

# Arseny Syromyatnikov

## List of Publications by Year in descending order

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61  
papers

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citations

759055

12  
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839398

18  
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65  
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65  
docs citations

65  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden long-range order in kagomÃ© Heisenberg antiferromagnets. Physical Review B, 2002, 66, .	1.1	58
2	Spectrum of short-wavelength magnons in a two-dimensional quantum Heisenberg antiferromagnet on a square lattice: third-order expansion in $1/\langle S \rangle$ . Journal of Physics Condensed Matter, 2010, 22, 216003.	0.7	25
3	Two-dimensional spatially ordered Al <sub>2</sub> O <sub>3</sub> systems: Small-angle neutron scattering investigation. JETP Letters, 2007, 85, 449-453.	0.4	22
4	Nanostructures: Scattering beyond the Born approximation. Physical Review B, 2010, 81, .	1.1	22
5	Bose-Einstein condensation of magnons in magnets with predominant ferromagnetic interactions. Physical Review B, 2007, 75, .	1.1	21
6	Spin nematic phase in one-dimensional and quasi-one-dimensional frustrated magnets in a strong magnetic field. Physical Review B, 2012, 86, .	1.1	21
7	Bosonic representation of quantum magnets with large single-ion easy-plane anisotropy. Physical Review B, 2011, 84, .	1.1	17
8	Chiral spin liquid in two-dimensional XY helimagnets. Physical Review B, 2012, 85, .	1.1	17
9	Spin-wave interaction in two- and three-dimensional antiferromagnets in a weak magnetic field. Physical Review B, 2001, 65, .	1.1	15
10	Arrays of interacting ferromagnetic nanofilaments: Small-angle neutron diffraction study. JETP Letters, 2011, 94, 635-641.	0.4	14
11	Cascades of phase transitions in spiral magnets caused by dipolar forces. Physical Review B, 2017, 95, .	1.1	13
12	Transitions in three-dimensional XY magnets with two chiral order parameters. Journal of Experimental and Theoretical Physics, 2011, 113, 673-677.	0.2	12
13	Spiral magnets with Dzyaloshinskii-Moriya interaction containing defect bonds. Physical Review B, 2015, 92, .	1.1	12
14	Magnetic properties of a two-dimensional spatially ordered array of nickel nanowires. Physics of the Solid State, 2010, 52, 1080-1086.	0.2	11
15	Localized and propagating excitations in gapped phases of spin systems with bond disorder. Physical Review B, 2014, 90, .	1.1	10
16	Renormalization of the spin-wave spectrum in three-dimensional ferromagnets with dipolar interaction. Physical Review B, 2006, 74, .	1.1	9
17	Collective excitations in a two-dimensional antiferromagnet in a strong magnetic field. Physical Review B, 2009, 79, .	1.1	9
18	First order transition in three-dimensional systems with fully broken O(3) symmetry. Journal of Experimental and Theoretical Physics, 2011, 112, 1004-1012.	0.2	9

#	ARTICLE	IF	CITATIONS
19	Spin-wave interaction in two-dimensional ferromagnets with dipolar forces. Physical Review B, 2008, 77, .	1.1	8
20	Anomalously large damping of long-wavelength quasiparticles caused by long-range interaction. Physical Review B, 2010, 82, .	1.1	8
21	Chiral fluctuations in triangular antiferromagnets at $T^*$ . Physical Review B, 2005, 71, .	1.1	7
22	Spatially ordered arrays of magnetic nanowires: Polarized-neutron scattering investigation. JETP Letters, 2007, 85, 605-610.	0.4	7
23	Antiferromagnet with two coupled antiferromagnetic sublattices in a magnetic field. Journal of Physics Condensed Matter, 2011, 23, 146002.	0.7	7
24	Order-by-disorder effects in antiferromagnets on face-centered cubic lattice. Journal of Magnetism and Magnetic Materials, 2016, 414, 180-186.	1.0	7
25	Magnetically ordered phase near transition to Bose-glass phase. Physical Review B, 2017, 95, .	1.1	7
26	Collective excitations in spin- $\frac{1}{2}$ magnets through bond-operator formalism designed both for paramagnetic and ordered phases. Physical Review B, 2018, 98, .	1.1	7
27	Spiral plane flops in frustrated helimagnets in external magnetic field. Physical Review B, 2018, 98, .	1.1	7
28	Formation of spiral ordering by magnetic field in frustrated anisotropic antiferromagnets. Physical Review B, 2019, 100, .	1.1	7
29	Elementary excitations in the ordered phase of spin- $\frac{1}{2}$ magnets through bond-operator formalism designed both for paramagnetic and ordered phases. Physical Review B, 2018, 98, .	1.1	7
30	Elementary excitations in spin- $\frac{1}{2}$ antiferromagnets on the triangular lattice. Physical Review B, 2022, 105, .	1.1	7
31	Low-energy singlet dynamics of spin-1/2 Kagomé Heisenberg antiferromagnets. Journal of Experimental and Theoretical Physics, 2004, 98, 538-545.	0.2	6
32	Spin-ice behavior of three-dimensional inverse opal-like magnetic structures: Micromagnetic simulations. Journal of Magnetism and Magnetic Materials, 2017, 441, 609-619.	1.0	6
33	Multiple magnon modes in spin- $\frac{1}{2}$ Heisenberg antiferromagnet on simple square lattice in strong magnetic field. Physical Review B, 2020, 102, .	1.1	6
34	Frustrated two-level impurities in two-dimensional antiferromagnets. Physical Review B, 2005, 72, .	1.1	5
35	Frustrated impurity spins in ordered two-dimensional quantum antiferromagnets. Physical Review B, 2006, 74, .	1.1	5
36	Chiral spin liquid in a two-dimensional helical XY magnet with two chiral order parameters. JETP Letters, 2012, 96, 410-415.	0.4	5

