Immanuel Kant Baltic Federal University

Dr KSENIA CHICHAY

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DATE AND PLACE OF BIRTH

23 December 1989, Abay city, Kazakhstan, USSR

SCIENTIFIC EXPERIENCE

8 years

H-INDEX

7 (Scopus)

EDUCATION

2012 – 2017:	PhD in physics: June 2017, Lomonosov Moscow State University Title of PhD Thesis: "Domain wall dynamics tunable through magnetoelastic interaction in structures with cylindrical symmetry" *PhD under supervision of Dr Valeria Rodionova, Immanuel Kant Baltic Federal University, Kaliningrad, Russia*
2007 – 2012	Diploma in physics Title of Thesis: "Formation and investigation of thin film structures of multiferroics for magnetoelectric applications" *Faculty of Physics and Technology, Department of Radio Physics and Electronics, Immanuel Kant Baltic Federal University, Kaliningrad, Russia*

EMPLOYMENT EXPERIENCE

Sep 2018 – current	International Research Center "Coherent X-ray optics for Mega-science facilities", Immanuel Kant Baltic Federal University *researcher*
July 2017 – Aug 2018	Center for Functionalized Magnetic Materials (FunMagMa) and Laboratory of Novel Magnetic Materials, Science and Technology Park "Fabrika", Immanuel Kant Baltic Federal University *researcher*
2014 – June 2017:	Laboratory of Novel Magnetic Materials, Science and Technology Park "Fabrika", Immanuel Kant Baltic Federal University *junior researcher*
2013 – 2016:	Laboratory of Novel Magnetic Materials, Science and Technology Park "Fabrika", Immanuel Kant Baltic Federal University *participant of "Scientific research providing" in the framework of government assignment from the Ministry of Education and Science of the Russian Federation*

2011 – 2013: Research and Education Centre “Functional Nanomaterials”, Innovation Park, Immanuel Kant Baltic Federal University
laboratory assistant

SCIENTIFIC INTERESTS

Magnetism and magnetic materials, nano- and microstructures, thin films, domain wall dynamics, skyrmions, refractive optics

MASTERED SCIENTIFIC INSTRUMENTS

- Pulsed Laser Deposition
- Magnetron Sputtering
- Scanning Electron Microscope (JEOL, Japan) with integrated Energy-Dispersive X-Ray Spectrometer (Oxford Instruments, England)
- Vibrating Sample Magnetometer by LakeShore (room, high, low temperatures, magnetoresistance option)
- Vector Vibrating Sample Magnetometer
- Vibrating Sample Anisometer
- Differential Scanning Calorimeter by NETZSCH
- Thermogravimetric Analyzer by NETZSCH
- Specialized setups for microwires measurements:
  - Setup for measurement of domain wall velocity by Sixtus-Tonks technique
  - Setup for measurement of magnetic properties by induction method
  - Setup for measurement of local nucleation field distribution along the magnetically bistable microwire
  - Setups for measurements of magnetostriction of microwires and bulk materials
- Ferromagnetic resonance
- Micromagnetic simulation software OOMMF and MuMax

GRANTS AND CONTRACTS PARTICIPATION:

- Coherent X-ray optics and methods based on it for high-energy diffraction-limited sources, #19-72-30009, supported by Russian Science Foundation, 2019-2022
  co-investigator, director: Prof. Anatoly Snigirev

- Research and development of a fundamentally new technology X-ray radiation properties nanoscale control based on the nanostructured materials of II period elements, Ministry of Education and Science of the Russian Federation grants 14.Y26.31.0002, 2014 – 2018
  co-investigator, director: Prof. Anatoly Snigirev

- Magnetic anisotropy distribution and relaxation in amorphous inhomogeneously stressed ferromagnetic microwires, G-RISC mobility grant to University of Duisburg-Essen, March – April 2018

