

Sergey Komogortsev

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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	Spherical magnetic nanoparticles fabricated by laser target evaporation. <i>AIP Advances</i> , 2013 , 3, 052135	1.5	72
89	Magnetic microstructure of amorphous, nanocrystalline, and nanophase ferromagnets. <i>Physics of Metals and Metallography</i> , 2011 , 112, 666-681	1.2	45
88	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> , 2017 , 440, 213-216	2.8	32
87	Fe nanowires in carbon nanotubes as an example of a one-dimensional system of exchange-coupled ferromagnetic nanoparticles. <i>JETP Letters</i> , 2003 , 78, 236-240	1.2	30
86	Variation of magnetic anisotropy and temperature-dependent FORC probing of compositionally tuned Co-Ni alloy nanowires. <i>Journal of Alloys and Compounds</i> , 2018 , 732, 683-693	5.7	28
85	Arrays of carbon nanotubes aligned perpendicular to the substrate surface: Anisotropy of structure and properties. <i>Nanotechnologies in Russia</i> , 2008 , 3, 191-200	0.6	28
84	Magnetic properties of Fe ₃ C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , 2007 , 49, 734-738	0.8	26
83	Magnetization curves of randomly oriented ferromagnetic single-domain nanoparticles with combined symmetry of magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 1123-1127	2.8	22
82	Study of magnetic correlations in nanostructured ferromagnets by correlation magnetometry. <i>JETP Letters</i> , 2003 , 78, 646-650	1.2	21
81	Magnetic anisotropy in Fe films deposited on SiO ₂ /Si(001) and Si(001) substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 351, 104-108	2.8	20
80	Dimensionality of a system of exchange-coupled grains and magnetic properties of nanocrystalline and amorphous ferromagnets. <i>JETP Letters</i> , 2000 , 72, 304-307	1.2	20
79	Multilayer nanogranular films (Co ₄₀ Fe ₄₀ B ₂₀) ₅₀ (SiO ₂) ₅₀ /Si and (Co ₄₀ Fe ₄₀ B ₂₀) ₅₀ (SiO ₂) ₅₀ /SiO ₂ : Magnetic properties. <i>Journal of Applied Physics</i> , 2013 , 113, 17C105	2.5	18
78	Conversion of magnetic anisotropy in electrodeposited Co-Ni alloy nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 383, 94-99	2.8	17
77	Fractal magnetic microstructure in the (Co ₄₁ Fe ₃₉ B ₂₀) _x (SiO ₂) _{1-x} nanocomposite films. <i>JETP Letters</i> , 2007 , 86, 465-469	1.2	16
76	Ferromagnetic resonance and magnetic microstructure in nanocomposite films of Co _x (SiO ₂) _{1-x} and (CoFeB) _x (SiO ₂) _{1-x} . <i>Physics of the Solid State</i> , 2010 , 52, 2263-2266	0.8	14
75	Magnetization curve and magnetic correlations in a nanochain of ferromagnetic grains with random anisotropy. <i>Physics of the Solid State</i> , 2005 , 47, 495	0.8	13
74	Magnetic anisotropy in the films of oriented carbon nanotubes filled with iron nanoparticles. <i>Technical Physics Letters</i> , 2005 , 31, 454-456	0.7	12

