

Sergey A Gusev

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

115 papers	1,035 citations	19 h-index	25 g-index
122 ext. papers	1,164 ext. citations	1.6 avg, IF	3.6 L-index

#	Paper	IF	Citations
115	Long-wave X-ray radiation mirrors. <i>Optics Communications</i> , 1981 , 38, 7-9	2	43
114	High-reflection Mo/Be/Si multilayers for EUV lithography. <i>Optics Letters</i> , 2017 , 42, 5070-5073	3	40
113	Antivortex state in crosslike nanomagnets. <i>Physical Review B</i> , 2010 , 81,	3.3	40
112	MFM probe control of magnetic vortex chirality in elliptical Co nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 312, 153-157	2.8	38
111	Evidence for microwave enhanced mass transport in the annealing of nanoporous alumina membranes. <i>Journal of Materials Science</i> , 2001 , 36, 131-136	4.3	37
110	Artificial dense lattice of magnetic bubbles. <i>Applied Physics Letters</i> , 2016 , 109, 042406	3.4	34
109	Considerable enhancement of the critical current in a superconducting film by a magnetized magnetic strip. <i>Physical Review B</i> , 2005 , 72,	3.3	31
108	Rectangular lattices of permalloy nanoparticles: Interplay of single-particle magnetization distribution and interparticle interaction. <i>Physical Review B</i> , 2002 , 65,	3.3	29
107	Ferromagnetic filaments fabrication in porous Si matrix (invited). <i>Journal of Applied Physics</i> , 1994 , 76, 6671-6672	2.5	29
106	Multilayered mirrors based on La/B4C(B9C) for X-ray range near anomalous dispersion of boron (8.7nm). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 603, 80-82	1.2	27
105	Optical and magneto-optical resonances in nanocorrugated ferromagnetic films. <i>Optics Letters</i> , 2011 , 36, 4197-9	3	26
104	Multilayer X-ray mirrors based on La/B4C and La/B9C. <i>Technical Physics</i> , 2010 , 55, 1168-1174	0.5	26
103	Multilayer Zr/Si filters for EUV lithography and for radiation source metrology 2008 ,		25
102	Magnetic force microscope tip-induced remagnetization of CoPt nanodisks with perpendicular anisotropy. <i>Journal of Applied Physics</i> , 2009 , 106, 053911	2.5	24
101	The microstructure and X-ray reflectivity of Mo/Si multilayers. <i>Thin Solid Films</i> , 2002 , 415, 123-132	2.2	24
100	Frustrated magnetic vortices in hexagonal lattice of magnetic nanocaps. <i>Physical Review B</i> , 2012 , 85,	3.3	22
99	Magnetic state control of ferromagnetic nanodots by magnetic force microscopy probe. <i>Journal of Applied Physics</i> , 2006 , 100, 104304	2.5	22




