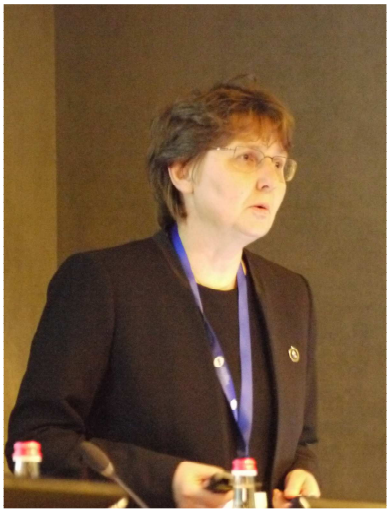

CURRICULUM VITA

Galina V. Kourliandskaia, Ph.D, Dr of Science in Physics of Magnetic Phenomenon
(G.V. Kurlyandskaya)

University of Basque Country UPV-EHU, Faculty of Science and Technology,
Department of Electricity and Electronics, Apdo 644, E-48080 Bilbao, Spain.
Phone: (34)-94-601-32-37; Fax: (34)-94-601-30-71; E-mail: galina@we.lc.ehu.es

SUMMARY

- Extensive experience in the design, development, processing and characterization of Functional materials, Nanostructures, Biomaterials, Magnetic markers, Nanocomponent containing devices, and fabrication of miniature sensor prototypes including fluid containing detectors and imprint circuit units.
- X-Ray (low and high angular), Neutron scattering, and microscopy (SEM, TEM, AFM, Optical microscopy, MOKE).
- Extensive experience in processing of materials under special conditions (protective atmosphere, strict temperature conditions, clean room processing, biomaterials, radioactive materials, in presence of laser radiation, etc.).
- Impedance spectroscopy, magnetoimpedance spectroscopy.
- Laser ablation and surface treatments with lasers.
- Strong skills in magnetic and magnetotransport measurements.
- Ability to solve problems under stress conditions and with minimum instrumentation/cost.
- Microwave properties of magnetic materials and composites (resonant and non-resonant absorption).
- Magnetic materials for biomedical applications, magnetic biosensors, experience with “clean room”.

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AWARDS and GRANTS

2005/2004	Invitations for academic activity and Research Scholarship for advanced training
2007, 2008, 2011, 2013, 2015, 2016	The University of Maryland, Faculty of Physics, College Park, USA.
2015	The Rowan University, Glassboro, USA
2014	CBPF, Rio de Janeiro, Brazil
2014	Federal University of Santa Maria, Santa Maria, Brazil
2012/2013	SAIOTEK REMASEN Grant, Bilbao, Spain
2010/2011	SAIOTEK MAGNOSEN Grant, Bilbao, Spain.
2005/2007	Fellowship of Ural State University for Dr of Science defence
2003/2008	“Ramón y Cajal” Fellowship of Ministry of Science, Technology and Education of Spain (under support of European Community): “Giant Magnteoimpedance effect in amorphous and nanostructured magnetic materials for high sensitivity sensors and their applications in chemistry, biology, and medicine”
2000	Professor replacement (C3), Heinrich Heine University of Düsseldorf, Germany.

2002 Invited Professor, Polytechnic College of Cachan, Cachan, France.
1997 Sabbatical Professor, Institute of Applied Magnetism, University Complutense of Madrid, Spain
1983 Award of Russian Federation Competition of the University Diploma Projects

PROFESSIONAL EXPERIENCE

DEPARTMENT OF ELECTRICITY AND ELECTRONICS, UNIVERSITY OF BASQUE COUNTRY UPV-EHU, SPAIN (1998-2001, 2004-present)

Visiting scientist, Invited professor, Research Professor "Ramón y Cajal", Research Professor (full time permanent position with half time research and half time teaching obligations).