73	Power-law behavior of coercivity in nanocrystalline magnetic alloys with grain-size distribution. <i>Scripta Materialia</i> , 2018 , 152, 55-58	5.6	11
72	Influence of the inhomogeneity of local magnetic parameters on the curves of magnetization in an ensemble of Fe ₃ C ferromagnetic nanoparticles encapsulated in carbon nanotubes. <i>Physics of the Solid State</i> , 2009 , 51, 2286-2291	0.8	11
71	Magnetic microstructure of nanostructured ferromagnets. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 1620-1622	0.4	11
70	Magnetic properties and nonmagnetic phases formation in (Fe/Si) _n films. <i>Journal of Applied Physics</i> , 2008 , 104, 094703	2.5	11
69	Structural and magnetic characteristics of Fe/Si bilayer and multilayer films obtained by thermal deposition in ultrahigh vacuum. <i>Technical Physics Letters</i> , 2005 , 31, 947	0.7	11
68	Characteristics of the magnetic microstructure of amorphous and nanocrystalline ferromagnets with a random anisotropy: Theoretical estimates and experiment. <i>JETP Letters</i> , 2000 , 72, 603-607	1.2	11
67	The magnetic structure of ferromagnetic filaments of a CoNi(P) alloy in a porous silicon matrix. <i>Technical Physics Letters</i> , 2003 , 29, 263-266	0.7	10
66	Magnetite Nanocrystals with a High Magnetic Anisotropy Constant due to the Particle Shape. <i>Technical Physics Letters</i> , 2019 , 45, 878-881	0.7	9
65	The manifestations of the two-dimensional magnetic correlations in the nanocrystalline ribbons Fe ₆₄ Co ₂₁ B ₁₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 423-426	2.8	9
64	Magnetic anisotropy and order parameter in nanostructured CoPt particles. <i>Applied Physics Letters</i> , 2013 , 103, 152404	3.4	9
63	Size effects and magnetization of (Fe/Si) _n multilayer film nanostructures. <i>Physics of the Solid State</i> , 2007 , 49, 1470-1475	0.8	9
62	Magnetic anisotropy in multilayer nanogranular films (Co ₄₀ Fe ₄₀ B ₂₀) ₅₀ (SiO ₂) ₅₀ /Si:H. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 221-224	2.8	8
61	Fractal Dimension Effect on the Magnetization Curves of Exchange-Coupled Clusters of Magnetic Nanoparticles. <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 128, 754-760	1	8
60	Magnetic Properties and L10 Phase Formation in CoPt Nanoparticles. <i>Solid State Phenomena</i> , 2012 , 190, 159-162	0.4	8
59	Accelerated mechanical alloying of mutually insoluble metals: Co-Cu system. <i>Technical Physics Letters</i> , 2004 , 30, 60-63	0.7	8
58	Multilayer Co/Pd films with nanocrystalline and amorphous Co layers: Coercive force, random anisotropy, and exchange coupling of grains. <i>Technical Physics Letters</i> , 2002 , 28, 725-728	0.7	8
57	The exchange interaction effects on magnetic properties of the nanostructured CoPt particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 236-241	2.8	7
56	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> , 2010 , 109, 130-134	1.2	7

