

# Sergey A Gusev

## List of Publications by Year in Descending Order

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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	Resonant Enhancement of the Transverse Magneto-Optical Effect in Opal/Cobalt/Silver Plasmonic Heterostructures. <i>JETP Letters</i> , <b>2021</b> , 114, 456-462	1.2	0
114	Porous Polymer Scaffolds based on Cross-Linked Poly-EGDMA and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2000402	5.5	3
113	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> , <b>2021</b> , 15, 2000550	2.5	3
112	Direct observation of topological Hall effect in Co/Pt nanostructured films. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	6
111	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> , <b>2020</b> , 10,	5.4	11
110	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> , <b>2020</b> , 62, 214-222	0.8	4
109	Luminescence of Spatially Ordered Self-Assembled Solitary Ge(Si) Nanoislands and their Groups Incorporated into Photonic Crystals. <i>Semiconductors</i> , <b>2020</b> , 54, 853-859	0.7	4
108	Studies of Buried Layers and Interfaces of Tungsten Carbide Coatings on the MWCNT Surface by XPS and NEXAFS Spectroscopy. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4736	2.6	8
107	Synthesis of Hybrid Materials Based on Multiwalled Carbon Nanotubes Decorated with WC1 $\chi$ Nanocoatings of Various Morphologies. <i>Technical Physics Letters</i> , <b>2019</b> , 45, 348-351	0.7	6
106	Creation of Localized NV Center Ensembles in CVD Diamond by Electron Beam Irradiation. <i>Technical Physics Letters</i> , <b>2019</b> , 45, 281-284	0.7	4
105	In-situ monitoring of the evolution of the optical properties for UV LED irradiated polymer-based photo-induced nanocomposites. <i>Applied Surface Science</i> , <b>2019</b> , 486, 376-382	6.7	2
104	Studying of the Interlayer Interaction in Magnetic Multilayers (FM/I/FM) Measuring the FMR Peak Asymmetry. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-6	2	
103	Biocompatible Non-Toxic Porous Polymeric Materials Based on Carbonate- and Phthalate-Containing Dimethacrylates. <i>ChemistrySelect</i> , <b>2019</b> , 4, 4147-4155	1.8	7
102	Ordered Arrays of Ge(Si) Quantum Dots Incorporated into Two-Dimensional Photonic Crystals. <i>Semiconductors</i> , <b>2019</b> , 53, 1329-1333	0.7	4
101	Investigation of the thermo stability of aluminum thin-film filters with protective MoSi cap layers. <i>Applied Optics</i> , <b>2019</b> , 58, 21-28	1.7	2
100	Lorentz transmission electron microscopy of ferromagnetic nanodisks <b>2019</b> ,		2
99	Control over the Magnetic Properties of Co/Pt-based Multilayered Periodical Structures. <i>Technical Physics</i> , <b>2019</b> , 64, 1584-1589	0.5	1