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37	Low-energy singlet sector in the spin-1/2 J <sub>1</sub> J <sub>2</sub> Heisenberg model on a square lattice. Journal of Experimental and Theoretical Physics, 2016, 123, 1035-1042.	0.2	5
38	Neutron-multiwave-interference experiments with many resonance coils. Physical Review A, 2003, 68, .	1.0	4
39	Transitions in Three-Dimensional Magnets with Extra Broken Symmetry. Solid State Phenomena, 0, 190, 63-66.	0.3	4
40	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.	1.0	4
41	Breakdown of long-wavelength magnons in cubic antiferromagnets with dipolar forces at small temperature. Physical Review B, 2015, 91, .	1.1	4
42	Low-energy singlet excitations in spin-1 Kagomé Heisenberg antiferromagnet on square lattice. Journal of Magnetism and Magnetic Materials, 2016, 405, 42-47.	1.0	4
43	Cubic B20 helimagnets with quenched disorder in magnetic field. Physical Review B, 2019, 99, .	1.1	4
44	Low-energy singlet dynamics of spin-1 Kagomé Heisenberg antiferromagnets and low-temperature features in the specific heat of Kagomé clusters. Journal of Physics Condensed Matter, 2004, 16, S843-S848.	0.7	3
45	Double-peak specific heat feature in frustrated antiferromagnetic clusters. JETP Letters, 2004, 79, 221-225.	0.4	3
46	Quantum magnets with large single-ion easy-plane anisotropy in magnetic field. JETP Letters, 2011, 94, 665-670.	0.4	3
47	Spin nematic states in spin-1 antiferromagnets with easy-axis anisotropy. JETP Letters, 2013, 97, 107-112.	0.4	3
48	Quantum Transition Between Magnetically Ordered and Mott Glass Phases. Annalen Der Physik, 2017, 529, 1700055.	0.9	3
49	Nuclear-magnetic interference in the inelastic scattering of the polarized neutrons in a dipolar ferromagnet. Physica B: Condensed Matter, 2001, 297, 82-86.	1.3	2
50	Spin nematic states in antiferromagnets containing ferromagnetic bonds. Physical Review B, 2013, 87, .	1.1	2
51	Spin-flop transition accompanied with changing the type of magnetic ordering. Journal of Magnetism and Magnetic Materials, 2017, 426, 279-286.	1.0	2
52	Neutron multiwave interference with many resonance coils: a test experiment. Physica B: Condensed Matter, 2004, 350, E1039-E1042.	1.3	1
53	A nonfrustrated magnetoelectric with incommensurate magnetic order in magnetic field. Journal of Experimental and Theoretical Physics, 2007, 105, 587-592.	0.2	1
54	Instability of the collinear phase in a two-dimensional ferromagnet in a strong in-plane magnetic field. Journal of Physics Condensed Matter, 2009, 21, 216009.	0.7	1

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55	Spin-wave interaction in two-dimensional ferromagnets with dipolar forces. Journal of Magnetism and Magnetic Materials, 2009, 321, 928-930.	1.0	1
56	Antiferromagnets with random vacancies and substitutional spins on the triangular lattice. Physical Review B, 2021, 103, .	1.1	1
57	Magnon Bose condensation in a symmetry breaking magnetic field. Journal of Physics Condensed Matter, 2007, 19, 145208.	0.7	0
58	Self-consistent T-matrix approach to Bose-glass in one dimension. Journal of Magnetism and Magnetic Materials, 2016, 397, 11-19.	1.0	0
59	Possible crossover to percolation scenario near superfluid-Bose-glass transition. Journal of Magnetism and Magnetic Materials, 2017, 440, 54-56.	1.0	0
60	Critical temperature and low-energy excitations in gapped spin systems with defects. Physical Review B, 2021, 103, .	1.1	0
61	Sergey V. Maleyev (1931â€“2021). Journal of Neutron Research, 2021, , 1-3.	0.4	0