Vladimir V Rylkov

List of Publications by Citations

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

#	Paper	IF	Citations
42	Parylene Based Memristive Devices with Multilevel Resistive Switching for Neuromorphic Applications. *Scientific Reports*, **2019**, 9, 10800	4.9	59
41	Yttria-stabilized zirconia cross-point memristive devices for neuromorphic applications. *Microelectronic Engineering*, **2019**, 215, 110988	2.5	40
40	Transport, Magnetic, and Memristive Properties of a Nanogranular (CoFeB) x (LiNbO y)100⊠ Composite Material. *Journal of Experimental and Theoretical Physics*, **2018**, 126, 353-367	1	39
39	Necessary conditions for STDP-based pattern recognition learning in a memristive spiking neural network. *Neural Networks*, **2021**, 134, 64-75	9.1	37
38	Noise-assisted persistence and recovery of memory state in a memristive spiking neuromorphic network. *Chaos, Solitons and Fractals*, **2021**, 146, 110890	9.3	32
37	Tunneling anomalous Hall effect in nanogranular CoFe-B-Al-O films near the metal-insulator transition. *Physical Review B*, **2017**, 95,	3.3	28
36	On the resistive switching mechanism of parylene-based memristive devices. *Organic Electronics*, **2019**, 74, 89-95	3.5	24
35	High-temperature ferromagnetism in Si1 □x Mn x (x □0.5) nonstoichiometric alloys. *JETP Letters*, **2012**, 96, 255-262	1.2	23
34	Room-temperature ferromagnetism and anomalous Hall effect in Si1⊠Mnx (x□0.35) alloys. *Physical Review B*, **2011**, 84,	3.3	16
33	Properties of granular (CoFeB) (Al2O3)100-x and (CoFeB) (LiNbO3)100-x nanocomposites: Manifestation of superferromagnetic ordering effects. *Journal of Magnetism and Magnetic Materials*, **2018**, 459, 197-201	2.8	14
32	Studies of Magnetoresistance and Hall Effect in Insulating Fe/SiO2 Granular Films. *Physica Status Solidi (B): Basic Research*, **1998**, 205, 151-155	1.3	13
31	Memristive Properties of Structures Based on (Co41Fe39B20) x (LiNbO3)100⊠ Nanocomposites. *Journal of Communications Technology and Electronics*, **2018**, 63, 491-496	0.5	13
30	Hall effect in insulating Fe/SiO2 magnetic granular films. *Physica B: Condensed Matter*, **2000**, 284-288, 1980-1981	2.8	12
29	High-temperature ferromagnetism in laser-deposited layers of silicon and germanium doped with manganese or iron impurities. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 690-694	2.8	10
28	Multifilamentary Character of Anticorrelated Capacitive and Resistive Switching in Memristive Structures Based on (CoFeB)x(LiNbO3)100⊠ Nanocomposite. *Physical Review Applied*, **2020**, 14,	4.3	10
27	Selective removal of atoms as a new method for fabrication of nanoscale patterned media. *Microelectronic Engineering*, **2003**, 69, 358-364	2.5	9
26	Hopping Anomalous Hall Effect in FeSiO2 Granular Films. *Physica Status Solidi (B): Basic Research*, **2000**, 218, 169-172	1.3	9