98	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> , <b>2019</b> , 2019, 1002-1010	2.3	4
97	Synthesis of Hybrid Materials Based on Iron Nanoparticle-Decorated Multiwalled Carbon Nanotubes. <i>Inorganic Materials</i> , <b>2018</b> , 54, 233-236	0.9	1
96	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> , <b>2018</b> , 8, 1603	2.6	8
95	New Hybrid Material Based on Multiwalled Carbon Nanotubes Decorated by Rhenium-Tungsten Nanodendrites. <i>Journal of Surface Investigation</i> , <b>2018</b> , 12, 682-687	0.5	1
94	Influence of barrier interlayers on the performance of Mo/Be multilayer mirrors for next-generation EUV lithography. <i>Optics Express</i> , <b>2018</b> , 26, 33718-33731	3.3	18
93	 <i>Poverkhnost Rentgenovskie Struktury i Materialy</i> , <b>2018</b> , 51-58	0	
92	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> , <b>2018</b> , 44, 865-868	0.7	6
91	A Comparative Analysis of Catalysts for the Preparation of Germanium through Hydrogen Reduction of Germanium Tetrachloride. <i>Inorganic Materials</i> , <b>2018</b> , 54, 971-976	0.9	1
90	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> , <b>2017</b> , 122, 499-503	0.7	
89	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> , <b>2017</b> , 628, 112-116	2.2	9
88	Surface modification of silicon plate by hydrothermal treatment with a copper/cerium metallamacrocyclic compound. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 402-404	1.9	6
87	Deposition of nanocrystalline nonstoichiometric chromium oxide coatings on the surface of multiwalled carbon nanotubes by chromium acetylacetonate vapor pyrolysis. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 396-398	0.7	3
86	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> , <b>2017</b> , 59, 833-839	0.7	
85	High-reflection Mo/Be/Si multilayers for EUV lithography. <i>Optics Letters</i> , <b>2017</b> , 42, 5070-5073	3	40
84	On a silicon-based photonic-crystal cavity for the near-IR region: Numerical simulation and formation technology. <i>Semiconductors</i> , <b>2016</b> , 50, 1112-1116	0.7	4
83	Study of objects visualization and image inversion by the phase-contrast method with linear and nonlinear filters. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 737, 012067	0.3	
82	Pyrolytic deposition of nanostructured titanium carbide coatings on the surface of multiwalled carbon nanotubes. <i>Technical Physics Letters</i> , <b>2016</b> , 42, 517-519	0.7	8
81	Hydrogen reduction of $98\text{MoF}_6$ in RF discharge. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2016</b> , 309, 833	1.5	5

80	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> , <b>2016</b> , 89, 1797-1805	0.8	5
79	Study of composite MWCNT/pyrolytic Cr interface by NEXAFS spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 741, 012038	0.3	1
78	The modification of the structure of multilayer Co/Pt films by the irradiation with a focused helium ion beam <b>2016</b> ,		3
77	Artificial dense lattice of magnetic bubbles. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 042406	3.4	34
76	X-ray and synchrotron investigations of heterogeneous systems based on multiwalled carbon nanotubes. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 197-204	0.8	5
75	New hybrid material based on multiwalled carbon nanotubes decorated with rhenium nanoparticles. <i>Journal of Surface Investigation</i> , <b>2015</b> , 9, 694-698	0.5	8
74	NEXAFS Study of the Composite Materials MWCNTs/Pyrolytic Metals by Synchrotron Radiation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2015</b> , 23, 17-19	1.8	4
73	MEMS Tunneling Sensor Without the Feedback Loop. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 1831-1835	4	4
72	A method for obtaining inverted images. <i>Instruments and Experimental Techniques</i> , <b>2014</b> , 57, 620-621	0.5	4
71	Growth and formation of the microstructure of YBCO films deposited by magnetron sputtering on fianite substrates. <i>Technical Physics</i> , <b>2014</b> , 59, 1487-1491	0.5	3
70	Influence of the microcrystalline structure on the magnetic properties of ferromagnetic films and structures on their base. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 481-485	0.8	6
69	Chemically amplified resists for high-resolution lithography. <i>Russian Microelectronics</i> , <b>2013</b> , 42, 165-175	0.5	6
68	Influence of the chemical structure of (co)polymer resists on their sensitivity to radiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2012</b> , 76, 159-162	0.4	3
67	Tunnel magnetoresistance of bilayer ferromagnetic nanoparticles with magnetostatic interlayer interaction. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2012</b> , 76, 183-185	0.4	
66	Properties of Josephson junctions in the nonuniform field of ferromagnetic particles. <i>JETP Letters</i> , <b>2012</b> , 95, 104-113	1.2	3
65	Thermal stability of a freestanding EUV filter under long-term vacuum annealing at 700-1000°C. <i>Journal of Surface Investigation</i> , <b>2012</b> , 6, 482-486	0.5	2
64	Frustrated magnetic vortices in hexagonal lattice of magnetic nanocaps. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	22
63	A phase-contrast scheme with a Zernicke photothermal cell for visualization of ultrasonic waves. <i>Instruments and Experimental Techniques</i> , <b>2012</b> , 55, 594-595	0.5	1