98	Nonreciprocal light diffraction by a lattice of magnetic vortices. <i>Physical Review B</i> , 2012 , 86,	3.3	21
97	Magnetic force microscopy of helical states in multilayer nanomagnets. <i>Journal of Applied Physics</i> , 2008 , 103, 073916	2.5	21
96	Magnetic and optical properties of nanocorrugated Co films. <i>Applied Physics Letters</i> , 2010 , 96, 122507	3.4	19
95	Arrays of magnetic wires created in phase-separating Fe-containing alloys by interference laser irradiation. <i>Journal of Applied Physics</i> , 1997 , 81, 5478-5480	2.5	18
94	Influence of barrier interlayers on the performance of Mo/Be multilayer mirrors for next-generation EUV lithography. <i>Optics Express</i> , 2018 , 26, 33718-33731	3.3	18
93	Control of the magnetic state of arrays of ferromagnetic nanoparticles with the aid of the inhomogeneous field of a magnetic-force-microscope probe. <i>Physics of Metals and Metallography</i> , 2010 , 110, 708-734	1.2	16
92	Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 309, 272-277	2.8	14
91	Surface morphology, microstructure and electrical properties of Y-Ba-Cu-O thin films. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 1642-1645	1.8	13
90	The elastic strain and composition of self-assembled GeSi islands on Si(001). <i>Thin Solid Films</i> , 2000 , 367, 171-175	2.2	13
89	Properties of Josephson junctions in the inhomogeneous magnetic field of a system of ferromagnetic particles. <i>JETP Letters</i> , 2004 , 80, 651-654	1.2	12
88	Microstructure and properties of aluminum contacts formed on GaAs(100) by low pressure chemical vapor deposition with dimethylethylamine alane source. <i>Journal of Electronic Materials</i> , 2001 , 30, 980-986	1.9	12
87	The Structure and Chemical Composition of the Cr and Fe Pyrolytic Coatings on the MWCNTsS Surface According to NEXAFS and XPS Spectroscopy. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
86	Microstructure and electrical properties of YBCO films. <i>Superconductor Science and Technology</i> , 1996 , 9, A166-A169	3.1	11
85	Macroscopic cylinders on the basis of radial-oriented multi-wall carbon nanotubes. <i>Letters on Materials</i> , 2012 , 2, 152-156	0.9	11
84	Effect of Ce(III)-Cu(II) 15-metallacrown-5 compounds on the dispersion of multi-walled carbon nanotubes in aqueous solutions: Toward surfactant-free applications. <i>Thin Solid Films</i> , 2017 , 628, 112-116 ²		9
83	Influence of annealing on the structural and optical properties of thin multilayer EUV filters containing Zr, Mo, and silicides of these metals 2009 ,		9
82	Single-crystalline GaAs, AlGaAs, and InGaAs layers grown by metalorganic VPE on porous GaAs substrates. <i>Technical Physics Letters</i> , 2000 , 26, 298-301	0.7	9
81	Study of correlation between the microstructure and phase inhomogeneities of Y-Ba-Cu-O epitaxial films and their DC and microwave properties. <i>Superconductor Science and Technology</i> , 1999 , 12, 908-911 ^{3.1}		9

80	Magnetic ordering in Fe-containing spinodally decomposing materials synthesized from laser plasma. <i>Physical Review B</i> , 1995 , 52, 10303-10314	3.3	9
79	New hybrid material based on multiwalled carbon nanotubes decorated with rhenium nanoparticles. <i>Journal of Surface Investigation</i> , 2015 , 9, 694-698	0.5	8
78	Pyrolytic deposition of nanostructured titanium carbide coatings on the surface of multiwalled carbon nanotubes. <i>Technical Physics Letters</i> , 2016 , 42, 517-519	0.7	8
77	Exposure dependence of the UV initiated optical absorption increase in polymer films with a soluble CdS precursor and its relation to the photoinduced nanoparticle growth. <i>Optical Materials Express</i> , 2018 , 8, 1603	2.6	8
76	Magnetoresistance and noncollinear structures of multilayer ferromagnetic nanoparticles. <i>JETP Letters</i> , 2011 , 94, 386-389	1.2	8
75	Commensurability effects in overlap Josephson junctions coupled with a magnetic dots array. <i>Physical Review B</i> , 2006 , 73,	3.3	8
74	Infrared lateral photoconductivity of InGaAs quantum dot heterostructures grown by MOCVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 634-635	3	8
73	Sintering of nanophase oxide ceramics by using millimeter-wave radiation. <i>Scripta Materialia</i> , 1995 , 6, 855-858		8
72	Studies of Buried Layers and Interfaces of Tungsten Carbide Coatings on the MWCNT Surface by XPS and NEXAFS Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4736	2.6	8
71	Biocompatible Non-Toxic Porous Polymeric Materials Based on Carbonate- and Phthalate-Containing Dimethacrylates. <i>ChemistrySelect</i> , 2019 , 4, 4147-4155	1.8	7
70	Multilayer thin-film filters of extreme ultraviolet and soft X-ray spectral regions. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 46-49	0.4	7
69	Synthesis of Hybrid Materials Based on Multiwalled Carbon Nanotubes Decorated with WC1 α Nanocoatings of Various Morphologies. <i>Technical Physics Letters</i> , 2019 , 45, 348-351	0.7	6
68	Influence of the microcrystalline structure on the magnetic properties of ferromagnetic films and structures on their base. <i>Physics of the Solid State</i> , 2013 , 55, 481-485	0.8	6
67	Chemically amplified resists for high-resolution lithography. <i>Russian Microelectronics</i> , 2013 , 42, 165-175	0.5	6
66	Surface modification of silicon plate by hydrothermal treatment with a copper/rhenium metallamacrocyclic compound. <i>Mendeleev Communications</i> , 2017 , 27, 402-404	1.9	6
65	A nanomechanical system with piezoelectric actuation of a GaAs microbeam. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 095006	2	6
64	Possibility of observing chiral-symmetry effects in ferromagnetic nanoparticles. <i>Physics of the Solid State</i> , 2006 , 48, 1902-1905	0.8	6
63	Y-Ba-Cu-O thin films composition formation during magnetron sputtering. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 2371-2374	1.8	6