- Design and teaching of 2 parts of Master Courses: nanomaterials and electronic materials (2009-2016).
- Teaching course "Experimental techniques for undergraduates (2013-2016).
- Designed and teaching of "MAGNETIC NANOSTRUCTURES and MAGNETODYNAMICS for APPLICATIONS" course in collaboration with Prof. H. Srikanth from the University of South Florida, USA.
- Design and teaching of two courses for PHD students on new generation of magnetic biosensors (2005-2009).
- Teaching of the course on magnetic materials for 5^{th} year University students.
- Teaching of the problems for the course "Electromagnetism I" for 2^{nd} year University students (2009)
- Design and teaching of the course on intelligent magnetic materials for Master course of the Basque Country University "Intelligent Materials" (2007).
- Designed and tested new method of label-free magnetoimpedance based electrochemical biosensing with soft magnetic electrodes.
- Design of synergetic combinations of magnetic nanomaterials for sensor applications (GMR, GMI, FMR) to obtain the best sensitivity. Design and development of biosensor prototypes based on magnetic label detection.
- Designed and tested new method of laser deposition adapted for soft magnetic materials.
- Established co-operation with University of Oviedo (Spain), Ural Federal University (Russia), Baltic I.Kant Federal University (Russia), University of Maryland (USA), Cabot Corporation (OH) and University of Buenos Aires (Argentina) in areas of nanoparticles and nanostructures for biomedical and sensor applications.
- Supervised students and graduates:
- **Defended Bachelor Diploma** in period of 2012-2018: **Nerea Villar Alzola** (Physics, Electronic Engineering), **Iñaki Madinabeitia** (Physics, Electronic Engineering), **Irune Zalbidea Arrechaga** (Physics), **Begoña Gonzalez Asensio** (Physics, Electronic Engineering), **Aizeti Burgoa Beitia** (Physics, Electronic Engineering), **Aida Ballesteros Jiménez** (Physics), **Lucía Álvarez Guerra** (Physics), **Joseba Totoricaguena Gorriño** (Physics).
- Defended Master Thesises: **Lourdes Marcano Prieto** (2014), **Keesjan Lodewijk** (2014, Iternational ERASMUS student from University of Groningen, Thesis defended in Groningen), **Aizeti Burgoa Beitia** (2016).
- **Reviewer for 30 international journals** (Applied Physics Letters, Journal of Applied Physics, Biosensors and Bioelectronics, Journal of Magnetism and Magnetic Materials, Journal of Alloys and Compounds, Journal of Physics and Chemistry of Solids, Sensors, Sensors and Actuators A and B, Solid State Phenomena, Physica Status Solidi A and B, etc.).

PHYSICS DEPARTMENT, UNIVERSITY OF OVIEDO, OVIEDO, SPAIN (2001-2004)
Visiting professor, Research professor “Ramón y Cajal"

- Designed and taught part of summer courses “Art of the Magnetism”(2008-2010) .
- Designed a course on new generation of physical and chemical sensors.
- Teaching of the course on experimental techniques.
- Design and testing of sensor prototypes for measurements with ferrofluids.
- Developed of modification of imprinted circuit boards for precise GMI measurements in extended rang of frequencies and geometries.
- PHD student Vanesa Fal Miyar, **thesis defended (04.07.2008).**

INSTITUTE OF METAL PHYSICS (IMP) RUSSIAN ACADEMY of SCIENCIES (1984-1996)
Research Scientist (Team leader)

- Lead group of magnetic properties of grain oriented electrotechnical steels and amorphous materials (materials choice, processing conditions, thermomechanical treatments, development of methods of domain structure visualization, current control).

Research Associate, Physical Metallurgy Lab., IMP (1983-1992).

- Investigated the dislocation structure and magnetic properties of Fe3%Si monocrystalls and FeSi steels in course of thermomechanical treatment. Invented particular processing of production for lower core losses structures.
- Identified conditions for low angular boundaries formation and their influence core losses in FeSi alloys. Invented methods to control the low angular boundaries features.
- Elaborated conditions and explained reasons for magnetostriction increase in textured FeAl and FeSi alloys.

