# Victor L Mironov

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 83 papers | 612 citations | 15 h-index | 20 g-index |
| 91 ext. papers | 676 ext. citations | 1.5 avg, IF | 4.18 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 83 | Generalization of London equations with space-time sedeons. *International Journal of Geometric Methods in Modern Physics*, **2021**, 18, 2150039 | 1.5 | 1 |
| 82 | Self-consistent hydrodynamic two-fluid model of vortex plasma. *Physics of Fluids*, **2021**, 33, 037116 | 4.4 | 2 |
| 81 | Gyrotropic Modes of Ferromagnetic Resonance in System of Two Exchange-Coupled Magnetic Vortices. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6 | 2 | 0 |
| 80 | Dielectric Model of Thawed and Frozen Organic Soil at the AMSR Radiometer Frequency. *Izvestiya - Atmospheric and Oceanic Physics*, **2021**, 57, 1783-1788 | 1 | |
| 79 | Growth of Sphagnum is strongly rhythmic: contribution of the seasonal, circalunar and third components. *Physiologia Plantarum*, **2020**, 168, 765-776 | 4.6 | 4 |
| 78 | Magnetic Resonance Force Spectroscopy of Magnetic Vortex Oscillations. *Technical Physics*, **2020**, 65, 1740-1743 | 0.5 | 2 |
| 77 | Pinning of Domain Wall in Composite Ferromagnetic Nanowire Consisting of Two Layers With Distinct Magnetic Anisotropy. *IEEE Transactions on Magnetics*, **2020**, 56, 1-6 | 2 | |
| 76 | Sedeonic Equations in Field Theory. *Advances in Applied Clifford Algebras*, **2020**, 30, 1 | 1 | 4 |
| 75 | Modeling of Forced Oscillations of Magnetization in a System of Three Ferromagnetic Nanodisks. *Physics of the Solid State*, **2020**, 62, 1513-1517 | 0.8 | 1 |
| 74 | Generalized sedeonic equations of hydrodynamics. *European Physical Journal Plus*, **2020**, 135, 1 | 3.1 | 3 |
| 73 | Impact of the Field of a Magnetic Force Microscope Probe on the Skyrmion State in a Modified Co/Pt Film with Perpendicular Anisotropy. *Physics of the Solid State*, **2019**, 61, 1594-1598 | 0.8 | 3 |
| 72 | Manifestation of ferromagnetic resonance of permalloy microstripes in magnetic force spectroscopy measurements. *Journal of Magnetism and Magnetic Materials*, **2019**, 491, 165538 | 2.8 | 1 |
| 71 | Artificial Dense Lattices of Magnetic Skyrmions. *Materials*, **2019**, 13, | 3.5 | 7 |
| 70 | 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 | 1 | |
| 69 | Simulation of the Interaction of a Magnetic Resonance Force Microscope Probe with a Ferromagnetic Sample. *Technical Physics*, **2019**, 64, 1556-1559 | 0.5 | 1 |
| 68 | Magnetic Resonance Force Microscopy of a Permalloy Microstrip Array. *Technical Physics Letters*, **2018**, 44, 203-206 | 0.7 | 2 |
| 67 | 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 | 2 | 3 |