62	Direct observation of topological Hall effect in Co/Pt nanostructured films. <i>Physical Review B</i> , 2021 , 103,	3.3	6
61	The Gas-Phase Synthesis of a New Functional Hybrid Material on the Basis of Multiwalled Carbon Nanotubes Decorated with Faceted Aluminum Nanocrystals. <i>Technical Physics Letters</i> , 2018 , 44, 865-868 ^{0.7}	0.7	6
60	X-ray and synchrotron investigations of heterogeneous systems based on multiwalled carbon nanotubes. <i>Physics of the Solid State</i> , 2015 , 57, 197-204	0.8	5
59	Hydrogen reduction of 98MoF6 in RF discharge. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 309, 833	1.5	5
58	MOCVD modification of the surface of multiwalled carbon nanotubes to impart to them necessary physicochemical properties. <i>Journal of Surface Investigation</i> , 2009 , 3, 554-558	0.5	5
57	Magnetization reversal of elliptic Co/Si/Co nanodisks in the field of a magnetic-force microscope probe. <i>Physics of the Solid State</i> , 2010 , 52, 2297-2302	0.8	5
56	Magnetic Force Microscopy of Low-Coercivity Ferromagnetic Nanodiscs. <i>IEEE Transactions on Magnetism</i> , 2008 , 44, 2296-2298	2	5
55	Synthesis of catalyst based on sol microspheres coated with pyrolytic tungsten and study of its influence on production of metallic germanium. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 1797-1805 ^{0.8}	0.8	5
54	Creation of Localized NV Center Ensembles in CVD Diamond by Electron Beam Irradiation. <i>Technical Physics Letters</i> , 2019 , 45, 281-284	0.7	4
53	Synchrotron, X-Ray, and Electron Microscopic Studies of Catalyst Systems Based on Multiwalled Carbon Nanotubes Modified by Copper Nanoparticles. <i>Physics of the Solid State</i> , 2020 , 62, 214-222	0.8	4
52	On a silicon-based photonic-crystal cavity for the near-IR region: Numerical simulation and formation technology. <i>Semiconductors</i> , 2016 , 50, 1112-1116	0.7	4
51	Ordered Arrays of Ge(Si) Quantum Dots Incorporated into Two-Dimensional Photonic Crystals. <i>Semiconductors</i> , 2019 , 53, 1329-1333	0.7	4
50	MEMS Tunneling Sensor Without the Feedback Loop. <i>IEEE Sensors Journal</i> , 2014 , 14, 1831-1835	4	4
49	NEXAFS Study of the Composite Materials MWCNTsPyrolytic Metals by Synchrotron Radiation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015 , 23, 17-19	1.8	4
48	A method for obtaining inverted images. <i>Instruments and Experimental Techniques</i> , 2014 , 57, 620-621	0.5	4
47	Collective effects accompanying magnetization of two-dimensional lattices of nanosize magnetic particles. <i>JETP Letters</i> , 1998 , 68, 509-513	1.2	4
46	Effect of ferromagnetic nanoparticles on the transport properties of a GaMnAs microbridge. <i>Applied Physics Letters</i> , 2007 , 91, 062513	3.4	4
45	Luminescence of Spatially Ordered Self-Assembled Solitary Ge(Si) Nanoislands and their Groups Incorporated into Photonic Crystals. <i>Semiconductors</i> , 2020 , 54, 853-859	0.7	4

