the magnetic surface structure.

I am author or co-author of 1 book, chapters of books (6), articles in scientific journals (more than 120), participation in more than 100 scientific conferences, director of 1 doctoral thesis, evaluator for national and foreign agencies, evaluator of articles for high impact index journals, member of the international congress organizing committee (9), number of research sexenios - 3, last awarded date - 2015, number of doctoral theses addressed 1, index H 15, total publications in first quartile Q1 - 62, total appointments - 540, average number of appointments / year during the last 5 years - 112.

Part C. RELEVANT MERITS

C.1. Publications (including books)

Chapter A. Chizhik, A. Stupakiewicz, J. Gonzalez, "Tunable magnetic anisotropy and magnetization reversal in microwires". BOOK: High Performance Soft Magnetic Materials, Springer, 2017. ISBN 978-3-319-49707-5

Manipulation of domain wall dynamics in amorphous microwires through the magnetoelastic anisotropy Zhukov, A; Blanco, JM; Ipatov, M, Chizhik A, Zhukova, V NANOSCALE RESEARCH LETTERS, 7, Número de artículo: 223, 2012, DOI: 10.1186/1556-276X-7-223 times cited 48

Alexander Chizhik, Arcady Zhukov, Julian Gonzalez, and Andrzej Stupakiewicz, Control of the domain wall motion in cylindrical magnetic wires, Applied Physics Letters 109, 052405 (2016); doi: 10.1063/1.4960605 times cited 10

Alexander Chizhik and Julian Gonzalez “Magnetic Microwires. A Magneto-Optical Study” 2014 Pan Stanford Publishing ISBN 978-981-4411-25-7, ISBN 978-981-4411-26-4

Magnetization switching in ferromagnetic microwires, Chizhik, A; Zablotskii, V; Stupakiewicz, A; Gomez-Polo, C; Maziewski, A; Zhukov, A; Gonzalez, J; Blanco, JM, PHYSICAL REVIEW B, 82, Número de artículo: 212401, DOI: 10.1103/PhysRevB.82.212401 , 2010, times cited 23

Direct imaging of the magnetization reversal in microwires using all-MOKE microscopy Stupakiewicz, A; Chizhik, A; Tekielak, M; Zhukov, A; Gonzalez, J; Maziewski, A, REVIEW OF SCIENTIFIC INSTRUMENTS, 85, Número de artículo: 103702 DOI: 10.1063/1.4896758, 2014, times cited 20

Direct observation of giant barkhausen jumps in magnetic microwires. A. Chizhik, A. Stupakiewicz, A. Maziewski, J. González, J.M. Blanco, Applied Physics Letters 97, 012502 (2010) DOI: 10.1063/1.3460292 times cited 15

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 times cited 20

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 times cited 20

C.2. Research projects and grants

Year of the call: 2007 Title of the project: NANOMAGNETISMO. MATERIALES MAGNETICOS BLANDOS Responsible researcher: 15894958, GONZALEZ ESTEVEZ, JULIAN MARIA, Total Number of Researchers: 6 Funding Entity: BASQUE GOVERNMENT (REGIONAL) Start date: 01/01/2007, End date: 12/31/2012, Amount of the Subv: 375.547,33
Investigador

Title of the project: Desarrollo de microhilos magnéticos blandos con efecto GMI para Micro sensores. Gobierno Vasco (Gaitek) Responsible researcher: V. ZHUKOVA, Development of SOft MAGnetic MICrowires with GMI effect for Micro-SENSors, MANUNET-2010 (ERA-NET), DURATION: 2011-2013, PARTICIP ENTITIES.: UPV/EHU
Investigador

Title of the project: DESARROLLO DE MATERIALES INTELIGENTES CON ALTO EFECTO DE MAGNETOIMPEDANCIA Y DE METAMATERIALES BASADOS EN MICROHILOS MAGNETICOS PARA APLICACIONES MULTIFUNCIONALES, MEC (National Materials Plan)

investigador

FINANCING ENTITY: MEC (*National Materials Plan*) MAT2010-18914 (subprograma MAT)

PARTICIP ENTITIES: UPV/EHU, *Responsible researcher:* A. ZHUKOV

NÚMERO DE INVESTIGADORES PARTICIPANTES: 17, **DURATION:** 4 Años

(01/01/2011- 31/12/2014) *Amount of the Subv:* 100.000 Euros

Title of the project: Aplicaciones de los microhilos magnéticos en los teléfonos móviles.