- Trapping, pinning and injecting of domain wall in wire with cylindrical symmetry with diameters from submicron to few microns and control of domain wall propagation dynamics, Ministry of Education and Science of the Russian Federation in the framework of government assignment No3.4168.2017/ПЧ, 2017 – 2019
  co-investigator, director: Dr Valeria Rodionova

- Physics fundamentals for the creation of electromagnetic actuators based on microwires, project #17-12-01569, supported by Russian Science Foundation, 2017 – 2019
  co-investigator, director: Dr Valeria Rodionova

- Investigation of magnetoelectric interaction in layered composite structures with different parameters of magnetostrictive layer, mobility grant #15-32-50813 at Moscow Technological University MIREA under supervision of Prof. Yuri Fetisov, supported by Russian Foundation for Basic Research (RFBR), September – December 2015

- Development and creation of the microactuator based on magnetically bi-phase microwires, the winner of Youth Scientific-Innovation Competition "U.M.N.I.K, supported for 2015-2016, Moscow Institute of Physics and Technology, Moscow, Russia
  principal investigator

- Influence of thermal treatment and chemical composition on superelastic properties of novel ferromagnetic shape memory alloys FeMnAlNi, project #14-03-00758A supported by Russian Foundation for Basic Research (RFBR), 2014 – 2015
  co-investigator, director: Prof. Vladimir Khovaylo

- Investigation of field dependence of perpendicular to the field component of magnetic moment of amorphous ferromagnetic glass-coated microwires by vibrating sample anisometer, mobility grant #14-32-50926 at Lomonosov Moscow State University under supervision of Prof. Nikolay Perov, supported by Russian Foundation for Basic Research (RFBR), October – December 2014

- Investigation of magnetic and magnetotransport properties of Co-based Heusler alloys thin films, mobility grant at National University of Science and Technology "MISIS", under scientific supervision of Prof. Vladimir Khovaylo, supported by NUST "MISiS", June 2014 – October 2014

- Development of Magnetic actuator based on magnetically bi-phase microwires, Ministry of Education and Science of the Russian Federation in the framework of government assignment (No. 3.2582.2014/309 K), 2014-2016
  co-investigator, director: Dr Valeria Rodionova

- Investigation of magnetostriction and internal mechanical stresses effect on the domain wall dynamics and magnetic properties of amorphous ferromagnetic glass-coated microwires, project # 14-0231850 supported by Russian Foundation for Basic Research (RFBR), 2014-2015
  principal investigator

- Investigation of mechanical stress and thermal treatment effect on magnetostriction of ferromagnetic materials with cylindrical symmetry, mobility grant #13-02-90721 at National University of Science and Technology "MISIS", under scientific supervision of Prof. Sergey Kaloshkin, supported by Russian Foundation for Basic Research (RFBR), August – November, 2013
  principal investigator

- Individual Member Travel Grant by European Physical Society for participation at Donostia International Conference on Nanoscaled Magnetism and Applications (DICNMA), 9-13 September 2013, Donostia-San Sebastian, Spain

- Preparation and investigation of the thin film-like and wire-like nanostructures based on Ni-Mn-In and Ni-Mn-Ga alloys and thin films structures based on multiferroics, Ministry of Education and Science of the Russian Federation, №2011-16.513.11.3073, 2011-2012
  co-investigator, director: Dr Alexander Goikhman

PATENTS:

- V. Rodionova, N. Perov, V. Samsonova, K. Chichay. Ferromagnetic microwire-based manipulator, No 163031, 2016.
- M. Vazquez, R. El Kammouni, V. Rodionova, K. Chichay, N. Perov, I. Baraban, Microactuator based on bimagnetic coated core/shell microwres with asymmetric external shell and the use of it, Spain, 17382418.6 - 1568, 2017.
- V. Rodionova, I. Baaraban, K.Chichay, N. Perov, M.Vazquez, R. El Kammouni, Microactuator based on bimagnetic coated core/shell microwires with asymmetric external shell and the use of it, Russia, No2658108, 2018.