URAL STATE UNIVERSITY, URAL FEDERAL UNIVERSITY
Visiting professor

- Design and teaching of the course “Biomagnetism and magnetic nanomaterials” for 5th year students or Master students (2008-2015).
- PHD student Stanislav Volchkov, **thesis defended (10.12.2009)**.
- Design and teaching of the course “Presenting research results in English” for Master students (2018).

B.S. and M.S. diploma + thesis, **Tatyana Zayarnaya** (1989-1990), **Julia Novoselova** (2014-2016), **Anna Chlenova** (2014-2016), **Grigory Melnikov** (2018).

Research Assistant, Low temperature physics laboratory of Urals State University, (1982)

- Designed and manufactured: the equipment for laboratory exercises of the university students for measurements of transport properties at cryogenic temperatures.

PROFESSIONAL MEMBERSHIPS AND COMMITTEES

2007-2017 **IEEE Senior Member** (Magnetic Society Nº 90313587).
1997-2011 Organizing Committee of International Conferences (9).
2003-now Editorial board of “Sensor Letters” Journal, American Scientific Publishers, USA.
2003-now Spanish Club of Magnetism.
1999-2014 PhD councils for thesis defence: Spain and Argentina (6)
2005-2006 ASM International , USA

EDUCATION

B.S. and M.S. Physics and Teaching of Physics, Urals State University, USSR (1983)

Ph.D. Physics of Magnetic Phenomena and Electronic Eng., Urals State University, Sverdlovsk, USSR (1990). Thesis:" Thermomechanical thereatment above the Curie point and its influence upon magnetic properties of Fe3%Si Alloy".
Dr.of Sci. (advanced degree in Physics of Magnetic Phenomena), Urals State University, Ekaterinburg, Russia, (Defence in 19.11.2007, approved by the Attestation Commission in 2008). Thesis:"Giant magnetoimpedance and its connection with magnetic anisotropy and magnetization processes of ferromagnetic structures".

PROFESSIONAL COURSES
"Microelectonic course for "clean room" France (2009). "The microscopy of the future" (2004); Leica Microsystems course, Spain. "Video graphic reproduction" 2003; University of Oviedo, Spain. "Cancer and new therapies" 2002; University of Oviedo, Spain. "Information technologies and teaching" (2001); University of Oviedo, Spain. "Components measurements-99" (1999); Hewlett Packard information seminar, Spain. "Advanced magnetic materials" (1997); Complutense University, Spain. "International Summer School on Magnetism" (1994); Low Temperature Institute, Ukraine.

PUBLICATIONS
Books and book chapters (10); Patents (4); Publications in refereed journals (above 220), e-archives electronic publications (2).