Responsible researcher: A. Chyzhyk, **FINANCING ENTITY:** BASQUE GOVERNMENT, Programa de movilidad del personal investigador, **DURATION:** octubre 2012, **ENTIDADES PARTICIPANTES:** UPV/EHU, *Amount of the Subv:* 3.000 Euros

Title of the project: Microhilos compuestos – elementos básicos para sensores en coches de última generación Responsible researcher: A. Chyzhyk, **FINANCING ENTITY:** BASQUE GOVERNMENT, Programa de movilidad del personal investigador, **DURATION:** noviembre-diciembre 2013, **PARTICIP ENTITIES:** UPV/EHU, *Amount of the Subv:* 4.200 Euros

Title of the project: Microhilos magnéticos - elementos esenciales para que un vehículo pueda circular sin conductor. Responsible researcher: A. Chyzhyk, **FINANCING ENTITY:** BASQUE GOVERNMENT, Programa de movilidad del personal investigador, **DURATION:** noviembre-diciembre 2014, **PARTICIP ENTITIES:** UPV/EHU, *Amount of the Subv:* 4.200 Euros

Referencia: MAT2013-47231-C2-1- Responsible researcher 1: ARKADI ZHUKOV

EGOROVA, Applicant entity:

UNIVERSIDAD DEL PAIS VASCO EUSKAL HERRIKO UNIBERTSITATEA, Título: NUEVOS MATERIALES (MICRO-NANO ESTRUCTURADOS) PARA DISPOSITIVOS DE EXTRACCION Y CESION DE CALOR, ACTUADORES, SENSORES Y MEMORIAS MAGNET., **DURATION** 2014 4 años, *Amount of the Subv.* 89.796 euros

Title of the project: Microhilos - objetos únicos en la intersección de la investigación básica y aplicada, Responsible researcher: A. Chyzhyk, **FINANCING ENTITY:** BASQUE GOVERNMENT, Programa de movilidad del personal investigador, **DURATION:** november december 2015, **PARTICIP ENTITIES:** UPV/EHU, *Amount of the Subv:* 4.200 Euros

C.3. Contracts

C.4. Patents

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)

- 1) Evaluator of ANEP projects.
- 2) Positive evaluation in the Incorp Program. and Intensification of the Research Activity (Program I3) (ANEP).
- 3) Positive evaluation of accreditation "Professor hired doctor", "Professor of private university", "Assistant professor doctor" of National Agency of Evaluation of Quality and Accreditation (ANECA).
- 3) Positive evaluation of accreditation "Associate Professor" of "UNIBASQ"
- 4) Positive evaluation of accreditation Personal Doctor Researcher of the Agency for the Evaluation of Quality and Accreditation of the Basque University System (UNIQUAL).
- 5) Positive evaluation C1 and B1 of the Eval Agency. of Quality and Accreditation of the Basque University System (UNICAL).
- 6) Referee of publications in scientific journals: Journal of Applied Physics, Low Temperature



CURRICULUM VITAE (maximum 4 pages)

Physics Journal, Journal of Magnetism and Magnetic Matters

7) Referee of publication in the following international scientific congresses: INTERMAG 2008, Madrid, 2008

8) Co-Chairmen of Organizing Committee of International Congress "INTERNATIONAL WORKSHOP ON MAGNETIC WIRES (IWMW-2008)" University of the Basque Country, ZUMAIA, SPAIN, 09/05 / 2008-11 / 05/2008

Guest Editor of Proceedings of "International Workshop on Magnetic Wires (IWMW 2008)", in the magazine Pisica Status Solidi A, - applications and materials science.