25	Magnetoresistance of (Co40Fe40B20)x(SiO2)100− and (Co84Nb14Ta2)x(Al2O3)100− nanocomposites below the percolation threshold in pulsed magnetic fields. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 155-160	2.8	8
24	Transport features in laser-plasma-deposited InMnAs layers in strong magnetic fields. *Journal of Experimental and Theoretical Physics*, **2009**, 108, 149-158	1	8
23	Incoherent mesoscopic phenomena in semiconductor structure of macroscopic size. *Physica A: Statistical Mechanics and Its Applications*, **1997**, 241, 259-266	3.3	8
22	Resistive switching kinetics and second-order effects in parylene-based memristors. *Applied Physics Letters*, **2020**, 117, 243501	3.4	8
21	Transport and magnetotransport properties of Mn-doped InxGa1−As/GaAs quantum well structures. *Journal of Magnetism and Magnetic Materials*, **2006**, 300, e16-e19	2.8	6
20	Magnetic anisotropy of polycrystalline high-temperature ferromagnetic Mn x Si 1-x (x0.5) alloy films. *Journal of Magnetism and Magnetic Materials*, **2017**, 429, 305-313	2.8	5
19	High-temperature ferromagnetism of Si1 x Mn x films fabricated by laser deposition using the droplet velocity separation technique. *Semiconductors*, **2012**, 46, 1510-1517	0.7	5
18	Unusual Behavior of the Coercive Field in a (CoFeB)x(LiNbOy)100 − Nanocomposite with a High Content of Magnetic Ions in an Insulating Matrix. *Journal of Experimental and Theoretical Physics*, **2019**, 128, 115-124	1	4
17	Formation of a Memristive Array of Crossbar-Structures Based on (Co40Fe40B20)x(LiNbO3)100 Nanocomposite. *Journal of Communications Technology and Electronics*, **2019**, 64, 1135-1139	0.5	4
16	High-temperature ferromagnetism of Si1−Mnx (x0.520.55) alloys. *Journal of Magnetism and Magnetic Materials*, **2015**, 383, 39-43	2.8	4
15	Mechanisms of FMR line broadening in CoFeB-LiNbO3 granular films in the vicinity of metal-insulator transition. *Journal of Magnetism and Magnetic Materials*, **2020**, 495, 165875	2.8	4
14	Anomalous Hall Effect in (Co41Fe39B20)x(Al)100-x Nanocomposites: Temperature Dependence. *Solid State Phenomena*, **2015**, 233-234, 403-406	0.4	3
13	Anomalous Hall effect in polycrystalline Mn x Si1− (x 0.5) films with the self-organized distribution of crystallites over their shapes and sizes. *JETP Letters*, **2016**, 103, 476-483	1.2	3
12	Properties of Nanocomposites With Different Concentrations of Magnetic Ions in an Insulating Matrix. *IEEE Magnetics Letters*, **2019**, 10, 1-4	1.6	3
11	Engineering of high-temperature ferromagnetic Si1−Mnx (x 0.5) alloyed films by pulsed laser deposition: Effect of laser fluence. *Journal of Magnetism and Magnetic Materials*, **2018**, 459, 206-210	2.8	3
10	Laser synthesis of thin MnxSi1-x films (x ~ 0.5) on c- and r-Al2O3 substrates at different laser energy densities at the target. *Chaos, Solitons and Fractals*, **2021**, 142, 110457	9.3	2
9	Magnetic Metal-Nonstoichiometric Oxide Nanocomposites: Structure, Transport, and Memristive Properties **2018**, 427-464		1
8	FIR photovoltaic effect in a boron-doped silicon structure. *Physica B: Condensed Matter*, **2000**, 284-288, 1183-1184	2.8	1

7	Magneto-Optical Spectroscopy of (CoFeB)x-(Al-O)100-x Nanocomposites: Evidence of Superferromagnetism. *IEEE Magnetics Letters*, **2020**, 11, 1-4	1.6	0
6	High field magnetoresistance of nanocomposites (Co84Nb14Ta2)X(Al2O3)100-X near the percolation threshold. *EPJ Web of Conferences*, **2018**, 185, 01013	0.3	0
5	Electronic and magneto-optical properties of ZnO:Co. *EPJ Web of Conferences*, **2018**, 185, 06012	0.3	
4	X-Ray Diagnostics of Magnetic Semiconductor Quantum Well Structures. *Solid State Phenomena*, **2009**, 152-153, 537-540	0.4	
3	Quantum Quasi-1D Transport in Quasi-2D Highly Disordered Structures. *Physica Status Solidi (B): Basic Research*, **1998**, 205, 83-86	1.3	
2	Monopolar Resistive Switching in Diamond-Like Carbon Films. *Semiconductors*, **2019**, 53, 1970-1973	0.7	
1	Technology and neuromorphic functionality of magnetron-sputtered memristive devices **2022**, 109-131		