55	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> , 2019 , 473, 410-415	2.8	7
54	Magnetic Nanoparticles as a Strong Contributor to the Biocompatibility of Ferrogels. <i>Physics of Metals and Metallography</i> , 2020 , 121, 299-304	1.2	6
53	Composition-driven crystal structure transformation and magnetic properties of electrodeposited Co ₉₀ W alloy nanowires. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155902	5.7	6
52	Micromagnetism in a planar system with a random magnetic anisotropy and two-dimensional magnetic correlations. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 125, 323-332	1	6
51	Electrodeposited Co _{93.2} P _{6.8} nanowire arrays with core-shell microstructure and perpendicular magnetic anisotropy. <i>Journal of Applied Physics</i> , 2015 , 117, 17E715	2.5	5
50	Features of the Ferromagnetic Resonance of Amorphous FeSiBNbCu Ribbons with Different Compositions. <i>Inorganic Materials: Applied Research</i> , 2020 , 11, 177-180	0.6	5
49	Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) ₃ multilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 364, 24-33	2.8	5
48	Analysis of phase composition of Co-P alloy powders using magnetometric data. <i>Physics of Metals and Metallography</i> , 2013 , 114, 122-128	1.2	5
47	Hysteresis loops of MgB ₂ + Co composite tapes. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 1341-1347	2.1	5
46	Investigation of the magnetic properties and magnetic structure parameters of nanocrystalline Fe ₇₉ Zr ₁₀ Ni ₁₁ films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 1449-1451	0.4	5
45	Carbon coated nickel nanoparticles produced in high-frequency arc plasma at ambient pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 164-166	2.8	4
44	Structural and Magnetic Characteristics of Nanogranular Co/Al ₂ O ₃ Single- and Multilayer Films Formed by the Solid-State Synthesis. <i>Physics of the Solid State</i> , 2018 , 60, 1425-1431	0.8	4
43	Effect of Sodium Hypophosphite Content to the Deposition Rate, Structure and Magnetic Properties of Electroless Deposited Ni-P Alloy. <i>Solid State Phenomena</i> , 2014 , 215, 237-241	0.4	4
42	Cobalt ferrite nanoparticles in a mesoporous silicon dioxide matrix. <i>Technical Physics Letters</i> , 2009 , 35, 882-884	0.7	4
41	Magnetization Correlations and Random Magnetic Anisotropy in Nanocrystalline Films Fe ₇₈ Zr ₁₀ Ni ₁₂ . <i>Solid State Phenomena</i> , 2012 , 190, 486-489	0.4	4
40	Properties of ferromagnetic resonance in Fe _{73.5} CuNb ₃ Si _{13.5} B ₉ nanocrystalline alloys. <i>Physics of the Solid State</i> , 2010 , 52, 2287-2290	0.8	4
39	Crystal texture-dependent magnetic and magnetotransport properties of half-metallic Fe ₃ O ₄ films grown on oxidized Si substrates by reactive deposition. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152398	5.7	4
38	Magnetic Anisotropy of Co-Nanostructures Embedded in Matrices with Different Pores Size and Morphology. <i>Solid State Phenomena</i> , 2015 , 233-234, 583-586	0.4	3

37	Study of the physical nature of the soft magnetic properties of Fe-ZrN nanocrystalline films. <i>Russian Metallurgy (Metally)</i> , 2011 , 2011, 875-881	0.5	3
36	Random Magnetic Anisotropy and Ferromagnetic Resonance in Nanocrystalline Alloy Fe _{73.5} CuNb ₃ Si _{13.5} B ₉ . <i>Solid State Phenomena</i> , 2010 , 168-169, 365-368	0.4	3
35	Magnetic Properties of Carbon Nanotubes with Low Content of Fe. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010 , 18, 569-573	1.8	3
34	Ferromagnetic resonance in a microtube. <i>Journal of Applied Physics</i> , 2021 , 129, 183904	2.5	3
33	Square plate shaped magnetite nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 527, 167730	2.8	3
32	Macro- and Nanoscale Magnetic Anisotropy of FeNi(P) Micropillars in Polycarbonate Membrane. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 911-916	1.5	2
31	Magnetostructural investigations of bulk nanostructured (Fe _{100-x}) ₂ alloys. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 295-297	0.4	2
30	Experimental and Numerical Investigations of the Magnetization Curves in the Nanocomposites Consisted of Several Ferromagnetic Phases. <i>Solid State Phenomena</i> , 2010 , 168-169, 369-372	0.4	2
29	Exchange Interaction in the Co-SiO ₂ Nanocomposite Films. <i>Solid State Phenomena</i> , 2010 , 168-169, 265-268	0.4	2
28	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> , 2009 , 107, 478-483	1.2	2
27	Ferromagnetic Co-P Powders with Nanodiamond and Corundum Precipitates. <i>Solid State Phenomena</i> , 2012 , 190, 470-473	0.4	2
26	Magnetic properties of Ni _x Co _{1-x} nanoparticles in carbon nanotubes. <i>Physics of Metals and Metallography</i> , 2006 , 102, S67-S70	1.2	2
25	Ostwald step rule in films of metastable nanocrystalline alloys Fe-C prepared by pulsed plasma vaporization. <i>JETP Letters</i> , 1999 , 70, 736-742	1.2	2
24	Structure and Magnetic Properties of the FeCo Films Reduced by Carbohydrates. <i>Semiconductors</i> , 2020 , 54, 1840-1842	0.7	2
23	Effect of annealing on the magnetic properties of (Co ₄₀ Fe ₄₀ B ₂₀) _x (SiO ₂) _{1-x} granular nanocomposites. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 1332-1334	0.4	1
22	Ferromagnetic resonance linewidth in powders consisting of core-shell particles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 351-353	0.4	1
21	The Suppression of Demagnetizing Field Heterogeneity in Ferromagnetic Powders. <i>Solid State Phenomena</i> , 2015 , 233-234, 629-632	0.4	1
20	Change in the magnetization of multilayer Fe/Si nanostructures during synthesis and subsequent heating. <i>Physics of Metals and Metallography</i> , 2008 , 106, 51-55	1.2	1

