

# Sergey Komogortsev

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3681904/sergey-komogortsev-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

730  
citations

14  
h-index

22  
g-index

96  
ext. papers

835  
ext. citations

1.4  
avg, IF

4.08  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 90 | Magnetic Properties of Three-Dimensional Metal Rods With Composition Gradients Produced by Electroless Deposition. <i>IEEE Magnetics Letters</i> , <b>2022</b> , 13, 1-5  | 1.6 | 0         |
| 89 | Manifestation of Stoichiometry Deviation in Silica-Coated Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 7510-7516  | 3.8 | 0         |
| 88 | Iron Oxide Nanoparticles for Isolating DNA from Blood Cells. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2021</b> , 85, 965-969  | 0.4 | 0         |
| 87 | Micromagnetic modeling of the polycrystalline structure effect to the hysteresis loop in ferromagnetic nanowire. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1847, 012045  | 0.3 | 1         |
| 86 | Ferromagnetic resonance in a microtube. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 183904   | 2.5 | 3         |
| 85 | MAGNETOSTRUCTURAL STUDY OF NANOSTRUCTURED AND AMORPHOUS BULK ALLOYS (Co <sub>1-x</sub> Fe <sub>x</sub> ) <sub>100</sub> Co <sub>x</sub> . <i>Journal of Structural Chemistry</i> , <b>2021</b> , 62, 802-809  | 0.9 | 0         |
| 84 | Square plate shaped magnetite nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 527, 167730  | 2.8 | 3         |
| 83 | Iron-Cobalt Coatings Produced Using an Eco-friendly Route. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2021</b> , 34, 2681-2688  | 1.5 | 1         |
| 82 | Core-shell and bi-segmented Cobalt-Nickel Nanorods Prepared by Electroless Deposition. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 1-1  | 2   | 1         |
| 81 | Magnetic hysteresis of blocked ferrihydrite nanoparticles. <i>AIP Advances</i> , <b>2021</b> , 11, 015329   | 1.5 | 1         |
| 80 | Magnetic Nanoparticles as a Strong Contributor to the Biocompatibility of Ferrogels. <i>Physics of Metals and Metallography</i> , <b>2020</b> , 121, 299-304  | 1.2 | 6         |
| 79 | Composition-driven crystal structure transformation and magnetic properties of electrodeposited Co <sub>1-x</sub> Fe <sub>x</sub> alloy nanowires. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 843, 155902                               | 5.7 | 6         |
| 78 | Features of the Ferromagnetic Resonance of Amorphous FeSiBNbCu Ribbons with Different Compositions. <i>Inorganic Materials: Applied Research</i> , <b>2020</b> , 11, 177-180  | 0.6 | 5         |
| 77 | Structure and Magnetic Properties of the FeCo <sub>1-x</sub> Films Reduced by Carbohydrates. <i>Semiconductors</i> , <b>2020</b> , 54, 1840-1842  | 0.7 | 2         |
| 76 | Soft magnetic FeCo films produced by green chemistry technique. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1582, 012077   | 0.3 | 1         |
| 75 | Crystal texture-dependent magnetic and magnetotransport properties of half-metallic Fe <sub>3</sub> O <sub>4</sub> films grown on oxidized Si substrates by reactive deposition. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152398 | 5.7 | 4         |
| 74 | Structure and magnetism in ball-milled core-shell Al <sub>2</sub> O <sub>3</sub> @Co particles. <i>Materials Today: Proceedings</i> , <b>2019</b> , 12, 159-162   | 1.4 | 0         |

