

# Arseny Syromyatnikov

## List of Publications by Year in descending order

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61  
papers

497  
citations

759233

12  
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839539

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65  
docs citations

65  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elementary excitations in spin- $\frac{1}{2}$ Heisenberg antiferromagnets on the triangular lattice. Physical Review B, 2022, 105, .	3.2	0
2	Critical temperature and low-energy excitations in gapped spin systems with defects. Physical Review B, 2021, 103, .	3.2	1
3	Antiferromagnets with random vacancies and substitutional spins on the triangular lattice. Physical Review B, 2021, 103, .	3.2	0
4	Sergey V. Maleyev (1931–2021). Journal of Neutron Research, 2021, , 1-3.	1.1	0
5	Multiple magnon modes in spin- $\frac{1}{2}$ Heisenberg antiferromagnet on simple square lattice in strong magnetic field. Physical Review B, 2020, 102, .	3.2	6
6	Formation of spiral ordering by magnetic field in frustrated anisotropic antiferromagnets. Physical Review B, 2019, 100, .	3.2	7
7	Elementary excitations in the ordered phase of spin- $\frac{1}{2}$ Heisenberg antiferromagnet on simple square lattice in strong magnetic field. Physical Review B, 2020, 102, .	3.2	7
8	Cubic B20 helimagnets with quenched disorder in magnetic field. Physical Review B, 2019, 99, .	3.2	4
9	Collective excitations in spin- $\frac{1}{2}$ magnets through bond-operator formalism designed both for paramagnetic and ordered phases. Physical Review B, 2018, 98, .	3.2	4
10	Spiral plane flops in frustrated helimagnets in external magnetic field. Physical Review B, 2018, 98, .	3.2	7
11	Possible crossover to percolation scenario near superfluid-Bose-glass transition. Journal of Magnetism and Magnetic Materials, 2017, 440, 54-56.	2.3	0
12	Spin-flop transition accompanied with changing the type of magnetic ordering. Journal of Magnetism and Magnetic Materials, 2017, 426, 279-286.	2.3	2
13	Spin-ice behavior of three-dimensional inverse opal-like magnetic structures: Micromagnetic simulations. Journal of Magnetism and Magnetic Materials, 2017, 441, 609-619.	2.3	6
14	Magnetically ordered phase near transition to Bose-glass phase. Physical Review B, 2017, 95, .	3.2	7
15	Quantum Transition Between Magnetically Ordered and Mott Glass Phases. Annalen Der Physik, 2017, 529, 1700055.	2.4	3
16	Cascades of phase transitions in spiral magnets caused by dipolar forces. Physical Review B, 2017, 95, .	3.2	13
17	Low-energy singlet sector in the spin- $\frac{1}{2}$ Heisenberg model on a square lattice. Journal of Experimental and Theoretical Physics, 2016, 123, 1035-1042.	0.9	5
18	Order-by-disorder effects in antiferromagnets on face-centered cubic lattice. Journal of Magnetism and Magnetic Materials, 2016, 414, 180-186.	2.3	7

#	ARTICLE	IF	CITATIONS
19	Low-energy singlet excitations in spin-1 Heisenberg antiferromagnet on square lattice. Journal of Magnetism and Magnetic Materials, 2016, 495, 12-17.	2.3	23
20	Self-consistent T-matrix approach to Bose-glass in one dimension. Journal of Magnetism and Magnetic Materials, 2016, 397, 11-19.	2.3	0
21	Spiral magnets with Dzyaloshinskii-Moriya interaction containing defect bonds. Physical Review B, 2015, 92, .	3.2	12
22	Breakdown of long-wavelength magnons in cubic antiferromagnets with dipolar forces at small temperature. Physical Review B, 2015, 91, .	3.2	4
23	Theory of field-induced quantum phase transition in spin dimer system Ba <sub>3</sub> Cr <sub>2</sub> O <sub>8</sub> . Journal of Magnetism and Magnetic Materials, 2014, 358-359, 177-182.	2.3	4
24	Localized and propagating excitations in gapped phases of spin systems with bond disorder. Physical Review B, 2014, 90, .	3.2	10
25	Spin nematic states in spin-1 antiferromagnets with easy-axis anisotropy. JETP Letters, 2013, 97, 107-112.	1.4	3
26	Spin nematic states in antiferromagnets containing ferromagnetic bonds. Physical Review B, 2013, 87, .	3.2	2
27	Chiral spin liquid in a two-dimensional helical XY magnet with two chiral order parameters. JETP Letters, 2012, 96, 410-415.	1.4	5
28	Chiral spin liquid in two-dimensional XY helimagnets. Physical Review B, 2012, 85, .	3.2	17
29	Spin nematic phase in one-dimensional and quasi-one-dimensional frustrated magnets in a strong magnetic field. Physical Review B, 2012, 86, .	3.2	21
30	Arrays of interacting ferromagnetic nanofilaments: Small-angle neutron diffraction study. JETP Letters, 2011, 94, 635-641.	1.4	14
31	Quantum magnets with large single-ion easy-plane anisotropy in magnetic field. JETP Letters, 2011, 94, 665-670.	1.4	3
32	First order transition in three-dimensional systems with fully broken O(3) symmetry. Journal of Experimental and Theoretical Physics, 2011, 112, 1004-1012.	0.9	9
33	Transitions in three-dimensional XY magnets with two chiral order parameters. Journal of Experimental and Theoretical Physics, 2011, 113, 673-677.	0.9	12
34	Bosonic representation of quantum magnets with large single-ion easy-plane anisotropy. Physical Review B, 2011, 84, .	3.2	17
35	Antiferromagnet with two coupled antiferromagnetic sublattices in a magnetic field. Journal of Physics Condensed Matter, 2011, 23, 146002.	1.8	7
36	Magnetic properties of a two-dimensional spatially ordered array of nickel nanowires. Physics of the Solid State, 2010, 52, 1080-1086.	0.6	11