62	Reflective mask for projection lithography operating at a wavelength of 13.5 nm. <i>Journal of Surface Investigation</i> , <b>2012</b> , 6, 568-573	0.5	3
61	Nonreciprocal light diffraction by a lattice of magnetic vortices. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	21
60	Macroscopic cylinders on the basis of radial-oriented multi-wall carbon nanotubes. <i>Letters on Materials</i> , <b>2012</b> , 2, 152-156	0.9	11
59	Optical and magneto-optical resonances in nanocorrugated ferromagnetic films. <i>Optics Letters</i> , <b>2011</b> , 36, 4197-9	3	26
58	Freestanding multilayer films for application as phase retarders and spectral purity filters in the soft x-ray and EUV ranges <b>2011</b> ,		2
57	Magnetoresistance and noncollinear structures of multilayer ferromagnetic nanoparticles. <i>JETP Letters</i> , <b>2011</b> , 94, 386-389	1.2	8
56	Preparing surfaces for the analysis of magnetic structures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2011</b> , 75, 28-32	0.4	
55	Magnetic and optical properties of nanocorrugated Co films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 122507	3.4	19
54	Antivortex state in crosslike nanomagnets. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	40
53	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> , <b>2010</b> , 110, 708-734	1.2	16
52	Problems of implementing SEMPA in experiments. <i>Journal of Surface Investigation</i> , <b>2010</b> , 4, 582-587	0.5	
51	Magnetization reversal of elliptic Co/Si/Co nanodisks in the field of a magnetic-force microscope probe. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 2297-2302	0.8	5
50	Multilayer X-ray mirrors based on La/B4C and La/B9C. <i>Technical Physics</i> , <b>2010</b> , 55, 1168-1174	0.5	26
49	Multilayer thin-film filters of extreme ultraviolet and soft X-ray spectral regions. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2010</b> , 74, 46-49	0.4	7
48	Magnetic force microscope tip-induced remagnetization of CoPt nanodisks with perpendicular anisotropy. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053911	2.5	24
47	Influence of annealing on the structural and optical properties of thin multilayer EUV filters containing Zr, Mo, and silicides of these metals <b>2009</b> ,		9
46	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> , <b>2009</b> , 603, 80-82	1.2	27
45	Effect of radiation on creep of microplastic made from high-strength aramid fibres. <i>Fibre Chemistry</i> , <b>2009</b> , 41, 56-59	0.6	

44	MOCVD modification of the surface of multiwalled carbon nanotubes to impart to them necessary physicochemical properties. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 554-558	0.5	5
43	Comparative analysis of morphology and optical properties of GaN layers on sapphire. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 718-720	0.5	1
42	A nanomechanical system with piezoelectric actuation of a GaAs microbeam. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 095006	2	6
41	Magnetic force microscopy of helical states in multilayer nanomagnets. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 073916	2.5	21
40	Multilayer Zr/Si filters for EUV lithography and for radiation source metrology <b>2008</b> ,		25
39	Magnetization controlled effects in overlap Josephson junctions coupled with submicron magnetic dots. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 97, 012233	0.3	1
38	Magnetic Force Microscopy of Low-Coercivity Ferromagnetic Nanodiscs. <i>IEEE Transactions on Magnetism</i> , <b>2008</b> , 44, 2296-2298	2	5
37	Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 309, 272-277	2.8	14
36	MFM probe control of magnetic vortex chirality in elliptical Co nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 312, 153-157	2.8	38
35	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> , <b>2007</b> , 71, 48-51	0.4	
34	Effect of ferromagnetic nanoparticles on the transport properties of a GaMnAs microbridge. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 062513	3.4	4
33	Magnetic state control of ferromagnetic nanodots by magnetic force microscopy probe. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 104304	2.5	22
32	Commensurability effects in overlap Josephson junctions coupled with a magnetic dots array. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	8
31	Possibility of observing chiral-symmetry effects in ferromagnetic nanoparticles. <i>Physics of the Solid State</i> , <b>2006</b> , 48, 1902-1905	0.8	6
30	A study of the properties of the structures with Al nanoclusters incorporated into the GaAs matrix. <i>Semiconductors</i> , <b>2005</b> , 39, 82	0.7	
29	Considerable enhancement of the critical current in a superconducting film by a magnetized magnetic strip. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	31
28	Properties of Josephson junctions in the inhomogeneous magnetic field of a system of ferromagnetic particles. <i>JETP Letters</i> , <b>2004</b> , 80, 651-654	1.2	12
27	Infrared lateral photoconductivity of InGaAs quantum dot heterostructures grown by MOCVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 634-635	3	8