|    |   |     |    |
|----|---|-----|----|
| 73 | Magnetite Nanocrystals with a High Magnetic Anisotropy Constant due to the Particle Shape. <i>Technical Physics Letters</i> , <b>2019</b> , 45, 878-881   | 0.7 | 9  |
| 72 | Fractal Dimension Effect on the Magnetization Curves of Exchange-Coupled Clusters of Magnetic Nanoparticles. <i>Journal of Experimental and Theoretical Physics</i> , <b>2019</b> , 128, 754-760  | 1   | 8  |
| 71 | Study of CoPt <sub>1-x</sub> nanoalloy formation mechanism via single-source precursors. <i>Powder Diffraction</i> , <b>2019</b> , 34, S27-S31  | 1.8 |    |
| 70 | Macro- and Nanoscale Magnetic Anisotropy of FeNi(P) Micropillars in Polycarbonate Membrane. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 911-916   | 1.5 | 2  |
| 69 | Magnetic nanoconstructions of iron oxides coated with arabinogalactan functionalized with DNA aptamer. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1399, 022026  | 0.3 | 1  |
| 68 | The magnetic dipole-dipole interaction effect on the magnetic hysteresis at zero temperature in nanoparticles randomly dispersed within a plane. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 473, 410-415  | 2.8 | 7  |
| 67 | Power-law behavior of coercivity in nanocrystalline magnetic alloys with grain-size distribution. <i>Scripta Materialia</i> , <b>2018</b> , 152, 55-58  | 5.6 | 11 |
| 66 | Variation of magnetic anisotropy and temperature-dependent FORC probing of compositionally tuned Co-Ni alloy nanowires. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 683-693   | 5.7 | 28 |
| 65 | Structural and Magnetic Characteristics of Nanogranular Co/Al <sub>2</sub> O <sub>3</sub> Single- and Multilayer Films Formed by the Solid-State Synthesis. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1425-1431   | 0.8 | 4  |
| 64 | Carbon coated nickel nanoparticles produced in high-frequency arc plasma at ambient pressure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 440, 164-166   | 2.8 | 4  |
| 63 | Law of approach to magnetic saturation in nanocrystalline and amorphous ferromagnets with improved transition behavior between power-law regimes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 440, 213-216   | 2.8 | 32 |
| 62 | Magnetic anisotropy in multilayer nanogranular films (Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> ) <sub>50</sub> (SiO <sub>2</sub> ) <sub>50</sub> /Si:H. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 440, 221-224                          | 2.8 | 8  |
| 61 | Micromagnetism in a planar system with a random magnetic anisotropy and two-dimensional magnetic correlations. <i>Journal of Experimental and Theoretical Physics</i> , <b>2017</b> , 125, 323-332  | 1   | 6  |
| 60 | Ferromagnetic resonance linewidth in powders consisting of core-shell particles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2017</b> , 81, 351-353  | 0.4 | 1  |
| 59 | Ordering and magnetic properties of nanostructured CoPt particles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2017</b> , 81, 298-300  | 0.4 |    |
| 58 | Magnetostructural investigations of bulk nanostructured (Fe <sub>100-x</sub> ) <sub>x</sub> alloys. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2017</b> , 81, 295-297   | 0.4 | 2  |
| 57 | Effect of annealing on the magnetic properties of (Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> ) <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> granular nanocomposites. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2016</b> , 80, 1332-1334 | 0.4 | 1  |
| 56 | The exchange interaction effects on magnetic properties of the nanostructured CoPt particles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 401, 236-241   | 2.8 | 7  |

|    |  |     |    |
|----|--|-----|----|
| 55 | Magnetic Anisotropy of Co-Nanostructures Embedded in Matrices with Different Pores Size and Morphology. <i>Solid State Phenomena</i> , <b>2015</b> , 233-234, 583-586  | 0.4 | 3  |
| 54 | Electrodeposited Co <sub>93.2</sub> P <sub>6.8</sub> nanowire arrays with core-shell microstructure and perpendicular magnetic anisotropy. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17E715   | 2.5 | 5  |
| 53 | Conversion of magnetic anisotropy in electrodeposited CoNi alloy nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 383, 94-99  | 2.8 | 17 |
| 52 | The Suppression of Demagnetizing Field Heterogeneity in Ferromagnetic Powders. <i>Solid State Phenomena</i> , <b>2015</b> , 233-234, 629-632   | 0.4 | 1  |
| 51 | The manifestations of the two-dimensional magnetic correlations in the nanocrystalline ribbons Fe <sub>64</sub> Co <sub>21</sub> B <sub>15</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 374, 423-426   | 2.8 | 9  |
| 50 | Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) <sub>3</sub> multilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 364, 24-33   | 2.8 | 5  |
| 49 | Magnetic anisotropy in Fe films deposited on SiO <sub>2</sub> /Si(001) and Si(001) substrates. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 351, 104-108   | 2.8 | 20 |
| 48 | Effect of Sodium Hypophosphite Content to the Deposition Rate, Structure and Magnetic Properties of Electroless Deposited Ni-P Alloy. <i>Solid State Phenomena</i> , <b>2014</b> , 215, 237-241  | 0.4 | 4  |
| 47 | Analysis of phase composition of Co-P alloy powders using magnetometric data. <i>Physics of Metals and Metallography</i> , <b>2013</b> , 114, 122-128  | 1.2 | 5  |
| 46 | Hysteresis loops of MgB <sub>2</sub> + Co composite tapes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 1341-1347   | 2.1 | 5  |
| 45 | Multilayer nanogranular films (Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> ) <sub>50</sub> (SiO <sub>2</sub> ) <sub>50</sub> /Si:H and (Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> ) <sub>50</sub> (SiO <sub>2</sub> ) <sub>50</sub> /SiO <sub>2</sub> : Magnetic properties. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17C105 | 2.5 | 18 |
| 44 | Magnetic anisotropy and order parameter in nanostructured CoPt particles. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 152404   | 3.4 | 9  |
| 43 | Spherical magnetic nanoparticles fabricated by laser target evaporation. <i>AIP Advances</i> , <b>2013</b> , 3, 052135   | 1.5 | 72 |
| 42 | Ferromagnetic Co-P Powders with Nanodiamond and Corundum Precipitates. <i>Solid State Phenomena</i> , <b>2012</b> , 190, 470-473   | 0.4 | 2  |
| 41 | Magnetization Correlations and Random Magnetic Anisotropy in Nanocrystalline Films Fe <sub>78</sub> Zr <sub>10</sub> Ni <sub>12</sub> . <i>Solid State Phenomena</i> , <b>2012</b> , 190, 486-489  | 0.4 | 4  |
| 40 | Magnetic Properties and L10 Phase Formation in CoPt Nanoparticles. <i>Solid State Phenomena</i> , <b>2012</b> , 190, 159-162   | 0.4 | 8  |
| 39 | Magnetic microstructure of amorphous, nanocrystalline, and nanophase ferromagnets. <i>Physics of Metals and Metallography</i> , <b>2011</b> , 112, 666-681   | 1.2 | 45 |
| 38 | Study of the physical nature of the soft magnetic properties of Fe-ZrN nanocrystalline films. <i>Russian Metallurgy (Metally)</i> , <b>2011</b> , 2011, 875-881  | 0.5 | 3  |

