

Alexander Chernyshev

List of Publications by Year in descending order

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34
papers

1,699
citations

361045

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h-index

360668

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35
all docs

35
docs citations

35
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Roller Coaster in a Flatland: Magnetoresistivity in Eu-Intercalated Graphite. Physical Review X, 2022, 12, .	2.8	3
2	Spin texture induced by non-magnetic doping and spin dynamics in 2D triangular lattice antiferromagnet h-Y(Mn,Al)O ₃ . Nature Communications, 2021, 12, 2306.	5.8	6
3	Fingerprinting triangular-lattice antiferromagnet by excitation gaps. Physical Review B, 2021, 103, .	1.1	4
4	Phase diagram of YbZnGaO ₄ in applied magnetic field. Npj Quantum Materials, 2021, 6, .	1.8	7
5	Magnon damping in the zigzag phase of the Kitaev-Heisenberg- \hat{I}^{\pm} model on a honeycomb lattice. Physical Review B, 2020, 101, .	1.1	19
6	Rethinking \hat{I}^{\pm} Physical Review Research, 2020, 2, .	1.1	19
7	Anisotropic-Exchange Magnets on a Triangular Lattice: Spin Waves, Accidental Degeneracies, and Dual Spin Liquids. Physical Review X, 2019, 9, .	2.8	81
8	Topography of Spin Liquids on a Triangular Lattice. Physical Review Letters, 2018, 120, 207203.	2.9	104
9	Field induced spontaneous quasiparticle decay and renormalization of quasiparticle dispersion in a quantum antiferromagnet. Nature Communications, 2017, 8, 15148.	5.8	24
10	Disorder-Induced Mimicry of a Spin Liquid in YbMgGaO Physical Review Letters, 2017, 119, 157201.	2.9	170
11	Field-induced dynamical properties of the XXZ model on a honeycomb lattice. Physical Review B, 2016, 93, .	1.1	20
12	Heat Transport in Spin Chains with Weak Spin-Phonon Coupling. Physical Review Letters, 2016, 116, 017204.	2.9	18
13	Damped Topological Magnons in the Kagome-Lattice Ferromagnets. Physical Review Letters, 2016, 117, 187203.	2.9	73
14	Spontaneous decays of magneto-elastic excitations in non-collinear antiferromagnet (Y,Lu)MnO ₃ . Nature Communications, 2016, 7, 13146.	5.8	57
15	Field-induced decays in XXZ triangular-lattice antiferromagnets. Physical Review B, 2016, 94, .	1.1	17
16	Order and excitations in S_{\pm} antiferromagnets. Physical Review B, 2015, 92, .	1.1	46
17	Thermal conductivity in J_{\pm} antiferromagnets: Role of phonon scattering. Physical Review B, 2015, 92, .	1.1	16
18	Quantum Selection of Order in an XZ Antiferromagnet on a Kagome Lattice. Physical Review Letters, 2014, 113, 237202.	2.9	73

#	ARTICLE	IF	CITATIONS
19	Dynamical structure factor of the triangular-lattice antiferromagnet. Physical Review B, 2013, 88, .	1.1	92
20	<i>Colloquium</i>: Spontaneous magnon decays. Reviews of Modern Physics, 2013, 85, 219-242.	16.4	181
21	Highly Dispersive Scattering from Defects in Noncollinear Magnets. Physical Review Letters, 2013, 110, 157203.	2.9	12
22	Lifetime of Gapped Excitations in a Collinear Quantum Antiferromagnet. Physical Review Letters, 2012, 109, 097201.	2.9	12
23	Dynamical structure factor of quasi-two-dimensional antiferromagnet in high fields. Physical Review B, 2012, 85, .	1.1	18
24	Field-induced decay dynamics in square-lattice antiferromagnets. Physical Review B, 2010, 82, .	1.1	27
25	Spin waves in a triangular lattice antiferromagnet: Decays, spectrum renormalization, and singularities. Physical Review B, 2009, 79, .	1.1	180
26	Magnon Decay in Noncollinear Quantum Antiferromagnets. Physical Review Letters, 2006, 97, 207202.	2.9	78
27	Edge States in Doped Antiferromagnetic Nanostructures. Physical Review Letters, 2005, 94, 036407.	2.9	5
28	Thermal transport in antiferromagnetic spin-chain materials. Physical Review B, 2005, 72, .	1.1	35
29	Higher order corrections to effective low-energy theories for strongly correlated electron systems. Physical Review B, 2004, 70, .	1.1	49
30	Spin Diffusion in Double-Exchange Manganites. Physical Review Letters, 2003, 90, 177202.	2.9	12
31	Diluted quantum antiferromagnets: Spin excitations and long-range order. Physical Review B, 2002, 65, .	1.1	58
32	Long-Range Order and Low-Energy Spectrum of Diluted 2D Quantum Antiferromagnet. Physical Review Letters, 2001, 87, 067209.	2.9	27
33	Metallic Stripe in Two Dimensions: Stability and Spin-Charge Separation. Physical Review Letters, 2000, 84, 4922-4925.	2.9	58
34	Charge ordering and long-range interactions in layered transition metal oxides: A quasiclassical continuum study. Physical Review B, 2000, 62, 4353-4369.	1.1	40