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| 66 | Spin-wave resonances of ferromagnetic films with spatially modulated anisotropy. *Journal of Magnetism and Magnetic Materials*, **2018**, 446, 1-6 | 2.8 | 4 |
| 65 | Sedeonic Field Equations for Dyons. *Advances in Applied Clifford Algebras*, **2018**, 28, 1 | 1 | 5 |
| 64 | 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 | 0.8 | 3 |
| 63 | A Magnetic Resonance Force Microscope Based on the Solver-HV Probe Complex. *Instruments and Experimental Techniques*, **2018**, 61, 761-765 | 0.5 | 5 |
| 62 | Ferromagnetic Resonance in Square Lattices of Planar Magnetic Cross-Shaped Elements. *Physics of the Solid State*, **2018**, 60, 2218-2221 | 0.8 | |
| 61 | Ferromagnetic resonance force microscopy of individual domain wall. *Applied Physics Letters*, **2018**, 113, 122407 | 3.4 | 6 |
| 60 | Ferromagnetic resonance of a magnetostatically stabilized domain wall in a nanowire–nanoparticle planar system. *Technical Physics Letters*, **2017**, 43, 254-257 | 0.7 | |
| 59 | Sedeonic equations of ideal fluid. *Journal of Mathematical Physics*, **2017**, 58, 083101 | 1.2 | 5 |
| 58 | Pinning of domain walls in two-layer ferromagnetic nanowire with scattering fields of nanoparticles. *Physics of the Solid State*, **2017**, 59, 2183-2188 | 0.8 | 2 |
| 57 | Peat moss Sphagnum riparium follows a circatrigintan growth rhythm in situ: A case report. *Chronobiology International*, **2017**, 34, 981-984 | 3.6 | 4 |
| 56 | Ferromagnetic resonance in submicron permalloy stripes. *Journal of Magnetism and Magnetic Materials*, **2017**, 424, 118-121 | 2.8 | 15 |
| 55 | Localized spin-wave resonance modes of ferromagnetic microstrips in the field of a magnetic probe. *Physics of the Solid State*, **2017**, 59, 2174-2178 | 0.8 | 1 |
| 54 | Magnetic Force Microscopy of Nanostructured Co/Pt Multilayer Films with Perpendicular Magnetization. *Materials*, **2017**, 10, | 3.5 | 9 |
| 53 | Two Types of Lorentz Transformations for Massless Fields. *Journal of Geometry and Symmetry in Physics*, **2017**, 44, 83-96 | 1.6 | 2 |
| 52 | Domain wall pinning controlled by the magnetic field of four nanoparticles in a ferromagnetic nanowire. *Physics of the Solid State*, **2016**, 58, 2223-2227 | 0.8 | 5 |
| 51 | Controlled Domain Wall Pinning in Permalloy Nanowire by Nanoparticle Stray Fields. *IEEE Transactions on Magnetics*, **2016**, 52, 1-7 | 2 | 5 |
| 50 | Gauge Invariance of Sedeonic Equations for Massive and Massless Fields. *International Journal of Theoretical Physics*, **2016**, 55, 3105-3119 | 1.1 | 7 |
| 49 | Ferromagnetic resonance in interacting magnetic microstrips. *Physics of the Solid State*, **2016**, 58, 2212-2217 | 0.8 | 5 |

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| 48 | Interlayer interaction in multilayer [Co/Pt]n/Pt/Co structures. *Journal of Applied Physics*, **2016**, 120, 173901 | 2.5 | 13 |
| 47 | Simulation of ferromagnetic resonance in a rectangular microstrip. *Journal of Surface Investigation*, **2016**, 10, 298-301 | 0.5 | 4 |
| 46 | Skyrmion states in multilayer exchange coupled ferromagnetic nanostructures with distinct anisotropy directions. *Journal of Magnetism and Magnetic Materials*, **2015**, 393, 452-456 | 2.8 | 15 |
| 45 | Sedeonic Equations of Massive Fields. *International Journal of Theoretical Physics*, **2015**, 54, 153-168 | 1.1 | 15 |
| 44 | Domain wall pinning in a ferromagnetic nanowire by stray fields of nanoparticles. *Bulletin of the Russian Academy of Sciences: Physics*, **2014**, 78, 16-20 | 0.4 | 6 |
| 43 | Magnetic states and ferromagnetic resonance in geometrically frustrated arrays of multilayer ferromagnetic nanoparticles ordered on triangular lattices. *Journal of Applied Physics*, **2014**, 115, 184301 | 2.5 | 7 |
| 42 | Magnetic States and Properties of Patterned Ferromagnetic Nanostructures. *Frontiers of Nanoscience*, **2014**, 6, 189-215 | 0.7 | |
| 41 | Sedeonic Equations of Gravitoelectromagnetism. *Journal of Modern Physics*, **2014**, 05, 917-927 | 0.5 | 12 |
| 40 | Magnetostatic interaction effects in an ordering hexagonal array of ferromagnetic nanoparticles. *Bulletin of the Russian Academy of Sciences: Physics*, **2013**, 77, 32-35 | 0.4 | 3 |
| 39 | Reformulation of Relativistic Quantum Mechanics Equations with Non-Commutative Sedeons. *Applied Mathematics*, **2013**, 04, 53-60 | 0.4 | 15 |
| 38 | Tunnel magnetoresistance of bilayer ferromagnetic nanoparticles with magnetostatic interlayer interaction. *Bulletin of the Russian Academy of Sciences: Physics*, **2012**, 76, 183-185 | 0.4 | |
| 37 | Numerical computation of the L-band emission and scattering of soil layers with consideration of moisture and temperature gradients **2012**, | | 3 |
| 36 | Field-controlled domain wall pinning-depinning effects in a ferromagnetic nanowire-nanoislands system. *Physical Review B*, **2012**, 85, | 3.3 | 21 |
| 35 | The use of navigation satellites signals for determination the characteristics of the soil and forest canopy **2012**, | | 3 |
| 34 | Controlled growth of Co nanofilms on Si(100) by ion-beam deposition. *Inorganic Materials*, **2011**, 47, 869-875 | 0.7 | 11 |
| 33 | Magnetoresistance and noncollinear structures of multilayer ferromagnetic nanoparticles. *JETP Letters*, **2011**, 94, 386-389 | 1.2 | 8 |
| 32 | Antivortex state in crosslike nanomagnets. *Physical Review B*, **2010**, 81, | 3.3 | 40 |
| 31 | 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 | 1.2 | 16 |

