

Victor L Mironov

List of Publications by Year in descending order

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91
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91
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574
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#	ARTICLE	IF	CITATIONS
1	Octonic representation of electromagnetic field equations. Journal of Mathematical Physics, 2009, 50, 012901.	0.5	55
2	Antivortex state in crosslike nanomagnets. Physical Review B, 2010, 81, .	1.1	46
3	MFM probe control of magnetic vortex chirality in elliptical Co nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 312, 153-157.	1.0	44
4	Magnetic force microscope tip-induced remagnetization of CoPt nanodisks with perpendicular anisotropy. Journal of Applied Physics, 2009, 106, 053911.	1.1	31
5	Magnetic state control of ferromagnetic nanodots by magnetic force microscopy probe. Journal of Applied Physics, 2006, 100, 104304.	1.1	28
6	OCTONIC FIRST-ORDER EQUATIONS OF RELATIVISTIC QUANTUM MECHANICS. International Journal of Modern Physics A, 2009, 24, 4157-4167.	0.5	25
7	Magnetic force microscopy of helical states in multilayer nanomagnets. Journal of Applied Physics, 2008, 103, 073916.	1.1	24
8	Field-controlled domain wall pinning-depinning effects in a ferromagnetic nanowire-nanoislands system. Physical Review B, 2012, 85, .	1.1	23
9	Octonic second-order equations of relativistic quantum mechanics. Journal of Mathematical Physics, 2009, 50, 012302.	0.5	21
10	Sedeonic Equations of Massive Fields. International Journal of Theoretical Physics, 2015, 54, 153-168.	0.5	19
11	Ferromagnetic resonance in submicron permalloy stripes. Journal of Magnetism and Magnetic Materials, 2017, 424, 118-121.	1.0	18
12	Reformulation of Relativistic Quantum Mechanics Equations with Non-Commutative Sedeons. Applied Mathematics, 2013, 04, 53-60.	0.1	18
13	SEDEONIC GENERALIZATION OF RELATIVISTIC QUANTUM MECHANICS. International Journal of Modern Physics A, 2009, 24, 6237-6254.	0.5	17
14	Control of the magnetic state of arrays of ferromagnetic nanoparticles with the aid of the inhomogeneous field of a magnetic-force-microscope probe. Physics of Metals and Metallography, 2010, 110, 708-734.	0.3	17
15	Interlayer interaction in multilayer [Co/Pt]n/Pt/Co structures. Journal of Applied Physics, 2016, 120, .	1.1	17
16	Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. Journal of Magnetism and Magnetic Materials, 2007, 309, 272-277.	1.0	16
17	Comparative x-ray reflectometry and atomic force microscopy of surfaces with non-Gaussian roughness. Journal of Applied Physics, 2008, 104, .	1.1	15
18	Skyrmion states in multilayer exchange coupled ferromagnetic nanostructures with distinct anisotropy directions. Journal of Magnetism and Magnetic Materials, 2015, 393, 452-456.	1.0	15

#	ARTICLE	IF	CITATIONS
19	Sedeonic Equations of Gravitoelectromagnetism. Journal of Modern Physics, 2014, 05, 917-927.	0.3	13
20	Magnetic Force Microscope Contrast Simulation for Low-Coercive Ferromagnetic and Superparamagnetic Nanoparticles in an External Magnetic Field. IEEE Transactions on Magnetics, 2007, 43, 3961-3963.	1.2	12
21	Controlled growth of Co nanofilms on Si(100) by ion-beam deposition. Inorganic Materials, 2011, 47, 869-875.	0.2	12
22	Magnetic Force Microscopy of Nanostructured Co/Pt Multilayer Films with Perpendicular Magnetization. Materials, 2017, 10, 1034.	1.3	11
23	Artificial Dense Lattices of Magnetic Skyrmions. Materials, 2020, 13, 99.	1.3	11
24	Magnetoresistance and noncollinear structures of multilayer ferromagnetic nanoparticles. JETP Letters, 2011, 94, 386-389.	0.4	10
25	Study of correlation between the microstructure and phase inhomogeneities of Y-Ba-Cu-O epitaxial films and their DC and microwave properties. Superconductor Science and Technology, 1999, 12, 908-911.	1.8	9
26	Gauge Invariance of Sedeonic Equations for Massive and Massless Fields. International Journal of Theoretical Physics, 2016, 55, 3105-3119.	0.5	9
27	Ferromagnetic resonance force microscopy of individual domain wall. Applied Physics Letters, 2018, 113, 122407.	1.5	9
28	Growth of Sphagnum is strongly rhythmic: contribution of the seasonal, circalunar and third components. Physiologia Plantarum, 2020, 168, 765-776.	2.6	9
29	Generalized sedeonic equations of hydrodynamics. European Physical Journal Plus, 2020, 135, 1.	1.2	9
30	Magnetic states and ferromagnetic resonance in geometrically frustrated arrays of multilayer ferromagnetic nanoparticles ordered on triangular lattices. Journal of Applied Physics, 2014, 115, .	1.1	8
31	Sedeonic Field Equations for Dyons. Advances in Applied Clifford Algebras, 2018, 28, 1.	0.5	8
32	Possibility of observing chiral-symmetry effects in ferromagnetic nanoparticles. Physics of the Solid State, 2006, 48, 1902-1905.	0.2	7
33	Sedeonic Equations in Field Theory. Advances in Applied Clifford Algebras, 2020, 30, 1.	0.5	7
34	Self-consistent hydrodynamic two-fluid model of vortex plasma. Physics of Fluids, 2021, 33, 037116.	1.6	7
35	Optimization of a data storage system based on the array of ferromagnetic particles and magnetic force microscope. Journal of Surface Investigation, 2009, 3, 840-845.	0.1	6
36	Domain wall pinning in a ferromagnetic nanowire by stray fields of nanoparticles. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 16-20.	0.1	6