|    |  |     |    |
|----|--|-----|----|
| 37 | Experimental and Numerical Investigations of the Magnetization Curves in the Nanocomposites Consisted of Several Ferromagnetic Phases. <i>Solid State Phenomena</i> , <b>2010</b> , 168-169, 369-372   | 0.4 | 2  |
| 36 | Exchange Interaction in the Co-SiO <sub>2</sub> Nanocomposite Films. <i>Solid State Phenomena</i> , <b>2010</b> , 168-169, 265-268   | 0.4 | 2  |
| 35 | Solid-State Synthesis of Co-Sm(110) Epitaxial Films with Large Magnetocrystalline Anisotropy. <i>Solid State Phenomena</i> , <b>2010</b> , 168-169, 188-191  | 0.4 |    |
| 34 | Random Magnetic Anisotropy and Ferromagnetic Resonance in Nanocrystalline Alloy Fe <sub>73.5</sub> CuNb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> . <i>Solid State Phenomena</i> , <b>2010</b> , 168-169, 365-368   | 0.4 | 3  |
| 33 | Magnetic Properties of Carbon Nanotubes with Low Content of Fe. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2010</b> , 18, 569-573  | 1.8 | 3  |
| 32 | Study of the structure and magnetic properties of Co nanoparticles in the matrix of highly porous amorphous carbon. <i>Physics of Metals and Metallography</i> , <b>2010</b> , 109, 130-134  | 1.2 | 7  |
| 31 | Nanosized cobalt ferrite powders obtained by pyrolytic extraction. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2010</b> , 44, 778-781  | 0.9 |    |
| 30 | Ferromagnetic resonance and magnetic microstructure in nanocomposite films of Co <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> and (CoFeB) <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> . <i>Physics of the Solid State</i> , <b>2010</b> , 52, 2263-2266 | 0.8 | 14 |
| 29 | Properties of ferromagnetic resonance in Fe <sub>73.5</sub> CuNb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> nanocrystalline alloys. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 2287-2290  | 0.8 | 4  |
| 28 | Investigation of the magnetic properties and magnetic structure parameters of nanocrystalline Fe <sub>79</sub> Zr <sub>10</sub> Ni <sub>11</sub> films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2010</b> , 74, 1449-1451              | 0.4 | 5  |
| 27 | Cobalt ferrite nanoparticles in a mesoporous silicon dioxide matrix. <i>Technical Physics Letters</i> , <b>2009</b> , 35, 882-884  | 0.7 | 4  |
| 26 | Co-Cu alloys produced by mechanical alloying of powder precursors characterized by different contact surface and energy excess. <i>Physics of Metals and Metallography</i> , <b>2009</b> , 107, 478-483  | 1.2 | 2  |
| 25 | Influence of the inhomogeneity of local magnetic parameters on the curves of magnetization in an ensemble of Fe <sub>3</sub> C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , <b>2009</b> , 51, 2286-2291   | 0.8 | 11 |
| 24 | Magnetization curves of randomly oriented ferromagnetic single-domain nanoparticles with combined symmetry of magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 1123-1127   | 2.8 | 22 |
| 23 | Magnetic properties and nonmagnetic phases formation in (Fe/Si) <sub>n</sub> films. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 094703  | 2.5 | 11 |
| 22 | Arrays of carbon nanotubes aligned perpendicular to the substrate surface: Anisotropy of structure and properties. <i>Nanotechnologies in Russia</i> , <b>2008</b> , 3, 191-200  | 0.6 | 28 |
| 21 | Change in the magnetization of multilayer Fe/Si nanostructures during synthesis and subsequent heating. <i>Physics of Metals and Metallography</i> , <b>2008</b> , 106, 51-55  | 1.2 | 1  |
| 20 | Fractal magnetic microstructure in the (Co <sub>41</sub> Fe <sub>39</sub> B <sub>20</sub> ) <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> nanocomposite films. <i>JETP Letters</i> , <b>2007</b> , 86, 465-469   | 1.2 | 16 |