44	Polynuclear Aminohydroxamate Metallamacrocyclic Cu(II)-Ce(III) Complexes: A Facile Route to Intricate Nanostructures of Copper and Cerium Oxides. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1002-1010	2.3	4
43	Influence of the chemical structure of (co)polymer resists on their sensitivity to radiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 159-162	0.4	3
42	Properties of Josephson junctions in the nonuniform field of ferromagnetic particles. <i>JETP Letters</i> , 2012 , 95, 104-113	1.2	3
41	Deposition of nanocrystalline nonstoichiometric chromium oxide coatings on the surface of multiwalled carbon nanotubes by chromium acetylacetonate vapor pyrolysis. <i>Technical Physics Letters</i> , 2017 , 43, 396-398	0.7	3
40	Growth and formation of the microstructure of YBCO films deposited by magnetron sputtering on fianite substrates. <i>Technical Physics</i> , 2014 , 59, 1487-1491	0.5	3
39	Reflective mask for projection lithography operating at a wavelength of 13.5 nm. <i>Journal of Surface Investigation</i> , 2012 , 6, 568-573	0.5	3
38	Magnetization curves for two-dimensional rectangular lattices of permalloy nanoparticles: experimental investigation and numerical simulation. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 683-689	1.8	3
37	Elastic strain and composition of self-assembled GeSi nanoislands on Si(001). <i>Semiconductors</i> , 2000 , 34, 6-10	0.7	3
36	Porous Polymer Scaffolds based on Cross-Linked Poly-EGDMA and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000402	5.5	3
35	The modification of the structure of multilayer Co/Pt films by the irradiation with a focused helium ion beam 2016 ,		3
34	Investigation of High-Density Nitrogen Vacancy Center Ensembles Created in Electron-Irradiated and Vacuum-Annealed Delta-Doped Layers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000550	2.5	3
33	In-situ monitoring of the evolution of the optical properties for UV LED irradiated polymer-based photo-induced nanocomposites. <i>Applied Surface Science</i> , 2019 , 486, 376-382	6.7	2
32	Thermal stability of a freestanding EUV filter under long-term vacuum annealing at 700–1000°C. <i>Journal of Surface Investigation</i> , 2012 , 6, 482-486	0.5	2
31	Freestanding multilayer films for application as phase retarders and spectral purity filters in the soft x-ray and EUV ranges 2011 ,		2
30	Effect of thermal annealing on the magnetic properties of thin films of Co-Pd alloys. <i>Technical Physics</i> , 1998 , 43, 407-411	0.5	2
29	Porous gallium arsenide with arsenic clusters. <i>Technical Physics</i> , 2000 , 45, 650-652	0.5	2
28	Investigation of the thermo stability of aluminum thin-film filters with protective MoSi cap layers. <i>Applied Optics</i> , 2019 , 58, 21-28	1.7	2
27	Lorentz transmission electron microscopy of ferromagnetic nanodisks 2019 ,		2