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37	Domain wall pinning controlled by the magnetic field of four nanoparticles in a ferromagnetic nanowire. <i>Physics of the Solid State</i> , 2016, 58, 2223-2227.	0.2	6
38	Sedeonic equations of ideal fluid. <i>Journal of Mathematical Physics</i> , 2017, 58, 083101.	0.5	6
39	A Magnetic Resonance Force Microscope Based on the Solver-HV Probe Complex. <i>Instruments and Experimental Techniques</i> , 2018, 61, 761-765.	0.1	6
40	Magnetic Force Microscopy of Low-Coercivity Ferromagnetic Nanodiscs. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2296-2298.	1.2	5
41	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.	0.2	5
42	The use of navigation satellites signals for determination the characteristics of the soil and forest canopy. , 2012, , .		5
43	Ferromagnetic resonance in interacting magnetic microstrips. <i>Physics of the Solid State</i> , 2016, 58, 2212-2217.	0.2	5
44	Controlled Domain Wall Pinning in Permalloy Nanowire by Nanoparticle Stray Fields. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-7.	1.2	5
45	Peat moss <i>Sphagnum riparium</i> follows a circatrigintan growth rhythm <i>in situ</i> : A case report. <i>Chronobiology International</i> , 2017, 34, 981-984.	0.9	5
46	Simulation of the MFM contrast from small low-coercive ferromagnetic nanoparticles in an external field. <i>Journal of Surface Investigation</i> , 2007, 1, 348-351.	0.1	4
47	Controlled growth of Co nanofilms on Si(100) by ion-beam sputtering. <i>Inorganic Materials</i> , 2009, 45, 1240-1245.	0.2	4
48	Simulation of ferromagnetic resonance in a rectangular microstrip. <i>Journal of Surface Investigation</i> , 2016, 10, 298-301.	0.1	4
49	Spin-wave resonances of ferromagnetic films with spatially modulated anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 446, 1-6.	1.0	4
50	Impact of the Field of a Magnetic Force Microscope Probe on the Skyrmion State in a Modified Co/Pt Film with Perpendicular Anisotropy. <i>Physics of the Solid State</i> , 2019, 61, 1594-1598.	0.2	4
51	Generalization of London equations with space-time sedeons. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021, 18, 2150039.	0.8	4
52	Two Types of Lorentz Transformations for Massless Fields. <i>Journal of Geometry and Symmetry in Physics</i> , 2017, 44, 83-96.	0.1	4
53	Directional crystallization as a result of laser annealing of films. <i>Soviet Journal of Quantum Electronics</i> , 1984, 14, 121-123.	0.1	3
54	The use of a scanning tunneling microscope (STM) for investigation of local photoconductivity of quantum-dimensional semiconductor structures. <i>Technical Physics Letters</i> , 2000, 26, 1-3.	0.2	3