AWARDS

- First Prize Award at The International Joint School "Smart Nanomaterials and X-ray Optics 2016: Modeling, Synthesis and Diagnostics" for poster presentation, 12-16 October 2016, Kaliningrad, Russia

- Fully supported by IEEE Magnetic Society participation at the 7th IEEE Magnetics Society Summer School, 10 – 15 August 2014, Rio de Janeiro, Brazil

- Diploma for the second place at the 57th MIPT Scientific Conference for oral presentation, 24 – 29 November 2014, Moscow, Russia

- Diploma for outstanding presentation among the young scientists on the International Scientific Conference 'Functional Materials' (ICFM 2013), 29 September – 5 October 2013, Haspra, Crimea, Ukraine

RESEARCH STAYS AND INTERNSHIPS:

- Research stay at AG Farle "Structure and Magnetism of nanoscale systems", University of Duisburg-Essen, September – October 2017, Duisburg, Germany

- Research stay at Department of Magnetism, Lomonosov Moscow State University, under supervision of Prof. Nikolay Perov, August 2016, Moscow, Russia

- Research stay at Department of Magnetism, Lomonosov Moscow State University, under supervision of Prof. Nikolay Perov, June 2016, Moscow, Russia

- Internship at Bauer Group, Institute for Material Research, Tohoku University, under supervision of Dr Oleg Tretiakov, February – March 2016, Sendai, Japan

- Internship at Laboratory of Magnetism, University of the Basque Country, under supervision of Prof. Arkady Zhukov, January 2016, San Sebastian, Spain

- Internship at Department of Magnetism and Magnetic Nanomaterials, Ural Federal University, under supervision of Dr Vladimir Lepalovsky, September 2015, Yekaterinburg, Russia

- Training in advanced tools for modeling the magnetic properties and domain wall propagation in 1D nano- and micro- structures, Bauer Group, Institute for Material Research, Tohoku University, under supervision of Dr Oleg Tretiakov, 26 March – 25 June 2015 Sendai, Japan

- Training in modern methods of fabrication and investigations of the micro- and nano-systems magnetic properties, Group of Nanomgnetism and Magnetization Process, Institute

of Materials Science of Madrid, under supervision of Prof. Manuel Vazquez, 28 September – 10 November 2014, Madrid, Spain

- Training in modern methods of investigations of the micro- and nano-systems magnetic properties, Laboratory of Nanostructured Magnetic Materials, Institute of Structure of Matter, under supervision of Dr Gaspare Varvaro, 19 November – 18 December 2013, Rome, Italy

- Training in modern methods of investigations of the micro- and nano-systems magnetic properties, Laboratory of Magnetism of University of the Basque Country, under supervision of Prof. Arkady Zhukov, 4-30 July 2013, San Sebastian, Spain

- Training in modern methods of investigations of the novel magnetic materials magnetic properties, Nanotechnology Education and Research Center of Lomonosov Moscow State University, under supervision of Prof. Nikolay Perov, 31 March – 12 April 2013, Moscow, Russia

- Internship at Laboratory of Magnetism, University of the Basque Country, under supervision of Prof. Arkady Zhukov, November 2012, San Sebastian, Spain

- Internship at Laboratory of Magnetism, University of the Basque Country, under supervision of Prof. Arkady Zhukov, July 2012, San Sebastian, Spain

ORGANIZING WORK

- Scientific secretary of the International Baltic School 2019 "4-th Generation X-ray Sources: coherent optics and techniques" 26-29 August 2019, Kaliningrad, Russia

- Scientific secretary of the school-seminar "The 4th generation sources: optics and applications", 13-14 December 2018, Kaliningrad, Russia

- Scientific secretary of the International School on XFEL: Science and Instrumentation, 10-12 October 2018, Gdansk, Poland

