


CURRICULUM VITAE

Personal Data

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|---|---------------|---|-----------------------------------|
| Name PEROV Nikolai Sergeevich | | Sex X Male Female | Nationality Russian Federation |
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| (Family), (First), (Middle) | | | |
| Date of Birth May 22, 1954 | (Age) (63) | Present Address Moscow region, Vidnoe-town, Petrovsky proezd b.12, ap.43 | |

Education (Institutions attended high-school level)

| Dates (Month/Year) From to | Names and Address of Institution | Field of Study | Degrees and/ or Licenses |
|-------------------------------|--|---------------------------------|--------------------------------|
| 01.09.1971 - 31.01.1977 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | physics of solids, Magnetism | Specialist of physics |
| 01.09.1979 - 31.05.1981 | Faculty of the economic operation control, Marksizm-Leninzm University - branch of MSU, Moscow, Leninskie Gory, MSU, 119991 | Control of economy activity | Specialist of economy |
| 01.05.1979 - 30.04.1982 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | physics of solids, Magnetism | PhD on physics and mathematics |

Employment Experience

| Dates (Month/Year) From to | Names and Address of Institutions | Positions | Types of work |
|-------------------------------|---|-----------|------------------------|
| 01.02.1977 - 31.08.1979 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | engineer | research, education |

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| 01.09.1979 - 30.09.1980 | Rector administration, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | Senior inspector | administrative |
| 01.10.1980 - 30.09.1988 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 Faculty of physics, Moscow State University. Moscow, Vorob'evy Gory, MSU, 119991 | engineer | research, education |
| 01.10.1988 - 30.09.1992 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | scientific researcher | research, education |
| 01.10.1992 - 31.03.2000 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | senior researcher | research, education |
| 31.03.2000 – 28.02.2011 | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | associate professor | research, education |
| 01.06.2007- 31.06.2013 | magnetism department, Faculty of physics, Moscow State University. 119991 | Vice-chairman | administrative |
| 01.03.2011 – present time | Faculty of physics, Moscow State University. Moscow, Leninskie Gory, MSU, 119991 | professor | research, education |
| 01.06.2013 – present time | magnetism department, Faculty of physics, Moscow State University. 119991 | Head of department | Administrative, research |
| 01.06.2014 – present time | Baltic Federal University | Senior researcher | research |
| Visiting experience: | | | |
| 01.04.1997 - 30.09.1997 | Interdisciplinary Research Center of Tohoku University (Japan) | visiting professor | research |
| 25.04.2001 - 31.03.2002 | Department of electric and electronic engineering, Toyohashi University of Technology, Tempaku, Toyohashi, 441-8580 Japan | visiting professor | Research |
| 3.08.2003 - 31.08.2003 | Department of mechanical engineering, NUS, Singapore | Visiting researcher | Research |
| 01.09.2007 - 30.09.2007 | Faculty of Physics, University Duisburg-Essen, Germany | visiting professor | research, education |

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| 01.08.2008 - 31.10.2008 | Department of electric and electronic engineering, Toyohashi University of Technology, Tempaku, Toyohashi, 441-8580 Japan | visiting professor | Research |
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Membership in Academic Societies

| Dates (Month/Year) From to | Name of Academic Societies |
|-------------------------------|--|
| 1.04.1996 - present time | The Russian magnetic society (Since 2016 - President) |
| 1.06.2000 - present time | The magnetic council of condense matter physics branch of Russian academy of science |
| 1.01.1988 - 31.12.1996 | The Russian science and technical association |
| 01.01.2002-present time | IEEE, Magn.society (since 2013 - chairman of Russian chapter) |
| 01.01.2011 -present time | EPS |

Scientific Degree

PhD – in 1986, Moscow State University, “Interactions in the fine magnetic particle systems”

DrSci – in 2009, Moscow State University, “Magnetic properties of system with micro-sized and nano-sized non-uniformity”

Research interests:

magnetic properties of new magnetic materials (thin films, sandwiches, granular films, amorphous ribbons, nano-structured materials, amorphous wires, shape memory alloys, diluted magnetic semiconductors, magnetoreological materials and so on);

magnetic measurements;

methodology of physical experiments.

Leadership of Scientific Grants(RFBR) - 1997-1998; 2003-2005; 2011-2015

Supervisor of graduated students:

7 PhD students,

50 master students (specialist).

4 bachelor students.