26	Synthesis of Hybrid Materials Based on Iron Nanoparticle-Decorated Multiwalled Carbon Nanotubes. <i>Inorganic Materials</i> , 2018 , 54, 233-236	0.9	1
25	New Hybrid Material Based on Multiwalled Carbon Nanotubes Decorated by Rhenium-Tungsten Nanodendrites. <i>Journal of Surface Investigation</i> , 2018 , 12, 682-687	0.5	1
24	A phase-contrast scheme with a Zernicke photothermal cell for visualization of ultrasonic waves. <i>Instruments and Experimental Techniques</i> , 2012 , 55, 594-595	0.5	1
23	Comparative analysis of morphology and optical properties of GaN layers on sapphire. <i>Journal of Surface Investigation</i> , 2009 , 3, 718-720	0.5	1
22	Magnetization controlled effects in overlap Josephson junctions coupled with submicron magnetic dots. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012233	0.3	1
21	The structure of fullerene films and their metallocene doping. <i>Russian Chemical Bulletin</i> , 1994 , 43, 1305-1309	1	
20	Radiative Properties of Up-Conversion Coatings Formed on the Basis of Erbium-Doped Barium Titanate Xerogels. <i>Semiconductors</i> , 1	0.7	1
19	Study of composite MWCNT/pyrolytic Cr interface by NEXAFS spectroscopy. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012038	0.3	1
18	Control over the Magnetic Properties of Co/Pt-based Multilayered Periodical Structures. <i>Technical Physics</i> , 2019 , 64, 1584-1589	0.5	1
17	A Comparative Analysis of Catalysts for the Preparation of Germanium through Hydrogen Reduction of Germanium Tetrachloride. <i>Inorganic Materials</i> , 2018 , 54, 971-976	0.9	1
16	Resonant Enhancement of the Transverse Magneto-Optical Effect in Opal/Cobalt/Silver Plasmonic Heterostructures. <i>JETP Letters</i> , 2021 , 114, 456-462	1.2	0
15	Self-visualization of transparent microscopic objects in optical glasses under the conditions of the thermal self-action of an illuminating laser beam. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017 , 122, 499-503	0.7	
14	Studying of the Interlayer Interaction in Magnetic Multilayers (FM/I/FM) Measuring the FMR Peak Asymmetry. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	
13	Study of objects visualization and image inversion by the phase-contrast method with linear and nonlinear filters. <i>Journal of Physics: Conference Series</i> , 2016 , 737, 012067	0.3	
12	Tunnel magnetoresistance of bilayer ferromagnetic nanoparticles with magnetostatic interlayer interaction. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 183-185	0.4	
11	Self-Inversion of the Image of a Small-Scale Opaque Object in the Process of Focusing of the Illuminating Beam in an Absorbing Medium. <i>Radiophysics and Quantum Electronics</i> , 2017 , 59, 833-839	0.7	
10	Preparing surfaces for the analysis of magnetic structures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 28-32	0.4	
9	Effect of radiation on creep of microplastic made from high-strength aramid fibres. <i>Fibre Chemistry</i> , 2009 , 41, 56-59	0.6	

8	Problems of implementing SEMPA in experiments. <i>Journal of Surface Investigation</i> , 2010 , 4, 582-587	0.5
7	Characterization of GaAs/ InxGa1-x As quantum-dot heterostructures by electrical and optical methods. <i>Semiconductors</i> , 1998 , 32, 99-104	0.7
6	Influence of working gas pressure on the properties of thin films of high-temperature superconductors obtained by magnetron sputtering. <i>Technical Physics Letters</i> , 1998 , 24, 159-161	0.7
5	Transitions between the states with uniform and vortex distributions of magnetization in ferromagnetic nanoparticles under the action of an inhomogeneous magnetic field. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 48-51	0.4
4	A study of the properties of the structures with Al nanoclusters incorporated into the GaAs matrix. <i>Semiconductors</i> , 2005 , 39, 82	0.7
3	Normal-incidence multilayer mirrors for the 120-450 nm wavelength region. <i>Journal of X-Ray Science and Technology</i> , 1990 , 2, 241-8	2.1
2	Effect of Si diffusion on growth of GeSi self-assembled islands. <i>Springer Proceedings in Physics</i> , 2001 , 377-378	0.2
1	   <i>Poverkhnost Rentgenovskie Sinkhronnye i Nezhivonnye issledovaniya</i> , 2018 , 54-59	0