- Scientific secretary of International Baltic Conference on Magnetism: Focus on Functionalized Magnetic Structures for Energy and Biotechnology (IBCM-2017), 20 – 24 August 2017, Svetlogorsk, Russia

- Scientific secretary of International Baltic Conference on Magnetism: Focus on Biomedical aspects (IBCM-2015), 30 August – 3 September 2015, Svetlogorsk, Russia

- Member of the Local Committee of Donostia International Conference on Nanoscaled Magnetism and Applications (DICNMA), 9-13 September 2013, Donostia-San Sebastian, Spain

- Member of the Organizing Committee of International Baltic School on Solid State and Magnetism Phenomena, 11-18 August 2012, Svetlogorsk, Russia

TUTOR OF MASTER STUDENTS

- Irina Machay: "Magnetic properties of fully and partially covered biphase microwires", 2015
- Elena Yushina: "Magnetic properties of FeGa thin films", 2013
- Yana Anekho: "Magnetization process in Fe- and FeCo-based microwires", 2013

LECTURES PREPARATION FOR BACHELOR COURSES

"Physics of low-dimensional and disordered system"
- Systems with cylindrical symmetry
- Formation methods of thin film structures

PUBLICATIONS

1. **K. Chichay**, V. Rodionova, V. Zhukova, M. Ipatov, N. Perov, M. Gorshenkov, N. Andreev, A. Zhukov, Tunable domain wall dynamics in amorphous ferromagnetic microwires, Journal of Alloys and Compounds, 835, 154843 (2020);

2. S. Shevyrtalov, I. Lyatun, A. Grunin, T. Ryba, S. Lyatun, **K. Chichay**, M. Gorshenkov, V. Rodionova, R. Varga, Martensitic transformation in Cu-doped Ni–Fe-Ga rapidly quenched ribbon, Physica B: Condensed Matter, 583, 412048 (2020);

3. S. V. Grigoriev, K. A. Pshenichnyi, I. A. Baraban, V. V. Rodionova, **K. A. Chichai**, A. Heinemann, "Measurement of the stiffness of spin waves in amorphous ferromagnetic microwires by the small-angle neutron scattering method", JETP Letters, 110:12, 793–798 (2019);

4. I. Baraban, M. Gorshenkov, N. Andreev, **K. Chichay,** V. Rodionova, The role of structural properties on magnetic characteristics of glass-coated microwires, Journal of Magnetism and Magnetic Materials, 459, 61-65 (2018);

5. A.A. Amirov, Y.A. Chaudhari, S.T. Bendre, **K.A. Chichay**, V.V. Rodionova, D.M. Yusupov, Z.M. Omarov, European Physical Journal B 91, 4, 63 (2018);

6. N.A. Boldyrev, A.V. Pavlenko, L.A. Shilkina, G.M. Konstantinov, A.V. Turik, E.I. Sitalo, A.A. Amirov, V.V. Rodionova, **K.A. Chichay**, L.A. Reznichenko, Obtaining, crystal and grain structure, macroresponses of the binary system solid solutions $(1-x)BiFeO_3$-$xPbTiO_3$, Springer Proceedings in Physics, 193, 25-35 (2017);

7. A. Chlenova, A. Svalov, S. Shevyrtalov, **K. Chichai**, V. Rodionova, G. Kurlyandskaya, Investigation of the Special Features of Low-Temperature Carbon Coating Deposition on the Permalloy Film Surface Under Normal Conditions During Interaction with Aromatic Solvents, Russian Physics Journal (2017);

8. **K. Chichay**, L. Fetisov, I. Baraban, V. Rodionova, Magnetoelectric Effect in CoFe Alloy/Piezoelectric/CoFe Alloy Three-Layered Structures, Journal of Superconductivity and Novel Magnetism, 30 (10), 2805 – 2809 (2017);