19	Microstructure and magnetic property of Co/Cu multilayers. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 3097-3099	2	1
18	Soft magnetic FeCo films produced by green chemistry technique. <i>Journal of Physics: Conference Series</i> , 2020 , 1582, 012077	0.3	1
17	Micromagnetic modeling of the polycrystalline structure effect to the hysteresis loop in ferromagnetic nanowire. <i>Journal of Physics: Conference Series</i> , 2021 , 1847, 012045	0.3	1
16	Iron-Cobalt Coatings Produced Using an Eco-friendly Route. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 2681-2688	1.5	1
15	Magnetic nanoconstructions of iron oxides coated with arabinogalactan functionalized with DNA aptamer. <i>Journal of Physics: Conference Series</i> , 2019 , 1399, 022026	0.3	1
14	Core-shell and bi-segmented Cobalt-Nickel Nanorods Prepared by Electroless Deposition. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
13	Magnetic hysteresis of blocked ferrihydrite nanoparticles. <i>AIP Advances</i> , 2021 , 11, 015329	1.5	1
12	Iron Oxide Nanoparticles for Isolating DNA from Blood Cells. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 965-969	0.4	0
11	Maghemite Nanoparticles for DNA Extraction: Performance and Blocking Temperature. <i>Journal of Superconductivity and Novel Magnetism</i> , 1	1.5	0
10	Manifestation of Stoichiometry Deviation in Silica-Coated Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7510-7516	3.8	0
9	Structure and magnetism in ball-milled core-shell Al ₂ O ₃ @Co particles. <i>Materials Today: Proceedings</i> , 2019 , 12, 159-162	1.4	
8	Study of Co _x Pt _{1-x} nanoalloy formation mechanism via single-source precursors. <i>Powder Diffraction</i> , 2019 , 34, S27-S31	1.8	
7	Ordering and magnetic properties of nanostructured CoPt particles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 298-300	0.4	
6	Solid-State Synthesis of Co-Sm(110) Epitaxial Films with Large Magnetocrystalline Anisotropy. <i>Solid State Phenomena</i> , 2010 , 168-169, 188-191	0.4	
5	Nanosized cobalt ferrite powders obtained by pyrolytic extraction. <i>Theoretical Foundations of Chemical Engineering</i> , 2010 , 44, 778-781	0.9	
4	Magnetostructural investigation of ball-milled cobalt-copper alloy. <i>Physics of Metals and Metallography</i> , 2006 , 102, S64-S66	1.2	
3	Multiscale Magnetic Anisotropy in Amorphous Ferromagnetic Ribbon: An Example of FeCuNdSiB Alloy. <i>Solid State Phenomena</i> , 312, 275-280	0.4	
2	MAGNETOSTRUCTURAL STUDY OF NANOSTRUCTURED AND AMORPHOUS BULK ALLOYS (CoB) _{100-x} Cu _x . <i>Journal of Structural Chemistry</i> , 2021 , 62, 802-809	0.9	

- 1 Magnetic Properties of Three-Dimensional Metal Rods With Composition Gradients Produced by Electroless Deposition. *IEEE Magnetics Letters*, **2022**, 13, 1-5 1.6