

Vladimir V Rylkov

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.

42 papers	470 citations	12 h-index	20 g-index
45 ext. papers	596 ext. citations	2.6 avg, IF	3.65 L-index

#	Paper	IF	Citations
42	Technology and neuromorphic functionality of magnetron-sputtered memristive devices 2022 , 109-131		
41	Noise-assisted persistence and recovery of memory state in a memristive spiking neuromorphic network. <i>Chaos, Solitons and Fractals</i> , 2021 , 146, 110890	9.3	32
40	Necessary conditions for STDP-based pattern recognition learning in a memristive spiking neural network. <i>Neural Networks</i> , 2021 , 134, 64-75	9.1	37
39	Laser synthesis of thin $\text{Mn}_x\text{Si}_{1-x}$ films ($x \sim 0.5$) on c- and r- Al_2O_3 substrates at different laser energy densities at the target. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110457	9.3	2
38	Magneto-Optical Spectroscopy of $(\text{CoFeB})_x(\text{Al-O})_{100-x}$ Nanocomposites: Evidence of Superferromagnetism. <i>IEEE Magnetics Letters</i> , 2020 , 11, 1-4	1.6	0
37	Resistive switching kinetics and second-order effects in parylene-based memristors. <i>Applied Physics Letters</i> , 2020 , 117, 243501	3.4	8
36	Mechanisms of FMR line broadening in CoFeB-LiNbO_3 granular films in the vicinity of metal-insulator transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 495, 165875	2.8	4
35	Multifilamentary Character of Anticorrelated Capacitive and Resistive Switching in Memristive Structures Based on $(\text{CoFeB})_x(\text{LiNbO}_3)_{100-x}$ Nanocomposite. <i>Physical Review Applied</i> , 2020 , 14,	4.3	10
34	Unusual Behavior of the Coercive Field in a $(\text{CoFeB})_x(\text{LiNbO}_y)_{100-x}$ Nanocomposite with a High Content of Magnetic Ions in an Insulating Matrix. <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 128, 115-124	1	4
33	Yttria-stabilized zirconia cross-point memristive devices for neuromorphic applications. <i>Microelectronic Engineering</i> , 2019 , 215, 110988	2.5	40
32	Magnetoresistance of $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_x(\text{SiO}_2)_{100-x}$ and $(\text{Co}_{84}\text{Nb}_{14}\text{Ta}_2)_x(\text{Al}_2\text{O}_3)_{100-x}$ nanocomposites below the percolation threshold in pulsed magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 155-160	2.8	8
31	Parylene Based Memristive Devices with Multilevel Resistive Switching for Neuromorphic Applications. <i>Scientific Reports</i> , 2019 , 9, 10800	4.9	59
30	On the resistive switching mechanism of parylene-based memristive devices. <i>Organic Electronics</i> , 2019 , 74, 89-95	3.5	24
29	Formation of a Memristive Array of Crossbar-Structures Based on $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_x(\text{LiNbO}_3)_{100-x}$ Nanocomposite. <i>Journal of Communications Technology and Electronics</i> , 2019 , 64, 1135-1139	0.5	4
28	Properties of Nanocomposites With Different Concentrations of Magnetic Ions in an Insulating Matrix. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-4	1.6	3
27	Monopolar Resistive Switching in Diamond-Like Carbon Films. <i>Semiconductors</i> , 2019 , 53, 1970-1973	0.7	
26	Transport, Magnetic, and Memristive Properties of a Nanogranular $(\text{CoFeB})_x(\text{LiNbO}_y)_{100-x}$ Composite Material. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 126, 353-367	1	39