9. V. Rodionova, I. Baraban, **K. Chichay**, A. Litvinova, N. Perov, The stress components effect on the Fe-based microwires magnetostatic and magnetostrictive properties. Journal of Magnetism and Magnetic Materials, 422, 216-220 (2017);

10. G. Varvaro, D. Peddis, G. Barucca, P. Mengucci, V. Rodionova, **K. Chichay**, A. M. Testa, E. Agostinelli, and S. Laureti, Highly Textured FeCo Thin Films Deposited by Low Temperature Pulsed Laser Deposition, ACS Appl. Mater. Interfaces, 7 (40) (2015);

11. F. Fedulov, I. Machay, **K. Chichay**, L. Fetisov, The effect of annealing of the ferromagnetic layer on the characteristics of the magnetoelectric effect in composite

structures "amorphous ferromagnetic - piezoelectric", INTERMATIC-2015, part 2 (2015), p. 46-49 (in Russian);

12. **K. Chichay**, V. Rodionova, M. Ipatov, V. Zhukova, A. Zhukov, Effect of Temperature and Time of Stress Annealing on Magnetic Properties of Amorphous Microwires, Acta Physica Polonica A, Vol. 127 (2015);

13. S. Shevyrtalov, **K. Chichay**, P. Ershov, V. Khovaylo, A. Zhukov, V. Zhukova, V. Rodionova, Temperature Dependent Magnetic and Structural Properties of NiMnGa Heusler Alloy Glass-Coated Microwires, Acta Physica Polonica A, Vol. 127 (2015);

14. I. Dzhun, N. Chechenin, **K. Chichay**, V. Rodionova, Dependence of Exchange Bias Field on Thickness of Antiferromagnetic Layer in NiFe/IrMn Structures, Acta Physica Polonica A, Vol. 127 (2015);

15. I. Iglesias, R. El. Kammouni, **K. Chichay**, N. Perov, M. Vazquez, V. Rodionova, Magnetic Properties of CoFeSiB/CoNi, CoFeSiB/FeNi, FeSiB/CoNi, FeSiB/FeNi Biphase Microwires in the Temperature Range 295-1200 K, Acta Physica Polonica A, Vol. 127 (2015);

16. V. Belyaev, A. Grunin, **K. Chichay**, S. Shevyrtalov, A. Fedyanin, V. Rodionova, Magnetic Properties of Magnetoplasmonic Crystals Based on Commercial Digital Discs, Acta Physisca Polonoca A, Vol. 127 (2015);

17. V. Rodionova, S. Shevyrtalov, **K. Chichay**, A. Okubo, R. Kainuma, R.Y. Umetsu, M. Ohtsuka, A. Bozhko, V. Golub, M. Gorshenkov, M. Lyange, V. Khovaylo, Temperature dependent magnetic and structural properties of $Co_2(Fe,Ti)Ga$ thin films, Solid State Phenomena, Vols 233-234, pp. 674-677 (2015);

18. V. Rodionova, I. Dzhun, **K. Chichay**, S. Shevyrtalov, N. Chechenin, Enhancment of exchange bias in NiFe/IrMn, IrMn/NiFe and NiFe/IrMn/NiFe structures with different thickness of antiferromagnetic layer, Solid State Phenomena, Vols 233-234, pp. 427-430 (2015);

19. **K. Chichay**, V. Rodionova, M. Ipatov, V. Zhukova, A. Zhukov, Manipulation of magnetic properties and domain wall dynamics of amorphous ferromagnetic $Co_{68.7}Fe_4Ni_1B_{13}Si_{11}Mo_{2.3}$ microwire by changing of annealing temperature, Solid State Phenomena, Vols 233-234, pp. 269-272 (2015);

20. I. Iglesias, R. El Kammouni, **K. Chichay**, M. Vazquez, V. Rodionova, High temperature properties of CoFe/CoNi and Fe/CoNi biphase microwires, Solid State Phenomena, Vols 233-234, pp. 265-268 (2015);