SELECTED INVITED TALKS
1. G.V. Kurlyandskaya, Nanoparticles for Magnetic Biosensing Systems, INRIM Seminar, Torino, Italy, 14th October, 2016.
2. G.V. Kurlyandskaya, Magnetoimpedance sensitive elements based on CuBe/FeCoNi electroplated wires in single and double wire configurations, Europeand Magnetic Sensors and Actuators Conference, Torino, Italy, 12-15 July, 2016.
3. G.V. Kurlyandskaya, Nanostructured materials for magnetic biosensing, 6th ZING Bionanomaterials Conference, Varna, Bulgaria, May 2016.
4. G.V. Kurlyandskaya, Nanoparticles for Magnetic Biosensing Systems, 14 th International Conference on Magnetic Fluids, Ekaterinburg, Russia, July 2016.
5. G.V. Kurlyandskaya, Magnetic nanoparticles obtained by electric explosion of wire and composites for "smart" material applications, III Brazilian Workshop on Magnetiodynamics Santa Maria November 19-21, 2014.
6. G.V. Kurlyandskaya, Laser target evaporation Fe2O3 nanoparticles for water based ferrofluids: focus on biomedical applications», International Magnetics Conference (Intermag Europe 2014), 4-8 May 2014, Dresden.
7. G.V. Kurlyandskaya Development of Polymer-Permalloy film composites with or without nanoparticles for sensor and microwave applications, 4th International Conference on Materials and Applications for Sensors and Transducers (IC-MAST-2014), Bilbao, Spain, June 8-11, 2014.
8. G. V. Kurlyandskaya, New materials for magnetic biodetection, XXIV Russian Conference of Young Researches, Ekaterinburg, Russia, 23-25 April, 2014.
9. G.V. Kurlyandskaya, "Structural and magnetic properties of nanoparticles of NiCuZn ferrite prepared by the self-combustion method" S.E. Jacobo, J.C. Aphesteguy N.N. Shegoleva and G.V. Kurlyandskaya,, 4nd Euro-Asian Symposium "Trends in Magnetism": Nanospintronics (EASTMAG-2010), Ekaterinburg, Russia, June 28 – July 2, 2010.
10. G.V. Kurlyandskaya,11th Joint Magnetism and Magnetic Materials - INTERMAG Conference, Washington DC, USA "Structure and Electrical Resistivity of Sputtered Tb/Ti and Tb/Si Magnetic

Multilayers" D. Diercks, A.V. Svalov, M. Kaufman, V.V. Vas'kovskiy, G.V. Kurlyandskaya, Enero 2010.

11. G.V. Kurlyandskaya, "Microwave resonant and zero-field absorption for selected types of nanoparticles designed with focus on biomedical applications" G.V. Kurlyandskaya, S.M. Bhagat, S.E. Jacobo, J.C. Aphesteguy, N.N. Schegoleva4, 4th Seeheim Conference on Magnetism, Frankfurt, Germany, March 28th - April 1st, 2010.
12. G.V. Kurlyandskaya, "FeNi-based film nanostructures for high frequency applications: design and characterization" G.V. Kurlyandskaya, S.M. Bhagat, A.V. Svalov, E. Fernandez, A. Garcia-Arribas and J.M. Barandiaran, 4nd Euro-Asian Symposium "Trends in MAGnetism": Nanospintronics (EASTMAG-2010), Ekaterinburg, Russia, June 28 – July 2, 2010.
13. G.V. Kurlyandskaya, BIONATUR Association of UPV-EHU "Biomagnetic sensors: from research laboratory to every day lives, 17-11-2010, Leioa.
14. G.V. Kurlyandskaya, Moscow International Symposium on Magnetic Materials, 2008, "Giant magnetoimpedance for biosensing: advantages and shortcomings", Moscow State University, Moscow, Russia.
15. G.V. Kurlyandskaya, "Magnetic Biosensors", 2007, Institute of Material Science, Madrid, Spain.
16. G.V. Kurlyandskaya, "Nanoparticles proposed for biomedical applications: summary of characterization" 2007, University of Oviedo, Oviedo, Spain.
17. G.V. Kurlyandskaya, "Introduction into Magnetic Biosensors", 2006, One day Tutorial related to EMSA -2006 European Conference on Magnetic Sensors and Actuators, Bilbao, Spain.
18. G.V. Kurlyandskaya, "Giant magnetoimpedance for biosensing", 2006, Nanotechnology Center of Zaragoza, Zaragoza, Spain.
19. G.V. Kurlyandskaya, "Giant magnetoimpedance: new electrochemical option to monitor surface effects?" 2006, The Ohio State University, MSE Department, Ohio, USA.
20. G.V. Kurlyandskaya, "Santiago Ramón y Cajal, the Nobel Prize winner in Physiology and Medicine (the structure and connections of neurons)", 2006, St.Georges Guild, Madrid, Spain.
21. G.V. Kurlyandskaya, "Biomedical applications of nanomaterials", 2004, Urals State University, Ekaterinburg, Russia.
22. G.V. Kurlyandskaya, "Magnetic materials for medical applications", 2003, St. Georges Guild, Madrid, Spain.
23. G.V. Kurlyandskaya, "Rare Earth – Transition Metal nano-scale thin films", 2003, Basque Country University, Bilbao, Spain.
24. G.V. Kurlyandskaya, "High sensitive magnetic sensors", 2002, ENS-Cachan, France.
25. G.V. Kurlyandskaya, "GMI-based magnetic sensors", 2001, University of Oviedo, Spain.
26. G.V. Kurlyandskaya, "Advantages of GMI for sensor applications", International Conference on Advanced Magneto-resistive Materials, 2001, Ekaterinburg, Russia.
27. G.V. Kurlyandskaya, "Resent advances of GMI materials (thin films)", 2000, Robert Bosch GmbH, Corporate Research and Development, Stuttgart, Germany.
28. G.V. Kurlyandskaya, "Resent advances of GMI materials", 1999, Heinrich Heine University of Düsseldorf, Germany.
29. G.V. Kurlyandskaya, "Giant magneoimpedance and problem of hysteresis", 1997, University of Oviedo, Spain.
30. G.V. Kurlyandskaya, "Giant magneoimpedance and induced magnetic anisotropy", 1997, Basque Country University, Spain.

