

Valeriy Ryazanov

List of Publications by Citations

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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 | Coupling of two superconductors through a ferromagnet: evidence for a pi junction. <i>Physical Review Letters</i> , 2001 , 86, 2427-30 | 7.4 | 947 |
| 32 | Implementation of superconductor/ferromagnet/ superconductor π -shifters in superconducting digital and quantum circuits. <i>Nature Physics</i> , 2010 , 6, 593-597 | 16.2 | 154 |
| 31 | Magnetic Josephson Junctions With Superconducting Interlayer for Cryogenic Memory. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 1701208-1701208 | 1.8 | 102 |
| 30 | Josephson tunnel junctions with a strong ferromagnetic interlayer. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 73 |
| 29 | Superconductor/Ferromagnet/Superconductor π -junctions. <i>Journal of Low Temperature Physics</i> , 2004 , 136, 385-400 | 1.3 | 57 |
| 28 | 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 |
| 27 | Theoretical model of superconducting spintronic SISFS devices. <i>Applied Physics Letters</i> , 2013 , 102, 192603-4 | 3.4 | 48 |
| 26 | Reentrant superconductivity in superconductor/ferromagnetic-alloy bilayers. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 38 |
| 25 | 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 |
| 24 | Micromagnetic modeling of critical current oscillations in magnetic Josephson junctions. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 17 |
| 23 | Josephson coupling across a long single-crystalline Cu nanowire. <i>Applied Physics Letters</i> , 2017 , 110, 222605-5 | 3.4 | 13 |
| 22 | Second-Harmonic Current-Phase Relation in Josephson Junctions with Ferromagnetic Barriers. <i>Physical Review Letters</i> , 2018 , 121, 177702 | 7.4 | 13 |
| 21 | Interplay of Magnetization Dynamics with a Microwave Waveguide at Cryogenic Temperatures. <i>Physical Review Applied</i> , 2019 , 11, | 4.3 | 12 |
| 20 | Fluctuation conductivity in superconducting MgB ₂ . <i>JETP Letters</i> , 2002 , 76, 17-20 | 1.2 | 12 |
| 19 | Nonlocal supercurrent in mesoscopic multiterminal SNS Josephson junction in the low-temperature limit. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 11 |
| 18 | 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 |
| 17 | Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. <i>Physical Review Applied</i> , 2020 , 14, | 4.3 | 10 |

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|----|---|-----|---|
| 16 | Ferromagnetic resonance with long Josephson junction. <i>Superconductor Science and Technology</i> , 2017 , 30, 054005 | 3.1 | 9 |
| 15 | Modified dispersion law for spin waves coupled to a superconductor. <i>Journal of Applied Physics</i> , 2018 , 124, 233903 | 2.5 | 9 |
| 14 | Probing dynamics of micro-magnets with multi-mode superconducting resonator. <i>Journal of Applied Physics</i> , 2018 , 123, 173904 | 2.5 | 8 |
| 13 | Anomalous magneto-resistance of Ni-nanowire/Nb hybrid system. <i>Scientific Reports</i> , 2019 , 9, 14470 | 4.9 | 5 |
| 12 | Critical current in planar SNS Josephson junctions. <i>JETP Letters</i> , 2013 , 96, 668-673 | 1.2 | 5 |
| 11 | Nonlinear spin waves in ferromagnetic/superconductor hybrids. <i>Journal of Applied Physics</i> , 2020 , 127, 093903 | 2.5 | 4 |
| 10 | 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 |
| 9 | On a Classification Method for a Large Number of Classes. <i>Pattern Recognition and Image Analysis</i> , 2019 , 29, 366-376 | 1 | 3 |
| 8 | 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 |
| 7 | Multilevel models for solution of multiclass recognition problems. <i>Pattern Recognition and Image Analysis</i> , 2016 , 26, 461-473 | 1 | 3 |
| 6 | Magnetoresistance of a Ferromagnet/Superconductor/Ferromagnet Trilayer Microbridge Based on Diluted PdFe Alloy. <i>JETP Letters</i> , 2020 , 112, 705-709 | 1.2 | 2 |
| 5 | 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 |
| 4 | Solution of instance-based recognition problems with a large number of classes. <i>Doklady Mathematics</i> , 2017 , 96, 488-490 | 0.7 | 1 |
| 3 | Scalable memory elements based on rectangular SISFS junctions. <i>Journal of Applied Physics</i> , 2021 , 130, 173901 | 2.5 | 1 |
| 2 | Environment-induced overheating phenomena in Au-nanowire based Josephson junctions. <i>Scientific Reports</i> , 2021 , 11, 15274 | 4.9 | 1 |
| 1 | Comment on "Coulomb Blockade and Bloch Oscillations in Superconducting Ti Nanowires".. <i>Physical Review Letters</i> , 2022 , 128, 159701 | 7.4 | 1 |