26	The microstructure and X-ray reflectivity of Mo/Si multilayers. <i>Thin Solid Films</i> , <b>2002</b> , 415, 123-132	2.2	24
25	Rectangular lattices of permalloy nanoparticles: Interplay of single-particle magnetization distribution and interparticle interaction. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	29
24	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> , <b>2001</b> , 30, 980-986	1.9	12
23	Evidence for microwave enhanced mass transport in the annealing of nanoporous alumina membranes. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 131-136	4.3	37
22	Magnetization curves for two-dimensional rectangular lattices of permalloy nanoparticles: experimental investigation and numerical simulation. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 683-689	1.8	3
21	Effect of Si diffusion on growth of GeSi self-assembled islands. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 377-378	0.2	
20	The elastic strain and composition of self-assembled GeSi islands on Si(001). <i>Thin Solid Films</i> , <b>2000</b> , 367, 171-175	2.2	13
19	Elastic strain and composition of self-assembled GeSi nanoislands on Si(001). <i>Semiconductors</i> , <b>2000</b> , 34, 6-10	0.7	3
18	Porous gallium arsenide with arsenic clusters. <i>Technical Physics</i> , <b>2000</b> , 45, 650-652	0.5	2
17	Single-crystalline GaAs, AlGaAs, and InGaAs layers grown by metalorganic VPE on porous GaAs substrates. <i>Technical Physics Letters</i> , <b>2000</b> , 26, 298-301	0.7	9
16	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> , <b>1999</b> , 12, 908-911	3.1	9
15	Y-Ba-Cu-O thin films composition formation during magnetron sputtering. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 2371-2374	1.8	6
14	Characterization of GaAs/ InxGa1-x As quantum-dot heterostructures by electrical and optical methods. <i>Semiconductors</i> , <b>1998</b> , 32, 99-104	0.7	
13	Effect of thermal annealing on the magnetic properties of thin films of Co-Pd alloys. <i>Technical Physics</i> , <b>1998</b> , 43, 407-411	0.5	2
12	Influence of working gas pressure on the properties of thin films of high-temperature superconductors obtained by magnetron sputtering. <i>Technical Physics Letters</i> , <b>1998</b> , 24, 159-161	0.7	
11	Collective effects accompanying magnetization of two-dimensional lattices of nanosize magnetic particles. <i>JETP Letters</i> , <b>1998</b> , 68, 509-513	1.2	4
10	Surface morphology, microstructure and electrical properties of Y-Ba-Cu-O thin films. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1997</b> , 7, 1642-1645	1.8	13
9	Arrays of magnetic wires created in phase-separating Fe-containing alloys by interference laser irradiation. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 5478-5480	2.5	18



8	Microstructure and electrical properties of YBCO films. <i>Superconductor Science and Technology</i> , <b>1996</b> , 9, A166-A169	3.1	11
7	Magnetic ordering in Fe-containing spinodally decomposing materials synthesized from laser plasma. <i>Physical Review B</i> , <b>1995</b> , 52, 10303-10314	3.3	9
6	Sintering of nanophase oxide ceramics by using millimeter-wave radiation. <i>Scripta Materialia</i> , <b>1995</b> , 6, 855-858		8
5	Ferromagnetic filaments fabrication in porous Si matrix (invited). <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 6671-6672	2.5	29
4	The structure of fullerene films and their metallocene doping. <i>Russian Chemical Bulletin</i> , <b>1994</b> , 43, 1305-1309		1
3	Normal-incidence multilayer mirrors for the 120-450 nm wavelength region. <i>Journal of X-Ray Science and Technology</i> , <b>1990</b> , 2, 241-8	2.1	
2	Long-wave X-ray radiation mirrors. <i>Optics Communications</i> , <b>1981</b> , 38, 7-9	2	43
1	Radiative Properties of Up-Conversion Coatings Formed on the Basis of Erbium-Doped Barium Titanate Xerogels. <i>Semiconductors</i> , 1	0.7	1