21. **K. Chichay,** V. Rodionova, V. Zhukova, M. Churyukanova, S. Kaloshkin, A. Zhukov, Investigation of the magnetostriction coefficient of amorphous ferromagnetic glass coated microwires, Journal of Applied Physics, 116, 173904 (2014);

22. A. Zhukov, **K. Chichay**, A. Talaat, V. Rodionova, J.M. Blanco, M. Ipatov and V. Zhukova, Manipulation of magnetic properties of glass-coated microwires by annealing, Journal of Magnetism and Magnetic Materials, 383, 232-236 (2015);

23. V. Rodionova, **K. Chichay**, V. Zhukova, N. Perov, M. Ipatov, P. Umnov,

V. Molokanov, A. Zhukov, Tailoring of Magnetic Properties of Amorphous Ferromagnetic Microwires, Journal of Superconductivity and Novel Magnetism, 28 (3), 977-981 (2015) DOI 10.1007/s10948-014-2777-8;

24. V. Khovaylo, V. Rodionova, M. Lyange, **K. Chichay**, E. Gan'shina, A. Novikov, G. Zykov, A. Bozhko, M. Ohtsuka, R. Y. Umetsu, A.Okubo, R. Kainuma, Magnetic, magnetooptical and magnetotransport properties of Ti-substituted Co2FeGa thin films, Proceedings of SPIE Vol. 9172, 91720M (2014);

25. R. El Kammouni, I. Iglesias, **K. Chichay**, P. Svec, V. Rodionova, and M. Vazquez, High-temperature magnetic behavior of soft/soft and soft/hard Fe and Co-based biphase microwires, Journal of Applied Physics 116, 093902 (2014);

26. **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 215, 432-436 (2014);

27. S. Kaloshkin, A. Talaat, M. Ipatov, V. Zhukova, J.M. Blanco, M. Churyukanova, **K. Chichay**, A. Zhukov, Correlation between the magnetostriction constant and thermal properties of soft magnetic microwires, Physica Status Solidi (a) 211, 5, 1083-1086 (2014);

28. **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, Journal of Applied Physics 113, 17A318 (2013).

SCHOOLS AND CONFERENCES:

2019

XX Russian Federation Youth School-Seminar on Physics of Condensed Matter, *invited talk*, 21 – 28 November 2019, Ekaterinburg, Russia

EBS workshop on X-ray Spectroscopy of Magnetic Materials, *poster presentation*, 7-9 October 2019, Grenoble, France

11th International Workshop on nanomagnetism SpinS-2019, *poster presentation*, 2-4 October 2019 Duisburg / Mülheim an der Ruhr, Germany

XV School on Synchrotron Radiation "Gilberto Vlaic": Fundamentals, Methods and Applications, 16-27 September, Muggia, Italy

VII Euro-Asian Symposium "Trends in Magnetism" (EASTMAG-2019), *oral presentation*, 8-13 September, Ekaterinburg, Russia

III International Baltic Conference on Magnetism: focus on nanobiomedicine and smart materials (IBCM), poster presentation, 18-22 August, Svetlogorsk, Russia

V International Workshop Dzyaloshinskii-Moriya Interaction and Exotic Spin Structures, *oral presentation*, 8-12 July, Petrozavodsk, Russia