|    |  |     |    |
|----|--|-----|----|
| 19 | Magnetic properties of Fe <sub>3</sub> C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , <b>2007</b> , 49, 734-738   | 0.8 | 26 |
| 18 | Size effects and magnetization of (Fe/Si) <i>n</i> multilayer film nanostructures. <i>Physics of the Solid State</i> , <b>2007</b> , 49, 1470-1475   | 0.8 | 9  |
| 17 | Magnetic microstructure of nanostructured ferromagnets. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2007</b> , 71, 1620-1622  | 0.4 | 11 |
| 16 | Magnetostructural investigation of ball-milled cobalt-copper alloy. <i>Physics of Metals and Metallography</i> , <b>2006</b> , 102, S64-S66  | 1.2 |    |
| 15 | Magnetic properties of Ni <sub>x</sub> Co <sub>1-x</sub> nanoparticles in carbon nanotubes. <i>Physics of Metals and Metallography</i> , <b>2006</b> , 102, S67-S70  | 1.2 | 2  |
| 14 | Magnetization curve and magnetic correlations in a nanochain of ferromagnetic grains with random anisotropy. <i>Physics of the Solid State</i> , <b>2005</b> , 47, 495                                       | 0.8 | 13 |
| 13 | Magnetic anisotropy in the films of oriented carbon nanotubes filled with iron nanoparticles. <i>Technical Physics Letters</i> , <b>2005</b> , 31, 454-456   | 0.7 | 12 |
| 12 | Structural and magnetic characteristics of Fe/Si bilayer and multilayer films obtained by thermal deposition in ultrahigh vacuum. <i>Technical Physics Letters</i> , <b>2005</b> , 31, 947                   | 0.7 | 11 |
| 11 | Accelerated mechanical alloying of mutually insoluble metals: Co-Cu system. <i>Technical Physics Letters</i> , <b>2004</b> , 30, 60-63   | 0.7 | 8  |
| 10 | The magnetic structure of ferromagnetic filaments of a CoNi(P) alloy in a porous silicon matrix. <i>Technical Physics Letters</i> , <b>2003</b> , 29, 263-266  | 0.7 | 10 |
| 9  | Fe nanowires in carbon nanotubes as an example of a one-dimensional system of exchange-coupled ferromagnetic nanoparticles. <i>JETP Letters</i> , <b>2003</b> , 78, 236-240                                  | 1.2 | 30 |
| 8  | Study of magnetic correlations in nanostructured ferromagnets by correlation magnetometry. <i>JETP Letters</i> , <b>2003</b> , 78, 646-650   | 1.2 | 21 |
| 7  | Multilayer Co/Pd films with nanocrystalline and amorphous Co layers: Coercive force, random anisotropy, and exchange coupling of grains. <i>Technical Physics Letters</i> , <b>2002</b> , 28, 725-728        | 0.7 | 8  |
| 6  | Dimensionality of a system of exchange-coupled grains and magnetic properties of nanocrystalline and amorphous ferromagnets. <i>JETP Letters</i> , <b>2000</b> , 72, 304-307                                 | 1.2 | 20 |
| 5  | Characteristics of the magnetic microstructure of amorphous and nanocrystalline ferromagnets with a random anisotropy: Theoretical estimates and experiment. <i>JETP Letters</i> , <b>2000</b> , 72, 603-607 | 1.2 | 11 |
| 4  | Ostwald step rule in films of metastable nanocrystalline alloys Fe-C prepared by pulsed plasma vaporization. <i>JETP Letters</i> , <b>1999</b> , 70, 736-742   | 1.2 | 2  |
| 3  | Microstructure and magnetic property of Co/Cu multilayers. <i>IEEE Transactions on Magnetism</i> , <b>1999</b> , 35, 3097-3099   | 2   | 1  |
| 2  | Multiscale Magnetic Anisotropy in Amorphous Ferromagnetic Ribbon: An Example of FeCuNdSiB Alloy. <i>Solid State Phenomena</i> , <b>2003</b> , 112, 275-280   | 0.4 |    |

1 Maghemite Nanoparticles for DNA Extraction: Performance and Blocking Temperature. *Journal of Superconductivity and Novel Magnetism*,1 1.5 0