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37	Nanostructures: Scattering beyond the Born approximation. <i>Physical Review B</i> , 2010, 81, .	3.2	22
38	Spectrum of short-wavelength magnons in a two-dimensional quantum Heisenberg antiferromagnet on a square lattice: third-order expansion in $1/S$ . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 216003.	1.8	25
39	Anomalously large damping of long-wavelength quasiparticles caused by long-range interaction. <i>Physical Review B</i> , 2010, 82, .	3.2	8
40	Instability of the collinear phase in a two-dimensional ferromagnet in a strong in-plane magnetic field. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 216009.	1.8	1
41	Spin-wave interaction in two-dimensional ferromagnets with dipolar forces. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 928-930.	2.3	1
42	Collective excitations in a two-dimensional antiferromagnet in a strong magnetic field. <i>Physical Review B</i> , 2009, 79, .	3.2	9
43	Spin-wave interaction in two-dimensional ferromagnets with dipolar forces. <i>Physical Review B</i> , 2008, 77, .	3.2	8
44	Magnon Bose condensation in a symmetry breaking magnetic field. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145208.	1.8	0
45	Bose-Einstein condensation of magnons in magnets with predominant ferromagnetic interactions. <i>Physical Review B</i> , 2007, 75, .	3.2	21
46	Two-dimensional spatially ordered Al <sub>2</sub> O <sub>3</sub> systems: Small-angle neutron scattering investigation. <i>JETP Letters</i> , 2007, 85, 449-453.	1.4	22
47	Spatially ordered arrays of magnetic nanowires: Polarized-neutron scattering investigation. <i>JETP Letters</i> , 2007, 85, 605-610.	1.4	7
48	A nonfrustrated magnetoelectric with incommensurate magnetic order in magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 105, 587-592.	0.9	1
49	Renormalization of the spin-wave spectrum in three-dimensional ferromagnets with dipolar interaction. <i>Physical Review B</i> , 2006, 74, .	3.2	9
50	Frustrated impurity spins in ordered two-dimensional quantum antiferromagnets. <i>Physical Review B</i> , 2006, 74, .	3.2	5
51	Chiral fluctuations in triangular antiferromagnets at $T \approx T_N$ . <i>Physical Review B</i> , 2005, 71, .	3.2	7
52	Frustrated two-level impurities in two-dimensional antiferromagnets. <i>Physical Review B</i> , 2005, 72, .	3.2	5
53	Low-energy singlet dynamics of spin-Kagomé Heisenberg antiferromagnets and low-temperature features in the specific heat of Kagomé clusters. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S843-S848.	1.8	3
54	Low-energy singlet dynamics of spin-1/2 Kagomé Heisenberg antiferromagnets. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 98, 538-545.	0.9	6

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55	Double-peak specific heat feature in frustrated antiferromagnetic clusters. JETP Letters, 2004, 79, 221-225.	1.4	3
56	Neutron multiwave interference with many resonance coils: a test experiment. Physica B: Condensed Matter, 2004, 350, E1039-E1042.	2.7	1
57	Neutron-multiwave-interference experiments with many resonance coils. Physical Review A, 2003, 68, .	2.5	4
58	Hidden long-range order in kagomÃ© Heisenberg antiferromagnets. Physical Review B, 2002, 66, .	3.2	58
59	Nuclear-magnetic interference in the inelastic scattering of the polarized neutrons in a dipolar ferromagnet. Physica B: Condensed Matter, 2001, 297, 82-86.	2.7	2
60	Spin-wave interaction in two- and three-dimensional antiferromagnets in a weak magnetic field. Physical Review B, 2001, 65, .	3.2	15
61	Transitions in There-Dimensional Magnets with Extra Broken Symmetry. Solid State Phenomena, 0, 190, 63-66.	0.3	4