Valeriy Ryazanov

List of Publications by Year
in descending order

35	2,051	566801 15	377514 34
papers	citations	h-index	g-index

35	35	35	1197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coupling of Two Superconductors through a Ferromagnet: Evidence for aï€Junction. Physical Review Letters, 2001, 86, 2427-2430.	2.9	1,067
2	Implementation of superconductor/ferromagnet/ superconductor Ï€-shifters in superconducting digital and quantum circuits. Nature Physics, 2010, 6, 593-597.	6.5	205
3	Magnetic Josephson Junctions With Superconducting Interlayer for Cryogenic Memory. IEEE Transactions on Applied Superconductivity, 2013, 23, 1701208-1701208.	1.1	126
4	Josephson tunnel junctions with a strong ferromagnetic interlayer. Physical Review B, 2009, 79, .	1.1	85
5	Magnetic switches based on Nb-PdFe-Nb Josephson junctions with a magnetically soft ferromagnetic interlayer. JETP Letters, 2012, 95, 366-371.	0.4	63
6	Superconductorâ€"Ferromagnetâ€"Superconductor Â-junctions. Journal of Low Temperature Physics, 2004, 136, 385-400.	0.6	62
7	Theoretical model of superconducting spintronic SIsFS devices. Applied Physics Letters, 2013, 102, .	1.5	61
8	Reentrant superconductivity in superconductor/ferromagnetic-alloy bilayers. Physical Review B, 2010, 82, .	1.1	44
9	Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. Physical Review Applied, 2020, 14, .	1.5	34
10	Second-Harmonic Current-Phase Relation in Josephson Junctions with Ferromagnetic Barriers. Physical Review Letters, 2018, 121, 177702.	2.9	31
11	Magnetization dynamics in dilute Pd₁₋_xFe_x thin films and patterned microstructures considered for superconducting electronics. Journal of Applied Physics, 2016, 120, 163902.	1.1	26
12	Approaching Deep-Strong On-Chip Photon-To-Magnon Coupling. Physical Review Applied, 2021, 16, .	1.5	24
13	Micromagnetic modeling of critical current oscillations in magnetic Josephson junctions. Physical Review B, 2016, 94, .	1.1	22
14	Josephson coupling across a long single-crystalline Cu nanowire. Applied Physics Letters, 2017, 110, .	1.5	21
15	Modified dispersion law for spin waves coupled to a superconductor. Journal of Applied Physics, 2018, 124, .	1.1	20
16	Fluctuation conductivity in superconducting MgB2. JETP Letters, 2002, 76, 17-20.	0.4	14
17	Ferromagnetic resonance with long Josephson junction. Superconductor Science and Technology, 2017, 30, 054005.	1.8	14
18	Scalable memory elements based on rectangular SIsFS junctions. Journal of Applied Physics, 2021, 130, .	1.1	14

#	Article	IF	Citations
19	Nonlocal supercurrent in mesoscopic multiterminal SNS Josephson junction in the low-temperature limit. Physical Review B, 2014, 89, .	1.1	13
20	Interplay of Magnetization Dynamics with a Microwave Waveguide at Cryogenic Temperatures. Physical Review Applied, 2019, 11, .	1.5	13
21	Nonlinear spin waves in ferromagnetic/superconductor hybrids. Journal of Applied Physics, 2020, 127, .	1.1	13
22	Quasi-one-dimensional Fulde-Ferrell-Larkin-Ovchinnikov-like state in Nb/Cu0.41Ni0.59 bilayers. JETP Letters, 2009, 90, 139-142.	0.4	12
23	Probing dynamics of micro-magnets with multi-mode superconducting resonator. Journal of Applied Physics, 2018, 123, .	1.1	11
24	On a Classification Method for a Large Number of Classes. Pattern Recognition and Image Analysis, 2019, 29, 366-376.	0.6	10
25	Anomalous magneto-resistance of Ni-nanowire/Nb hybrid system. Scientific Reports, 2019, 9, 14470.	1.6	9
26	Fabrication of Optimized Superconducting Phase Inverters Based on Superconductorâ€“Ferromagnetâ€“Superconductor $$pi $$ Ï€ -Junctions. Journal of Low Temperature Physics, 2018, 190, 302-314.	0.6	7
27	Magnetoresistance of a Ferromagnet/Superconductor/Ferromagnet Trilayer Microbridge Based on Diluted PdFe Alloy. JETP Letters, 2020, 112, 705-709.	0.4	7
28	Critical current in planar SNS Josephson junctions. JETP Letters, 2013, 96, 668-673.	0.4	6
29	Environment-induced overheating phenomena in Au-nanowire based Josephson junctions. Scientific Reports, 2021, 11, 15274.	1.6	5
30	Inverse Problems of Heterogeneous Geological Layers Exploration Seismology Solution by Methods of Machine Learning. Lobachevskii Journal of Mathematics, 2021, 42, 1728-1737.	0.1	4
31	Multilevel models for solution of multiclass recognition problems. Pattern Recognition and Image Analysis, 2016, 26, 461-473.	0.6	3
32	Optimisation of multiclass supervised classification based on using output codes with error-correcting. Pattern Recognition and Image Analysis, 2016, 26, 262-265.	0.6	2
33	Comment on â€œCoulomb Blockade and Bloch Oscillations in Superconducting Ti Nanowiresâ€• Physical Review Letters, 2022, 128, 159701.	2.9	2
34	Solution of instance-based recognition problems with a large number of classes. Doklady Mathematics, 2017, 96, 488-490.	0.1	1
35	Josephson SFS Ï€-junctions. Potential Applications in Computing. AIP Conference Proceedings, 2006, , .	0.3	0