LANGUAGUES Russian (native), English, Spanish, (experience of teaching in Russian, English, Spanish).

BOOKS AND BOOK CHAPTERS

1. Vázquez M., El Kammouni R., **Kurlyandskaya G.V.**, Rodionova V., L. Kraus (2016) (ISBN 978-3-319-26104-1), Chapter: Bimagnetic Microwires, Magnetic Properties, and High-Frequency Behavior Springer Series in Materials Science; Series editors R. Hull, C. Jagadish,Y. Kawazoe, R. M. Osgood, J. Parisi, T.-Y. Seong, Sh. Uchida, Z. M. Wang, Vol. 231, pp. 279-310.
2. **Kurlyandskaya, G.V.** and V.I. Levit (2012) (ISBN: 978-5-7996-0681-7): Material science: Monocrystals (textbook), Editoroial of Ural State University Ekaterinburg, Russia., pp.1-180.
3. **Kurlyandskaya, G.V.** and Cerdeira M.A. (2011) (ISBN: 1-58881-165-7): Giant magnetoimpedance for biosensing: Encyclopedia of Nanoscience and Nanotechnology, 2nd Edition, American Scientific Publishers, Ed. H.S. Nalwa, Vol. 15, pp. 1-17.
4. Vas´kovskiy, V.O., Svalov, A.V., **Kurlyandskaya G.V.** (2011) (ISBN: 1-58881-165-5): Rare Earth/Transition Metal nanoscale multilayers, Encyclopedia of Nanoscience and Nanotechnology, 2nd Edition, American Scientific Publishers, Ed. H.S. Nalwa, Vol. 16, pp. 75-98.
5. **G.V. Kurlyandskaya** (2010) (ISBN 978-5-7996-0514-8): Chapter "Magnetic nanometerials in biomedical applications", in "Physics, techlology and tecniques of magnetic materials", Editorial of Ural State University, p. 197-244.
6. **Kurlyandskaya, G.V.** and Cerdeira M.A. (2008) (ISBN 978-5-7996-0361-8): Chapter "Magnetic nanoparrticles as a material for magnetic markers in biology and medicine", in book "Magnetism of Rare Earth and 3d- Transition Metals Based Nanosystems Ed. by. V.O. Vas´kovskiy, Editoroial of Ural State University Ekaterinburg, Russia, pp. 227-275.
7. Vas´kovskiy, V.O., Svalov, A.V. **Kurlyandskaya, G.V.** (2008) (ISBN 978-5-7996-0361-8): Multilayered films of 3d and 4f metals, in book "Magnetism of Rare Earth and 3d- Transition Metals Based Nanosystems Ed. by. V.O. Vas´kovskiy, Editoroial of Ural State University Ekaterinburg, Russia, pp. 60-118.
8. García, J.A. Saad, A., Elbaile, L., **Kurlyandskaya, G.V.** (2007): ISBN-13 978-1-60021-017-Surface Magnetic Properties and Magnetoimpedance in Metallic Glasses for New Sensor Applications, Nova Science Publishers, Progress in Nanotechnology Research, Ed. E.V. Dirote, pp. 1-42.
9. **Kurlyandskaya G.V.** (2006): (ISBN 158883-060-8): Giant Magnetoimpedance for sensor applications, Encyclopedia of Sensors, American Scientific Publishers, Edited by C. A. Grimes, E. C. Dickey, and M. V. Pishko, Vol. 4, pp. 205-237.
10. Hernando, B. Gorria, P. Sánchez, M.L. Prida, V.M., **Kurlyandskaya, G.V.** (2004): (ISBN 158883-001-2), Chapter ENN29: Magnetoimpedance in nancrystalline alloys, Encyclopedia of Nanoscience and Nanotechnology, American Scientific Publishers, Vol.4, pp. 949-966.
11. Vas´kovskiy, V.O., Svalov, A.V., **G.V. Kurlyandskaya** (2004): (ISBN 158883-001-2), Chapter ENN28, Rare Earth/Transition Metal nanoscale multilayers, Encyclopedia of Nanoscience and Nanotechnology, American Scientific Publishers, Vol.4, pp. 925-947.
12. **Kurlyandskaya G.V.** (1994): (ISBN5-85865-038-4). The first astronomy (school textbook with book for teacher), Edition «Bank Kulturnoi Informacii», Ekaterinburg 80+30 pages.