25	Magnetic Metal-Nonstoichiometric Oxide Nanocomposites: Structure, Transport, and Memristive Properties 2018 , 427-464		1
24	Electronic and magneto-optical properties of ZnO:Co. <i>EPJ Web of Conferences</i> , 2018 , 185, 06012	0.3	
23	Properties of granular (CoFeB) (Al ₂ O ₃) _{100-x} and (CoFeB) (LiNbO ₃) _{100-x} nanocomposites: Manifestation of superferromagnetic ordering effects. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 459, 197-201	2.8	14
22	Engineering of high-temperature ferromagnetic Si _{1-x} Mnx (x 0.5) alloyed films by pulsed laser deposition: Effect of laser fluence. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 459, 206-210	2.8	3
21	High field magnetoresistance of nanocomposites (Co ₈₄ Nb ₁₄ Ta ₂)X(Al ₂ O ₃) _{100-X} near the percolation threshold. <i>EPJ Web of Conferences</i> , 2018 , 185, 01013	0.3	0
20	Memristive Properties of Structures Based on (Co ₄₁ Fe ₃₉ B ₂₀) x (LiNbO ₃) _{100-x} Nanocomposites. <i>Journal of Communications Technology and Electronics</i> , 2018 , 63, 491-496	0.5	13
19	Magnetic anisotropy of polycrystalline high-temperature ferromagnetic Mn x Si 1-x (x0.5) alloy films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 429, 305-313	2.8	5
18	Tunneling anomalous Hall effect in nanogranular CoFe-B-Al-O films near the metal-insulator transition. <i>Physical Review B</i> , 2017 , 95,	3.3	28
17	Anomalous Hall effect in polycrystalline Mn x Si _{1-x} (x 0.5) films with the self-organized distribution of crystallites over their shapes and sizes. <i>JETP Letters</i> , 2016 , 103, 476-483	1.2	3
16	Anomalous Hall Effect in (Co ₄₁ Fe ₃₉ B ₂₀)x(Al ₂ O ₃) _{100-x} Nanocomposites: Temperature Dependence. <i>Solid State Phenomena</i> , 2015 , 233-234, 403-406	0.4	3
15	High-temperature ferromagnetism of Si _{1-x} Mnx (x0.520.55) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 383, 39-43	2.8	4
14	High-temperature ferromagnetism in Si _{1-x} Mn x (x 0.5) nonstoichiometric alloys. <i>JETP Letters</i> , 2012 , 96, 255-262	1.2	23
13	High-temperature ferromagnetism of Si _{1-x} Mn x films fabricated by laser deposition using the droplet velocity separation technique. <i>Semiconductors</i> , 2012 , 46, 1510-1517	0.7	5
12	Room-temperature ferromagnetism and anomalous Hall effect in Si _{1-x} Mnx (x0.35) alloys. <i>Physical Review B</i> , 2011 , 84,	3.3	16
11	X-Ray Diagnostics of Magnetic Semiconductor Quantum Well Structures. <i>Solid State Phenomena</i> , 2009 , 152-153, 537-540	0.4	
10	High-temperature ferromagnetism in laser-deposited layers of silicon and germanium doped with manganese or iron impurities. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 690-694	2.8	10
9	Transport features in laser-plasma-deposited InMnAs layers in strong magnetic fields. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 108, 149-158	1	8
8	Transport and magnetotransport properties of Mn-doped In _x Ga _{1-x} As/GaAs quantum well structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, e16-e19	2.8	6

7	Selective removal of atoms as a new method for fabrication of nanoscale patterned media. <i>Microelectronic Engineering</i> , 2003 , 69, 358-364	2.5	9
6	Hopping Anomalous Hall Effect in FeSiO ₂ Granular Films. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 218, 169-172	1.3	9
5	FIR photovoltaic effect in a boron-doped silicon structure. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1183-1184	2.8	1
4	Hall effect in insulating Fe/SiO ₂ magnetic granular films. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1980-1981	2.8	12
3	Studies of Magnetoresistance and Hall Effect in Insulating Fe/SiO ₂ Granular Films. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 205, 151-155	1.3	13
2	Quantum Quasi-1D Transport in Quasi-2D Highly Disordered Structures. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 205, 83-86	1.3	
1	Incoherent mesoscopic phenomena in semiconductor structure of macroscopic size. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 241, 259-266	3.3	8