Public work:

Vice-president of Council of Alumni of Faculty of Physics (2000 – present time);

Member of certifying commission of faculty of Physics (1995 – present time);

Member of scientific council of Faculty of Physics, MSU (1995 – 2005, 2013-present time);

Member of scientific council of Tver State University (2013 – present time);

Member of program committee of Russian conference on new magnetic materials of microelectronics(1992 – present time);
Chairmen of Moscow International Symposium on Magnetism (1999-present time).
Chapter chair of IEEE Russian Section Chapter, Magnetics Society (2013-present time)
Member of council of experts of Ministry of science and education (2014-present time)
President of Russian magnetic society (2016-present time)

More than 200 published papers.

Selected publications for last years:

1. L. A. Makarova, Y. A. Alekhina, and N. S. Perov, "Peculiarities of magnetic properties of magnetoactive elastomers with hard magnetic filler in crossed magnetic fields," *Journal of Magnetism and Magnetic Materials*, pp. 10–16, 2017.
2. Shatrova Nadezda, Yudin Andrey, Levina Vera, Dzidziguri Ella, Kuznetsov Denis, Perov Nikolay, and Issi Jean-Paul. Elaboration, characterization and magnetic properties of cobalt nanoparticles synthesized by ultrasonic spray pyrolysis followed by hydrogen reduction. *Materials Research Bulletin*, 86:80–87 –80–87, 2017.
3. V. Bessalova, N. Perov, and V. Rodionova, "New approaches in the design of magnetic tweezers—current magnetic tweezers," *Journal of Magnetism and Magnetic Materials*, vol. 415, pp. 66–71, 2016.
4. E.Yu. Kramarenko, A.V. Chertovich, G.V. Stepanov, A.S. Semisalova, L.A. Makarova, N.S. Perov, A.R. Khokhlov "Magnetic and viscoelastic response of elastomers with hard magnetic filler" *Smart Materials and Structures*, 24 (2015) 035002. doi:10.1088/0964-1726/24/3/035002
5. Spiridonov, V.V., Zakharov, A.N., Panova, I.G., Afanasov, M.I., Perov, N.S., Topchieva, I.N. "Self-assembling of highly substituted 2-hydroxypropyl- β -cyclodextrin in the presence of in situ-formed iron oxide nanoparticles to produce magnetically ordered water-soluble supramolecular adducts" *Colloid and Polymer Science* 293 (5) (2015) 1329-1337. DOI: 10.1007/s00396-015-3514-y
6. Valeria Rodionova, Ksenia Chichay, · Valentina Zhukova, · Nikolay Perov, · Mikhail Ipatov, · Pavel Umnov, · Vyacheslav Molokanov, · Arkady Zhukov "Tailoring of Magnetic Properties of Amorphous Ferromagnetic Microwires" *J Supercond Nov Magn* 28 (3)(2015) pp 977-981. DOI 10.1007/s10948-014-2777-8.
7. Vinnik Denis A., Zherebtsov Dmitry A., Mashkovtseva Lubov S., Sandra Nemrava, Perov Nikolai S., Semisalova Anna S., Krivtsov Igor V., Isaenko Ludmila I., Mikhailov Gennady G., Rainer Niewa "Ti-Substituted BaFe₁₂O₁₉ Crystal Growth and Characterization" *Crystal Growth and Design* 14 (11) (2014) c. 5834-5839 DOI:10.1021/cg501075c
8. Valentina Zhukova, Valeria Rodionova, Leonid Fetisov, Alexey Grunin, Alexander Goikhman, Alexandr Torcunov, Alexandr Aronin, Galina Abrosimova, Alexandr Kiselev, Nikolai Perov, Alexandr Granovsky, Tomas Ryba, Stefan Michalik, Rastislav Varga, and Arcady Zhukov "Magnetic Properties of Heusler-Type Microwires and Thin Films" *IEEE TRANSACTIONS ON MAGNETICS*, (2014) 50 (11) p. 6971815. DOI: 10.1109/TMAG.2014.2324494
9. Anna S. Semisalova, Nikolai S. Perov, Gennady V. Stepanov, Elena Yu. Kramarenko and Alexey R. Khokhlov "Strong magnetodielectric effects in magnetorheological elastomers" *Soft Matter* 9(47)(2013) 11318-11324. DOI: 10.1039/c3sm52523f
10. Orlov Yu. S., Solovyov L.A., Dudnikov V.A., Fedorov A.S., Kuzubov A. A., Kazak N.V., Voronov V.N., Vereshchagin S.N., Shishkina N. N., Perov N.S., Lamonova K.V., Babkin R.Yu, Pashkevich Yu.G., Anshits A.G., Ovchinnikov S.G. "Structural properties and high-temperature spin and electronic transitions in GdCoO₃: Experiment and theory" *PHYSICAL REVIEW B* Volume: 88 Issue: 23. 2013 Article Number: 235105 DOI: 10.1103/PhysRevB.88.235105