PATENTS

1. Gubernatorov, V.V., Ketov, S.P., Bryshko, N.A., Sokolov, B.K., **Kurlyandskaya**, **G.V.,** Vladimirov, L.R.: Technique for the Production of Anisotropic Electrical Steel Stripe, USSR Patent N 1647030, reg. Jan.8, 1991.
2. Gubernatorov, V.V., Ketov, S.P., Zaykova,V.A., **Kurlyandskaya**, **G.V.,** Sokolov, B.K., Vladimirov, L.R., Chistuakov, V.K., Tsirlin, M.V.: Technique for the Production of Anisotropic Electrical Steel, USSR Patent N 1704469, reg. Aug.8, 1991.

3. Gubernatorov, V.V., Ketov, S.P., Sokolov, B.K., Vladimirov, L.R., **G.V. Kurlyandskaya**, Chistuakov, V.K., Tsirlin, M.V.: Technique for the Production of Anisotropic Electrical Steel, USSR Patent N 1800845, reg. Oct.9, 1992.
4. Vas´kovskiy V.O., **Kurlyandskaya**, **G.V.**, Savin P.A., Svalov A.V., Sorokin A.N. Method, device for multilayer films and multilayer structures fabrications and , multilayered structure obtained using proposed method and device, RU02451769 C2, 2012.

E-archives

1. **Kurlyandskaya, G.V.,** Fal Miyar, V., 2006. Cornel University e-archive, pp.1-22. http://www.arxiv.org/abs/cond-mat/0605572.
2. **Kurlyandskaya, G.V**., Bhagat, S.M., 2005. Cornel University e-archive, pp. 1-42. http://arxiv.org/abs/cond-mat/0501449.

INDUSTRIAL JOURNALS

1. Safronov A.P., Beketov I.V., Samatov O.M., **Kurlyandskaya G.V.**, Bhagat S. M., Larrañaga A., Orue I., Andrade R., Nanofluids for biomedical applications using spherical iron oxide magnetic nanoparticles fabricated by high-power physical evaporation, Material Matters (Sigma Aldrich) Vol. 9 (2) (2014) 58-62.