2018	International School on XFEL: Science and Instrumentation, *poster presentation*, 10-12 October 2018, Gdansk, Poland
	Joint DPG-EPS Spring Meeting 2018, *oral presentation*, 11 – 16 March 2018, Berlin, Germany
	29 Edgar Lüscher Seminar 2018, *poster present*ation, 3 – 9 February, Klosters, Switzerland
2017	Bad Honnef Physics School on Magnetism: From Fundamentals to Spin based Nanotechnology, 17 – 22 September 2017, Physikzentrum Bad Honnef, Germany
	Moscow International Symposium on Magnetism 2017, *poster presentation*, 1 – 5 July 2017, Moscow, Russia
	International conference on Magnetism and Spintronics Sol-SkyMag 2017, *oral presentation*, 19 – 23 June 2017, San Sebastian, Spain
	IEEE International Magnetics Conference Intermag Europe 2017, *poster presentation*, 24-28 April 2017, Dublin, Ireland
	48th IFF Spring School: Topological Matter – Topological Insulators, Skyrmions and Majorans, 27 March – 7 April, Julich, Germany
2016	The International Joint School "Smart Nanomaterials and X-ray Optics 2016: Modeling, Synthesis and Diagnostics", *poster presentation*, 12-16 October 2016, Kaliningrad, Russia
	International Seminar "Baltic Spin 2016 – Magnetization Dynamics of Micro- and Nano- structures), *oral presentation*, 9 – 13 August 2016, Jurmala, Latvia
2015	International Baltic Conference on Magnetism: focus in biomedicine aspects, *poster presentation*, 30 August – 3 September 2015, Svetlogorsk, Russia
	20th International Conference of Magnetism, *2 poster presentations*, 5-10 July 2015, Barcelona, Spain
	The 7th International workshop on microwires, *oral presentati*on, 2-3 July 2015, Ordizia, Spain
2014	57th MIPT Scientific Conference, *oral presentation*, 24 – 29 November 2014, Moscow, Russia
	XV Russian Federation Youth School-Seminar on Physics of Condensed Matter, *oral and poster presentations*, 13 – 20 November 2014, Ekaterinburg, Russia
	The International Joint School 'Smart Nanomaterials and X-Ray Optics 2014. Modeling, Synthesis and Diagnostics', *poster and oral presentations*, 22 – 25 September 2014, Kaliningrad, Russia
	Maria Curie School on Spintronics, 16 – 18 September 2014, Paris, France

7th IEEE Magnetics Society Summer School, *poster presentation* "Effect of annealing under applied stresses on magnetic properties and domain wall dynamics of amorphous ferromagnetic microwires", 10 – 15 August 2014, Rio de Janeiro, Brazil

Moscow International Symposium on Magnetism, *oral presentation*, 29 June – 3 July 2014, Moscow, Russia

The European Conference PHYSICS OF MAGNETISM 2014 (PM'14), *poster presentation*, 23-27 June, Poznan, Poland

IEEE International Magnetics Conference, INTERMAG Europe 2014, *poster presentation*, 4-8 May, Dresden, Germany

4th International Conference on Magnetism and Superconductivity, *representative of invited speaker Dr Valeria Rodionova and poster presentation*, 27 April – 2 May, Antalya, Turkey

School 'Magnetic Materials for Energy Applications', poster presentation «Manipulation of magnetic properties and domain wall dynamics in amorphous ferromagnetic microwires», 11-14 February 2014, Parma, Italia

2013

International Conference 'Functional Materials' (ICFM 2013), *2 poster presentations*, 29 September – 5 October 2013, Haspra, Crimea, Ukraine

V Euro-Asian Symposium 'Trends in MAGnetism': Nanomagnetisn (EASTMAG-2013), *oral presentation*, 15-21 September 2013, Vladivostok, Russia

Donostia International Conference on Nanoscaled Magnetism and Applications (DICNMA), *poster presentation and representative of invited speaker Dr Valeria Rodionova*, 9-13 September 2013, Donostia-San Sebastian, Spain

Introductory course on Magnetic Random Access Memory (inMRAM), 1-3 July 2013, Grenoble, France

International student, postgraduate and young scientist conference «Lomonosov-2013», *oral presentation*, 8-13 April 2013, Moscow, Russia

2012

First International Baltic School on Solid State and Magnetism Phenomena, poster presentation «Composite thin-films multiferroic structure: production and investigation», 11-18 August 2012, Kaliningrad region, Russia

Italian School on Magnetism, 5-12 February 2012, Pavia, Italy