

Valeriy Ryazanov

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.

33
papers

1,655
citations

12
h-index

35
g-index

35
ext. papers

1,877
ext. citations

3.2
avg. IF

3.93
L-index

#	Paper	IF	Citations
33	Comment on "Coulomb Blockade and Bloch Oscillations in Superconducting Ti Nanowires".. <i>Physical Review Letters</i> , 2022 , 128, 159701	7.4	1
32	Scalable memory elements based on rectangular SISFS junctions. <i>Journal of Applied Physics</i> , 2021 , 130, 173901	2.5	1
31	Environment-induced overheating phenomena in Au-nanowire based Josephson junctions. <i>Scientific Reports</i> , 2021 , 11, 15274	4.9	1
30	Inverse Problems of Heterogeneous Geological Layers Exploration Seismology Solution by Methods of Machine Learning. <i>Lobachevskii Journal of Mathematics</i> , 2021 , 42, 1728-1737	0.9	3
29	Nonlinear spin waves in ferromagnetic/superconductor hybrids. <i>Journal of Applied Physics</i> , 2020 , 127, 093903	2.5	4
28	Magnetoresistance of a Ferromagnet/Superconductor/Ferromagnet Trilayer Microbridge Based on Diluted PdFe Alloy. <i>JETP Letters</i> , 2020 , 112, 705-709	1.2	2
27	Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. <i>Physical Review Applied</i> , 2020 , 14,	4.3	10
26	On a Classification Method for a Large Number of Classes. <i>Pattern Recognition and Image Analysis</i> , 2019 , 29, 366-376	1	3
25	Interplay of Magnetization Dynamics with a Microwave Waveguide at Cryogenic Temperatures. <i>Physical Review Applied</i> , 2019 , 11,	4.3	12
24	Anomalous magneto-resistance of Ni-nanowire/Nb hybrid system. <i>Scientific Reports</i> , 2019 , 9, 14470	4.9	5
23	Fabrication of Optimized Superconducting Phase Inverters Based on Superconductor/Ferromagnet/Superconductor (π)-Junctions. <i>Journal of Low Temperature Physics</i> , 2018 , 190, 302-314	1.3	4
22	Probing dynamics of micro-magnets with multi-mode superconducting resonator. <i>Journal of Applied Physics</i> , 2018 , 123, 173904	2.5	8
21	Modified dispersion law for spin waves coupled to a superconductor. <i>Journal of Applied Physics</i> , 2018 , 124, 233903	2.5	9
20	Second-Harmonic Current-Phase Relation in Josephson Junctions with Ferromagnetic Barriers. <i>Physical Review Letters</i> , 2018 , 121, 177702	7.4	13
19	Ferromagnetic resonance with long Josephson junction. <i>Superconductor Science and Technology</i> , 2017 , 30, 054005	3.1	9
18	Solution of instance-based recognition problems with a large number of classes. <i>Doklady Mathematics</i> , 2017 , 96, 488-490	0.7	1
17	Josephson coupling across a long single-crystalline Cu nanowire. <i>Applied Physics Letters</i> , 2017 , 110, 222605	0.5	13

16	Optimisation of multiclass supervised classification based on using output codes with error-correcting. <i>Pattern Recognition and Image Analysis</i> , 2016 , 26, 262-265	1	1
15	Micromagnetic modeling of critical current oscillations in magnetic Josephson junctions. <i>Physical Review B</i> , 2016 , 94,	3.3	17
14	Magnetization dynamics in dilute Pd _{1-x} Fe _x thin films and patterned microstructures considered for superconducting electronics. <i>Journal of Applied Physics</i> , 2016 , 120, 163902	2.5	21
13	Multilevel models for solution of multiclass recognition problems. <i>Pattern Recognition and Image Analysis</i> , 2016 , 26, 461-473	1	3
12	Nonlocal supercurrent in mesoscopic multiterminal SNS Josephson junction in the low-temperature limit. <i>Physical Review B</i> , 2014 , 89,	3.3	11
11	Critical current in planar SNS Josephson junctions. <i>JETP Letters</i> , 2013 , 96, 668-673	1.2	5
10	Magnetic Josephson Junctions With Superconducting Interlayer for Cryogenic Memory. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 1701208-1701208	1.8	102
9	Theoretical model of superconducting spintronic SIFS devices. <i>Applied Physics Letters</i> , 2013 , 102, 192603-4	3.4	48
8	Magnetic switches based on Nb-PdFe-Nb Josephson junctions with a magnetically soft ferromagnetic interlayer. <i>JETP Letters</i> , 2012 , 95, 366-371	1.2	54
7	Implementation of superconductor/ferromagnet/ superconductor π shifters in superconducting digital and quantum circuits. <i>Nature Physics</i> , 2010 , 6, 593-597	16.2	154
6	Reentrant superconductivity in superconductor/ferromagnetic-alloy bilayers. <i>Physical Review B</i> , 2010 , 82,	3.3	38
5	Josephson tunnel junctions with a strong ferromagnetic interlayer. <i>Physical Review B</i> , 2009 , 79,	3.3	73
4	Quasi-one-dimensional Fulde-Ferrell-Larkin-Ovchinnikov-like state in Nb/Cu _{0.41} Ni _{0.59} bilayers. <i>JETP Letters</i> , 2009 , 90, 139-142	1.2	11
3	Superconductor/ferromagnet/superconductor junctions. <i>Journal of Low Temperature Physics</i> , 2004 , 136, 385-400	1.3	57
2	Fluctuation conductivity in superconducting MgB ₂ . <i>JETP Letters</i> , 2002 , 76, 17-20	1.2	12
1	Coupling of two superconductors through a ferromagnet: evidence for a π junction. <i>Physical Review Letters</i> , 2001 , 86, 2427-30	7.4	947