PUBLICATIONS IN REFEREED JOURNALS

1. G.V. Kurlyandskaya, A.P. Safronov, S.M. Bhagat, A. Larrañaga, A.V. Bagazeev, Magnetic and microwave properties of Fe18Ni82 nanoparticles with close to zero magnetostriction, Journal of Magnetism and Magnetic Materials 465 (2018) 156–163.
2. A.V. Svalov, V.O. Vas'kovskiy, V.N. Lepalovskij, A. Larrañaga, G.V. Kurlyandskaya, Structure and magnetic properties of Tb-Co/Ti and Tb-Co/Al2O3 multilayers, Journal of Magnetism and Magnetic Materials 465 (2018).
3. A.V. Svalov, O.A. Adanakova, V.O. Vas'kovskiy, K.G. Balymov, A. Larrañaga, G.V. Kurlyandskaya, R. Domingues Della Pace, C.C. Plá Cid Thickness dependence of magnetic properties of thin amorphous ferrimagnetic rare earth–transition metal multilayers, Journal of Magnetism and Magnetic Materials 459 (2018) 57–60.
4. J.M. González, A. García-Arribas, S.V. Shcherbinin, V.N. Lepalovskij, J.M. Collantes, G.V. Kurlyandskaya, Broadband ferromagnetic resonance measurements in thin-film structures for magnetoimpedance sensors, Measurement 126 (2018) 215–222.
5. G.V. Kurlyandskaya, S.V. Shcherbinin, S.O. Volchkov, S.M. Bhagat, E. Calle, R. Pérez, M. Vazquez, Soft magnetic materials for sensor applications in the high frequency range Journal of Magnetism and Magnetic Materials 459 (2018) 154–158.
6. E. V. Golubeva, E. A. Stepanova, K. G. Balymov, S. O. Volchkov, and G. V. Kurlyandskaya, Magnetic Properties and the Giant Magnetoimpedance of Amorphous Co-Based Wires with a Carbon Coating, Physics of Metals and Metallography, 2018, Vol. 119, No. 4, pp. 324–331.
7. A.V. Svalov, P.A. Savin, V.N. Lepalovskij, V.O. Vas'kovskiy, A. Larrañaga, G.V. Kurlyandskaya, Ferromagnetic phase in partially oxidized FeMn films, Journal of Magnetism and Magnetic Materials 451 (2018) 546–548.
8. Felix A. Blyakhman, Nikita A. Buznikov, Tatyana F. Sklyar, Alexander P. Safronov, Elizaveta V. Golubeva, Andrey V. Svalov, Sergey Yu. Sokolov, Grigory Yu. Melnikov, Iñaki Orue, Galina V. Kurlyandskaya, Mechanical, Electrical and Magnetic Properties of Ferrogels with Embedded Iron

