

Filipp N Rybakov

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.

32
papers

851
citations

12
h-index

29
g-index

35
ext. papers

1,141
ext. citations

4.8
avg, IF

4.42
L-index

#	Paper	IF	Citations
32	The absence of superconductivity in the next-to-leading order Ginzburg-Landau functional for Bardeen-Cooper-Schrieffer superconductor. <i>Journal of Mathematical Physics</i> , 2021 , 62, 121901	1.2	
31	Geometry and symmetry in skyrmion dynamics. <i>Physical Review B</i> , 2021 , 104,	3.3	2
30	Antichiral ferromagnetism. <i>Physical Review B</i> , 2021 , 104,	3.3	1
29	Magnetic skyrmion braids. <i>Nature Communications</i> , 2021 , 12, 5316	17.4	2
28	Coupled quasimonopoles in chiral magnets. <i>Physical Review B</i> , 2020 , 101,	3.3	10
27	Synthetic nuclear Skyrme matter in imbalanced Fermi superfluids with a multicomponent order parameter. <i>Physical Review A</i> , 2020 , 101,	2.6	5
26	Magnetic skyrmions, chiral kinks, and holomorphic functions. <i>Physical Review B</i> , 2020 , 102,	3.3	13
25	Variational Principles of Micromagnetics Revisited. <i>SIAM Journal on Mathematical Analysis</i> , 2020 , 52, 3580-3599	1.7	12
24	Vortex nucleation barrier in superconductors beyond the Bean-Livingston approximation: A numerical approach for the sphaleron problem in a gauge theory. <i>Physical Review B</i> , 2020 , 101,	3.3	5
23	Coexistence of type-I and type-II superconductivity signatures in ZrB ₁₂ probed by muon spin rotation measurements. <i>Physical Review B</i> , 2020 , 102,	3.3	2
22	Stable Hopf-Skyrme topological excitations in the superconducting state. <i>Physical Review B</i> , 2019 , 100,	3.3	4
21	Spin-Orbit Protection of Induced Superconductivity in Majorana Nanowires. <i>Physical Review Letters</i> , 2019 , 122, 187702	7.4	30
20	Chiral magnetic skyrmions with arbitrary topological charge. <i>Physical Review B</i> , 2019 , 99,	3.3	34
19	Lifetime of racetrack skyrmions. <i>Scientific Reports</i> , 2018 , 8, 3433	4.9	88
18	Experimental observation of chiral magnetic bobbars in B20-type FeGe. <i>Nature Nanotechnology</i> , 2018 , 13, 451-455	28.7	150
17	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. <i>Physical Review Letters</i> , 2018 , 120, 197203	7.4	50
16	Charge order-Superfluidity transition in a two-dimensional system of hard-core bosons and emerging domain structures. <i>Physics of the Solid State</i> , 2017 , 59, 2127-2132	0.8	

15	Control of morphology and formation of highly geometrically confined magnetic skyrmions. <i>Nature Communications</i> , 2017 , 8, 15569	17.4	79
14	Charge Order-to-Superfluid Transition for 2D Hard-Core Bosons and Emergent Domain Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 43-48	1.5	6
13	New spiral state and skyrmion lattice in 3D model of chiral magnets. <i>New Journal of Physics</i> , 2016 , 18, 045002	2.9	56
12	Unusual Domain Structure and Filamentary Superfluidity for 2D Hard-Core Bosons in Insulating Charge-Ordered Phase. <i>Journal of Low Temperature Physics</i> , 2016 , 185, 488-494	1.3	1
11	New type of stable particlelike states in chiral magnets. <i>Physical Review Letters</i> , 2015 , 115, 117201	7.4	134
10	Hall effect and transmission electron microscopy of epitaxial MnSi thin films. <i>Physical Review B</i> , 2014 , 90,	3.3	33
9	Three-dimensional skyrmion states in thin films of cubic helimagnets. <i>Physical Review B</i> , 2013 , 87,	3.3	116
8	Spiral structures in helicoidal magnets. <i>JETP Letters</i> , 2012 , 96, 521-524	1.2	2
7	Three-dimensional magnetic solitons. <i>Physics of Metals and Metallography</i> , 2011 , 112, 745-766	1.2	0
6	Three-dimensional static vortex solitons in incommensurate magnetic crystals. <i>Low Temperature Physics</i> , 2010 , 36, 766-771	0.7	7
5	Dynamical toroidal Hopfions in a ferromagnet with easy-axis anisotropy. <i>JETP Letters</i> , 2009 , 90, 544-547	1.2	4
4	Stationary precession topological solitons with nonzero Hopf invariant in a uniaxial ferromagnet. <i>JETP Letters</i> , 2008 , 88, 264-267	1.2	4
3	Nutational two-dimensional structures in magnets. <i>Low Temperature Physics</i> , 2008 , 34, 515-521	0.7	
2	Contraction of the conducting region in an intrinsic semiconductor due to joule self-heating. <i>Semiconductors</i> , 2007 , 41, 18-21	0.7	
1	A distributed model of the organization of Joule-heating-induced autooscillations in a semiconductor. <i>Technical Physics Letters</i> , 2005 , 31, 706	0.7	