

Alexander Chernyshev

List of Publications by Year in descending order

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34
papers

1,699
citations

361413
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docs citations

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times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i> : Spontaneous magnon decays. <i>Reviews of Modern Physics</i> , 2013, 85, 219-242.	45.6	181
2	Spin waves in a triangular lattice antiferromagnet: Decays, spectrum renormalization, and singularities. <i>Physical Review B</i> , 2009, 79, .	3.2	180
3	Disorder-Induced Mimicry of a Spin Liquid in YbMgGaO . <i>Physical Review Letters</i> , 2017, 119, 157201.	7.8	170
4	Topography of Spin Liquids on a Triangular Lattice. <i>Physical Review Letters</i> , 2018, 120, 207203.	7.8	104
5	Dynamical structure factor of the triangular-lattice antiferromagnet. <i>Physical Review B</i> , 2013, 88, .	3.2	92
6	Anisotropic-Exchange Magnets on a Triangular Lattice: Spin Waves, Accidental Degeneracies, and Dual Spin Liquids. <i>Physical Review X</i> , 2019, 9, .	8.9	81
7	Magnon Decay in Noncollinear Quantum Antiferromagnets. <i>Physical Review Letters</i> , 2006, 97, 207202.	7.8	78
8	Quantum Selection of Order in an X_2Z Antiferromagnet on a Kagome Lattice. <i>Physical Review Letters</i> , 2014, 113, 237202.	7.8	73
9	Damped Topological Magnons in the Kagome-Lattice Ferromagnets. <i>Physical Review Letters</i> , 2016, 117, 187203.	7.8	73
10	Rethinking \hat{I}_{\pm} . <i>Physical Review Research</i> , 2020, 2, .	7.8	73
11	Metallic Stripe in Two Dimensions: Stability and Spin-Charge Separation. <i>Physical Review Letters</i> , 2000, 84, 4922-4925.	7.8	58
12	Diluted quantum antiferromagnets: Spin excitations and long-range order. <i>Physical Review B</i> , 2002, 65, .	3.2	58
13	Spontaneous decays of magneto-elastic excitations in non-collinear antiferromagnet (Y,Lu)MnO ₃ . <i>Nature Communications</i> , 2016, 7, 13146.	12.8	57
14	Higher order corrections to effective low-energy theories for strongly correlated electron systems. <i>Physical Review B</i> , 2004, 70, .	3.2	49
15	Order and excitations in S_{\pm} antiferromagnets. <i>Physical Review B</i> , 2015, 92, .	3.2	40
16	Charge ordering and long-range interactions in layered transition metal oxides: A quasiclassical continuum study. <i>Physical Review B</i> , 2000, 62, 4353-4369.	3.2	40
17	Thermal transport in antiferromagnetic spin-chain materials. <i>Physical Review B</i> , 2005, 72, .	3.2	35
18	Long-Range Order and Low-Energy Spectrum of Diluted 2D Quantum Antiferromagnet. <i>Physical Review Letters</i> , 2001, 87, 067209.	7.8	27

#	ARTICLE	IF	CITATIONS
19	Field-induced decay dynamics in square-lattice antiferromagnets. Physical Review B, 2010, 82, .	3.2	27
20	Field induced spontaneous quasiparticle decay and renormalization of quasiparticle dispersion in a quantum antiferromagnet. Nature Communications, 2017, 8, 15148.	12.8	24
21	Field-induced dynamical properties of the XXZ model on a honeycomb lattice. Physical Review B, 2016, 93, .	3.2	20
22	Thermal conductivity in antiferromagnets: Role of phonon scattering. Physical Review B, 2015, 92, .	3.2	19
23	Magnon damping in the zigzag phase of the Kitaev-Heisenberg- \hat{I} model on a honeycomb lattice. Physical Review B, 2020, 101, .	3.2	19
24	Dynamical structure factor of quasi-two-dimensional antiferromagnet in high fields. Physical Review B, 2012, 85, .	3.2	18
25	Heat Transport in Spin Chains with Weak Spin-Phonon Coupling. Physical Review Letters, 2016, 116, 017204.	7.8	18
26	Field-induced decays in XXZ triangular-lattice antiferromagnets. Physical Review B, 2016, 94, .	3.2	17
27	Spin Diffusion in Double-Exchange Manganites. Physical Review Letters, 2003, 90, 177202.	7.8	12
28	Lifetime of Gapped Excitations in a Collinear Quantum Antiferromagnet. Physical Review Letters, 2012, 109, 097201.	7.8	12
29	Highly Dispersive Scattering from Defects in Noncollinear Magnets. Physical Review Letters, 2013, 110, 157203.	7.8	12
30	Phase diagram of YbZnGaO_4 in applied magnetic field. Npj Quantum Materials, 2021, 6, .	5.2	7
31	Spin texture induced by non-magnetic doping and spin dynamics in 2D triangular lattice antiferromagnet $\text{h-Y}(\text{Mn,Al})\text{O}_3$. Nature Communications, 2021, 12, 2306.	12.8	6
32	Edge States in Doped Antiferromagnetic Nanostructures. Physical Review Letters, 2005, 94, 036407.	7.8	5
33	Fingerprinting triangular-lattice antiferromagnet by excitation gaps. Physical Review B, 2021, 103, .	3.2	4
34	Roller Coaster in a Flatland: Magnetoresistivity in Eu-Intercalated Graphite. Physical Review X, 2022, 12, .	8.9	3