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55	Interaction of a magnetic vortex with the probe field of a magnetic force microscope. Journal of Surface Investigation, 2007, 1, 466-470.	0.1	3
56	Magnetotransport properties of GaMnAs with ferromagnetic nanodots. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1043-1046.	0.8	3
57	Effect of the probe field in a magnetic force microscope on the magnetization distribution in samples. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1475-1478.	0.1	3
58	Numerical computation of the L-band emission and scattering of soil layers with consideration of moisture and temperature gradients. , 2012, , .		3
59	Magnetostatic interaction effects in an ordering hexagonal array of ferromagnetic nanoparticles. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 32-35.	0.1	3
60	Domain Wall Nucleation in Ferromagnetic Nanowire With Perpendicular Magnetization Stimulated by Stray Field of V-Shaped Magnetic Particle. IEEE Transactions on Magnetics, 2018, 54, 1-8.	1.2	3
61	Influence of the Magnetic Moment of the Probe of a Magnetic Resonance Force Microscope on the Spin-Wave Resonance Spectra. Physics of the Solid State, 2018, 60, 2254-2258.	0.2	3
62	Peculiarities of the Resistive State in Mo/Si Superlattices in a Magnetic Field. Modern Physics Letters B, 2003, 17, 627-634.	1.0	2
63	Fabrication and magnetic force microscopy (MFM) observation of nano scale ferromagnetic nanodot arrays. Metals and Materials International, 2005, 11, 415-419.	1.8	2
64	Pinning of domain walls in two-layer ferromagnetic nanowire with scattering fields of nanoparticles. Physics of the Solid State, 2017, 59, 2183-2188.	0.2	2
65	Magnetic Resonance Force Microscopy of a Permalloy Microstrip Array. Technical Physics Letters, 2018, 44, 203-206.	0.2	2
66	Spectroscopic Multirelaxation Dielectric Model of Thawed and Frozen Arctic Soils Considering the Dependence on Temperature and Organic Matter Content. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 986-995.	0.2	2
67	Magnetic Resonance Force Spectroscopy of Magnetic Vortex Oscillations. Technical Physics, 2020, 65, 1740-1743.	0.2	2
68	Modeling of Forced Oscillations of Magnetization in a System of Three Ferromagnetic Nanodisks. Physics of the Solid State, 2020, 62, 1513-1517.	0.2	2
69	Cyrotropic Modes of Ferromagnetic Resonance in System of Two Exchange-Coupled Magnetic Vortices. IEEE Transactions on Magnetics, 2021, 57, 1-6.	1.2	2
70	Effect of cation composition on the superconducting properties and on the microstructure of YBaCuO thin films. Physics of the Solid State, 2003, 45, 2025-2030.	0.2	1
71	Transitions between the states with uniform and vortex distributions of magnetization in ferromagnetic nanoparticles under the action of an inhomogeneous magnetic field. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 48-51.	0.1	1
72	Ferromagnetic resonance of a magnetostatically stabilized domain wall in a nanowireâ€“nanoparticle planar system. Technical Physics Letters, 2017, 43, 254-257.	0.2	1

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73	Localized spin-wave resonance modes of ferromagnetic microstrips in the field of a magnetic probe. Physics of the Solid State, 2017, 59, 2174-2178.	0.2	1
74	Manifestation of ferromagnetic resonance of permalloy microstripes in magnetic force spectroscopy measurements. Journal of Magnetism and Magnetic Materials, 2019, 491, 165538.	1.0	1
75	Simulation of the Interaction of a Magnetic Resonance Force Microscope Probe with a Ferromagnetic Sample. Technical Physics, 2019, 64, 1556-1559.	0.2	1
76	Investigation of the photoluminescence and modification of InGaP/GaAs/InGaAs heterostructures by near-field scanning microscopy. Technical Physics Letters, 1997, 23, 624-625.	0.2	0
77	Investigation of inhomogeneities in thin films of high-temperature superconductors by scanning probe microscopy. Technical Physics Letters, 1999, 25, 154-156.	0.2	0
78	<title>Investigation of local photocurrent spectra in InAs/GaAs quantum dot and quantum well heterostructures</title>., 2001, , .		0
79	A method for calibrating a strip resonator used in measurements of the complex permittivity of moist soils and grounds. Instruments and Experimental Techniques, 2006, 49, 120-125.	0.1	0
80	Patterned ferromagnetic nanostructures. , 2010, , .		0
81	Modeling of the L-band emission and scattering of soil layers with consideration of moisture and temperature gradients. , 2012, , .		0
82	Tunnel magnetoresistance of bilayer ferromagnetic nanoparticles with magnetostatic interlayer interaction. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 183-185.	0.1	0
83	Magnetic States and Properties of Patterned Ferromagnetic Nanostructures. Frontiers of Nanoscience, 2014, 6, 189-215.	0.3	0
84	Ferromagnetic Resonance in Square Lattices of Planar Magnetic Cross-Shaped Elements. Physics of the Solid State, 2018, 60, 2218-2221.	0.2	0
85	Pinning of Domain Wall in Composite Ferromagnetic Nanowire Consisting of Two Layers With Distinct Magnetic Anisotropy. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	0
86	INVESTIGATION OF SURFACE MORPHOLOGY FEATURES AND LOCAL PHOTOELECTRIC PROPERTIES OF InAs/GaAs QUANTUM DOT STRUCTURES. , 2001, , .		0
87	MFM TIP INDUCED REMAGNETIZATION EFFECTS IN ELLIPTICAL FERROMAGNETIC NANOPARTICLES. , 2005, , .		0
88	Reformulation of elliptic equations for heat transfer and diffusion in solids with space-time algebra. International Journal of Geometric Methods in Modern Physics, 0, , .	0.8	0
89	Dielectric Model of Thawed and Frozen Organic Soil at the AMSR Radiometer Frequency. Izvestiya - Atmospheric and Oceanic Physics, 2021, 57, 1783-1788.	0.2	0