Filipp N Rybakov

List of Publications by Citations

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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	Experimental observation of chiral magnetic bobbers in B20-type FeGe. *Nature Nanotechnology*, **2018**, 13, 451-455	28.7	150
31	New type of stable particlelike states in chiral magnets. *Physical Review Letters*, **2015**, 115, 117201	7.4	134
30	Three-dimensional skyrmion states in thin films of cubic helimagnets. *Physical Review B*, **2013**, 87,	3.3	116
29	Lifetime of racetrack skyrmions. *Scientific Reports*, **2018**, 8, 3433	4.9	88
28	Control of morphology and formation of highly geometrically confined magnetic skyrmions. *Nature Communications*, **2017**, 8, 15569	17.4	79
27	New spiral state and skyrmion lattice in 3D model of chiral magnets. *New Journal of Physics*, **2016**, 18, 045002	2.9	56
26	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. *Physical Review Letters*, **2018**, 120, 197203	7.4	50
25	Chiral magnetic skyrmions with arbitrary topological charge. *Physical Review B*, **2019**, 99,	3.3	34
24	Hall effect and transmission electron microscopy of epitaxial MnSi thin films. *Physical Review B*, **2014**, 90,	3.3	33
23	Spin-Orbit Protection of Induced Superconductivity in Majorana Nanowires. *Physical Review Letters*, **2019**, 122, 187702	7.4	30
22	Magnetic skyrmions, chiral kinks, and holomorphic functions. *Physical Review B*, **2020**, 102,	3.3	13
21	Variational Principles of Micromagnetics Revisited. *SIAM Journal on Mathematical Analysis*, **2020**, 52, 3580-3599	1.7	12
20	Coupled quasimonopoles in chiral magnets. *Physical Review B*, **2020**, 101,	3.3	10
19	Three-dimensional static vortex solitons in incommensurate magnetic crystals. *Low Temperature Physics*, **2010**, 36, 766-771	0.7	7
18	Charge Order-to-Superfluid Transition for 2D Hard-Core Bosons and Emergent Domain Structures. *Journal of Superconductivity and Novel Magnetism*, **2017**, 30, 43-48	1.5	6
17	Synthetic nuclear Skyrme matter in imbalanced Fermi superfluids with a multicomponent order parameter. *Physical Review A*, **2020**, 101,	2.6	5
16	Vortex nucleation barrier in superconductors beyond the Bean-Livingston approximation: A numerical approach for the sphaleron problem in a gauge theory. *Physical Review B*, **2020**, 101,	3.3	5

15	Stable Hopf-Skyrme topological excitations in the superconducting state. *Physical Review B*, **2019**, 100,	3.3	4
14	Dynamical toroidal Hopfions in a ferromagnet with easy-axis anisotropy. *JETP Letters*, **2009**, 90, 544-547	1.2	4
13	Stationary precession topological solitons with nonzero Hopf invariant in a uniaxial ferromagnet. *JETP Letters*, **2008**, 88, 264-267	1.2	4
12	Spiral structures in helicoidal magnets. *JETP Letters*, **2012**, 96, 521-524	1.2	2
11	Geometry and symmetry in skyrmion dynamics. *Physical Review B*, **2021**, 104,	3.3	2
10	Coexistence of type-I and type-II superconductivity signatures in ZrB12 probed by muon spin rotation measurements. *Physical Review B*, **2020**, 102,	3.3	2
9	Magnetic skyrmion braids. *Nature Communications*, **2021**, 12, 5316	17.4	2
8	Unusual Domain Structure and Filamentary Superfluidity for 2D Hard-Core Bosons in Insulating Charge-Ordered Phase. *Journal of Low Temperature Physics*, **2016**, 185, 488-494	1.3	1
7	Antichiral ferromagnetism. *Physical Review B*, **2021**, 104,	3.3	1
6	Three-dimensional magnetic solitons. *Physics of Metals and Metallography*, **2011**, 112, 745-766	1.2	0
5	Charge order–superfluidity transition in a two-dimensional system of hard-core bosons and emerging domain structures. *Physics of the Solid State*, **2017**, 59, 2127-2132	0.8	
4	Nutational two-dimensional structures in magnets. *Low Temperature Physics*, **2008**, 34, 515-521	0.7	
3	Contraction of the conducting region in an intrinsic semiconductor due to joule self-heating. *Semiconductors*, **2007**, 41, 18-21	0.7	
2	A distributed model of the organization of Joule-heating-induced autooscillations in a semiconductor. *Technical Physics Letters*, **2005**, 31, 706	0.7	
1	The absence of superconductivity in the next-to-leading order Ginzburg–Landau functional for Bardeen–Cooper–Schrieffer superconductor. *Journal of Mathematical Physics*, **2021**, 62, 121901	1.2	