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| 30 | Magnetization reversal of elliptic Co/Si/Co nanodisks in the field of a magnetic-force microscope probe. *Physics of the Solid State*, **2010**, 52, 2297-2302 | 0.8 | 5 |
| 29 | Octonic representation of electromagnetic field equations. *Journal of Mathematical Physics*, **2009**, 50, 012901 | 1.2 | 43 |
| 28 | Magnetic force microscope tip-induced remagnetization of CoPt nanodisks with perpendicular anisotropy. *Journal of Applied Physics*, **2009**, 106, 053911 | 2.5 | 24 |
| 27 | Octonic second-order equations of relativistic quantum mechanics. *Journal of Mathematical Physics*, **2009**, 50, 012302 | 1.2 | 20 |
| 26 | SEDEONIC GENERALIZATION OF RELATIVISTIC QUANTUM MECHANICS. *International Journal of Modern Physics A*, **2009**, 24, 6237-6254 | 1.2 | 16 |
| 25 | OCTONIC FIRST-ORDER EQUATIONS OF RELATIVISTIC QUANTUM MECHANICS. *International Journal of Modern Physics A*, **2009**, 24, 4157-4167 | 1.2 | 24 |
| 24 | Controlled growth of Co nanofilms on Si(100) by ion-beam sputtering. *Inorganic Materials*, **2009**, 45, 1240-1245 | 0.9 | 4 |
| 23 | 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 | 0.5 | 4 |
| 22 | Magnetic force microscopy of helical states in multilayer nanomagnets. *Journal of Applied Physics*, **2008**, 103, 073916 | 2.5 | 21 |
| 21 | Comparative x-ray reflectometry and atomic force microscopy of surfaces with non-Gaussian roughness. *Journal of Applied Physics*, **2008**, 104, 064301 | 2.5 | 10 |
| 20 | Magnetotransport properties of GaMnAs with ferromagnetic nanodots. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 1043-1046 | 1.6 | 3 |
| 19 | Magnetic Force Microscopy of Low-Coercivity Ferromagnetic Nanodiscs. *IEEE Transactions on Magnetics*, **2008**, 44, 2296-2298 | 2 | 5 |
| 18 | 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 | 0.4 | 2 |
| 17 | Magnetization reversal of ferromagnetic nanoparticles under inhomogeneous magnetic field. *Journal of Magnetism and Magnetic Materials*, **2007**, 309, 272-277 | 2.8 | 14 |
| 16 | MFM probe control of magnetic vortex chirality in elliptical Co nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2007**, 312, 153-157 | 2.8 | 38 |
| 15 | 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 | 2 | 12 |
| 14 | Simulation of the MFM contrast from small low-coercive ferromagnetic nanoparticles in an external field. *Journal of Surface Investigation*, **2007**, 1, 348-351 | 0.5 | 4 |
| 13 | Interaction of a magnetic vortex with the probe field of a magnetic force microscope. *Journal of Surface Investigation*, **2007**, 1, 466-470 | 0.5 | 3 |

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| 12 | 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 | 0.4 | |
| 11 | Magnetic state control of ferromagnetic nanodots by magnetic force microscopy probe. *Journal of Applied Physics*, **2006**, 100, 104304 | 2.5 | 22 |
| 10 | 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 | 0.5 | |
| 9 | Possibility of observing chiral-symmetry effects in ferromagnetic nanoparticles. *Physics of the Solid State*, **2006**, 48, 1902-1905 | 0.8 | 6 |
| 8 | Fabrication and magnetic force microscopy (MFM) observation of nano scale ferromagnetic nanodot arrays. *Metals and Materials International*, **2005**, 11, 415-419 | 2.4 | 2 |
| 7 | Peculiarities of the Resistive State in Mo/Si Superlattices in a Magnetic Field. *Modern Physics Letters B*, **2003**, 17, 627-634 | 1.6 | 2 |
| 6 | 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 | 0.8 | 1 |
| 5 | The use of a scanning tunneling microscope (STM) for investigation of local photoconductivity of quantum-dimensional semiconductor structures. *Technical Physics Letters*, **2000**, 26, 1-3 | 0.7 | 3 |
| 4 | 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 | 3.1 | 9 |
| 3 | Investigation of inhomogeneities in thin films of high-temperature superconductors by scanning probe microscopy. *Technical Physics Letters*, **1999**, 25, 154-156 | 0.7 | |
| 2 | Investigation of the photoluminescence and modification of InGaP/GaAs/InGaAs heterostructures by near-field scanning microscopy. *Technical Physics Letters*, **1997**, 23, 624-625 | 0.7 | |
| 1 | Directional crystallization as a result of laser annealing of films. *Soviet Journal of Quantum Electronics*, **1984**, 14, 121-123 | | 3 |