Oxide Nanoparticle Obtained by Laser Target Evaporation: Focus on Multifunctional Biosensor Applications, Sensors 2018, 18, 872.
9. Joanes Berasategi, Ainara Gomez, M Mounir Bou-Ali, Jon Gutiérrez, Jose Manuel Barandiarán, Igor V Beketov, Aleksander P Safronov, Galina V Kurlyandskaya, Fe nanoparticles produced by electric explosion of wire for new generation of magneto-rheological fluids, Smart Mater. Struct. 27 (2018) 045011.
10. Kurlyandskaya G.V., Novoselova, I.P., Schupletsova, V.V., Andrade R., Dunec N.A., Litvinova, L.S., Safronov, A.P., Yurova, K.A., Kulesh, N.A., Dzyuman, A.N., Khlusov I.A., Nanoparticles for magnetic biosensing systems, J. Magn. Magn. Mater. (2017).
11. Kurlyandskaya G.V., El Kammouni R., Volchkov S.O., Shcherbinin S.V., Larranaga A., Magnetoimpedance sensitive elements based on CuBe/FeCoNi electroplated wires in single and double wire configurations, IEEE Trans. Magn. (2017) DOI: 10.1109/TMAG.2016.2619739.
12. Lotfollahi Z., García-Arribas A., Amirabadizadeh A., Orue I., Kurlyandskaya G.V. Comparative study of magnetic and magnetoimpedance properties of CoFeSiB-based amorphous ribbons of the same geometry with Mo or W additions, J. Alloys Comp. Vol.693 (2017) 767-776.
13. El Kammouni R., Chlenova A.A., Volchkov S.O., Kurlyandskaya G.V., Magnetic properties and magnetoimpedance of FeCoNi/CuBe electroplated tubes with different features of field-annealing, J. Magn. Magn. Mater. Vol. 423 (2017) 183-190.
14. Kurlyandskaya, G.V. Bhagat, S.M.; Bagazeev, A.V. Medvedev A.I., Ballesteros A., Beketov, I.V., Safronov A.P. Structure, magnetic and microwave properties of FeNi invar nanoparticles obtained by electrical explosion of wire in different preparation conditions, J. Phys. Chem. Solids Vol. Vol. 98 (2016) 255-262.
15. Chlenova A.A., Melnikov G.Yu., Svalov A.V., Kurlyandskaya G.V. Magnetoimpedance effect in the FeNi/Ti-based multilayered structure: A pressure sensor prototype, AIP Conference Proceedings Vol. 1767(2016) 020004.
16. Novoselova Iu.P., Safronov A.P., Samatov O.M., Kurlyandskaya G.V. Magneto-inductive heating of water-based iron oxide ferrofluids, AIP Conference Proceedings Vol. 1767(2016) 020016.
17. Svalov A.V., Kurlyandskaya G.V., Balymov K.G., Vas'kovskii V.O. Spin valves based on amorphous ferrimagnetic Gd–Co films. Phys. Met. Metal. Vol. 117(9) (2016) 876-882.
18. Portnov D.S., Beketov I.V., Larranaga A., Martinez-Amesti A., Kurlyandskaya G.V. Large internal strains in very small iron oxide nanoparticles fabricated by spark discharge with electrodynamic acceleration of plasma jumpers, Vacuum 132 (2016) 1-4.
19. Rodionova, V.V. Kurlyandskaya, G.V. Untitled Preface, J. Magn. Magn. Mater. Vol. 415 (2016) 1.
20. Shalygina E.E, Svalov A.V., Kharlamova, A.A, Ganshina, E., Doronin, D., Kurlyandskaya, G.V., Influence of Bi on the magnetic and magneto-optical properties of Co/Bi/Co and Bi/Co thin-film systems, Jap. J. Appl. Phys Vol. 55(7) (2016) 07MF01.
21. Influence of Bi on the magnetic and magneto-optical properties of Co/Bi/Co and Bi/Co thin-film systems Novoselova I.P., Safronov A.P., Samatov O.M., Beketov I.V., Medvedev A.I., Kurlyandskaya G.V. Water based suspensions of iron oxide obtained by laser target evaporation for biomedical applications, J. Magn. Magn. Mater. Vol. 415 (2016) 35-38.
22. Kulesh N.A., Novoselova I.P., Safronov A.P., Beketov I.V., Samatov O.M., Kurlyandskaya G.V., Morozova M.V. Denisova T.P. Total reflection x-ray fluorescence spectroscopy as a tool for evaluation of iron concentration in ferrofluids and yeast samples J. Magn. Magn. Mater. Vol. 415 (2016) 39-44.
23. Chlenova A.A., Svalov A.V. Kurlyandskaya, G.V., Volchkov S.O. Magnetoimpedance of FeNi-based asymmetric sensitive elements, J. Magn. Magn. Mater. Vol. 415 (2016) 87-90.

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