11. Burova, L.I., **Perov, N.S.**, Semisalova, A.S., Kulbachinskii, V.A., Kytin, V.G., Roddatis, V.V., Vasiliev, A.L., Kaul, A.R. "Effect of the nanostructure on room temperature ferromagnetism and resistivity of undoped ZnO thin films grown by chemical vapor deposition" *Thin Solid Films* 520 (14) (2012) pp. 4580–4585
12. Rodionova V; Ilyn M; Ipatov M; Zhukova V; **Perov N**; Zhukov A Spectral properties of electromotive force induced by periodic magnetization reversal of arrays of coupled magnetic glass-covered microwires *Journal of Applied Physics* 111 (7) (2012) Article Number: 07E735 DOI: 10.1063/1.3680529
13. Andrew R. Akbashev, Vladimir V. Roddatis, Alexander L. Vasiliev, Sergei Lopatin, Anna S. Semisalova, **Nikolai S. Perov**, Vadim A. Amelichev and Andrey R. Kaul "Reconstructed stacking faults in cobalt-doped hexagonal LuFeO₃ revealed by mapping of cation distribution at the atomic scale" *CrystEngComm*, 2012, 14, 5373–5376.
14. Aronzon B. A.; Rylkov V. V.; Nikolaev S. N.; Tugushev V. V.; Caprara S.; Podolskii V. V.; Lesnikov V. P.; Lashkul A.; Laiho R.; Gareev R. R.; **Perov N. S.**; Semisalova A. S. "Room-temperature ferromagnetism and anomalous Hall effect in Si_(1-x)Mn_(x) (x approximate to 0.35) alloys" *PHYSICAL REVIEW B* 84 (7) (2011) 075209.
15. A. R. Akbashev, A. S. Semisalova, **N. S. Perov**, A. R. Kaul "Weak ferromagnetism in hexagonal orthoferrites RFeO₃ (R5Lu, Er-Tb)" *APPLIED PHYSICS LETTERS* 99 (2011) 122502.
16. L. Y. Fetisov, **N. S. Perov**, Y. K. Fetisov, G. Srinivasan, V. M. Petrov "Resonance magnetoelectric interactions in an asymmetric ferromagnetic-ferroelectric layered structure" *JOURNAL OF APPLIED PHYSICS* 109 (2011) 053908.
17. Coisson M, Celegato F, Olivetti ES, Tiberto P, Vinai F, Kane SN, Gan'shina EA, Novikov AI, **Perov NS** « Thickness dependence of crystalline state in FeZrNbCuB thin films obtained by sputter deposition» *JOURNAL OF ALLOYS AND COMPOUNDS*, 509 (14)(2011) 4688-4695
18. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, **N. Perov**, L. Panina, J. Gonzalez, A. Zhukov «Magnetostatic interaction of glass-coated magnetic microwires» *J. Appl. Phys.* 108 (1) (2010) 016103.
19. I. Dubenko, A. K. Pathak, S. Stadler, N. Ali, Ya. Kovarskii, V. N. Prudnikov, **N. S. Perov**, A. B. Granovsky „Giant Hall effect in Ni-Mn-In Heusler alloys" *PHYSICAL REVIEW B* **80** (2009) 092408.
20. B. Hernando, V. M. Prida, M. L. Sanchez, J. Olivera, C. Garcia, J. D. Santos, P. Alvarez, J. L. Sánchez Ll., and **N. Perov** "Thermal Annealing Dependence of High-Frequency Magnetoimpedance in Amorphous and Nanocrystalline FeSiBCuNb Ribbons" *J. Nanosci. Nanotechnol.* 8 (6) (2008) 2873–2882
21. **N.S.Perov**, E.V. Pan'kova, G.S.Kuznetsov, V.V.Rodionov, M.Inoue "CHANGES OF MAGNETOELASTIC WAVES IN AMORPHOUS RIBBONS UNDER EXTERNAL: EFFECTS". *Journal of Magnetism and Magnetic Materials* 310(2)(P3) (2007) 2633-2635.
22. P. A. Chernavskii, G. V. Pankina, A. P. Chernavskii, N. V. Peskov, P. V. Afanas'ev, **N. S. Perov**, V. A. Tennov, and V. V. Lunin "The Kinetics of Low-Temperature Oxidation of Cobalt Nanoparticles on a Carbon Carrier" *Russian Journal of Physical Chemistry (ISSN 0036-0244)* 80(9) (2006) p.1475-1481.

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