

Mike Zhitomirsky

List of Publications by Year in descending order

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citations

109321

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89
all docs

89
docs citations

89
times ranked

2934
citing authors

#	ARTICLE	IF	CITATIONS
1	Ginzburg-Landau theory of vortices in a multigap superconductor. Physical Review B, 2004, 69, .	3.2	211
2	Enhanced magnetocaloric effect in frustrated magnets. Physical Review B, 2003, 67, .	3.2	202
3	<i>Colloquium</i>: Spontaneous magnon decays. Reviews of Modern Physics, 2013, 85, 219-242.	45.6	181
4	Spin waves in a triangular lattice antiferromagnet: Decays, spectrum renormalization, and singularities. Physical Review B, 2009, 79, .	3.2	180
5	Interband Proximity Effect and Nodes of Superconducting Gap in Sr ₂ RuO ₄ . Physical Review Letters, 2001, 87, 057001.	7.8	169
6	Magnon pairing in quantum spin nematic. Europhysics Letters, 2010, 92, 37001.	2.0	157
7	Ferromagnetism in the hexaborides. Nature, 1999, 402, 251-253.	27.8	140
8	Magnetic exchange interactions in BaMn_2As_2 : A case study of the J_1 interaction. Physical Review B, 2004, 70, .	3.2	131
9	Exact low-temperature behavior of a kagomé antiferromagnet at high fields. Physical Review B, 2004, 70, .	3.2	129
10	Valence-bond crystal phase of a frustrated spin-1/2 square-lattice antiferromagnet. Physical Review B, 1996, 54, 9007-9010.	3.2	123
11	Quantum Order by Disorder and Accidental Soft Mode in Er_2O_7 . Physical Review Letters, 2012, 109, 077204.	7.8	114
12	Magnetocaloric effect in one-dimensional antiferromagnets. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P07012.	2.3	101
13	Magnetization curve of a square-lattice Heisenberg antiferromagnet. Physical Review B, 1998, 57, 5013-5016.	3.2	100
14	Field-Induced Transitions in a Kagomé Antiferromagnet. Physical Review Letters, 2002, 88, 057204.	7.8	100
15	Octupolar ordering of classical kagome antiferromagnets in two and three dimensions. Physical Review B, 2008, 78, .	3.2	97
16	Field Induced Ordering in Highly Frustrated Antiferromagnets. Physical Review Letters, 2000, 85, 3269-3272.	7.8	93
17	Magnetic ordering in Gd ₂ Sn ₂ O ₇ : the archetypal Heisenberg pyrochlore antiferromagnet. Journal of Physics Condensed Matter, 2006, 18, L37-L42.	1.8	93
18	Dynamical structure factor of the triangular-lattice antiferromagnet. Physical Review B, 2013, 88, .	3.2	92

#	ARTICLE	IF	CITATIONS
19	Possible phase diagrams of superconducting $U\text{Pt}_3$. Physical Review B, 1990, 42, 2014-2022.	3.2	85
20	Magnon Decay in Noncollinear Quantum Antiferromagnets. Physical Review Letters, 2006, 97, 207202.	7.8	78
21	Instability of Antiferromagnetic Magnons in Strong Fields. Physical Review Letters, 1999, 82, 4536-4539.	7.8	77
22	Magnetocaloric effect in pyrochlore antiferromagnet $\text{Gd}_2\text{Ti}_2\text{O}_7$. Physical Review B, 2005, 71, .	3.2	77
23	Quantum Selection of Order in an X_2Z Antiferromagnet on a Kagome Lattice. Physical Review Letters, 2014, 113, 237202.	7.8	73
24	High Field Properties of Geometrically Frustrated Magnets. Progress of Theoretical Physics Supplement, 2005, 160, 361-382.	0.1	70
25	Interplay between spin-density wave and induced local moments in URu_2Si_2 . Physical Review B, 2005, 72, .	3.2	70
26	Nearly critical ground state of $\text{LaCuO}_{2.5}$. Physical Review B, 1997, 55, R6117-R6120.	3.2	69
27	Direct Determination of Exchange Parameters in Cs_2CuBr_4 and Cs_2CuCl_4 : High-Field Electron-Spin-Resonance Studies. Physical Review Letters, 2014, 112, 077206.	7.8	63
28	Origin of Spin Gap in CaV_4O_9 : Effects of Frustration and Lattice Distortions. Physical Review Letters, 1996, 77, 2558-2561.	7.8	58
29	Magnetic phase diagrams of classical triangular and kagome antiferromagnets. Journal of Physics Condensed Matter, 2011, 23, 164209.	1.8	57
30	Lattice gas description of pyrochlore and checkerboard antiferromagnets in a strong magnetic field. Physical Review B, 2007, 75, .	3.2	46
31	Order and excitations in $S=4$ antiferromagnets. Physical Review B, 2015, 92, .		
32	Triangular Antiferromagnet with Nonmagnetic Impurities. Physical Review Letters, 2013, 111, 247201.	7.8	43
33	Static properties of a quasi-one-dimensional antiferromagnet in a magnetic field. Physical Review B, 1996, 53, 3428-3435.	3.2	41
34	Anisotropy of the upper critical field in MgB_2 : the two-gap Ginzburg-Landau theory. European Physical Journal B, 2005, 44, 183-188.	1.5	39
35	Spin-liquid behavior in a kagome antiferromagnet: Deuterium jarosite. Europhysics Letters, 2008, 81, 17006.	2.0	37
36	Magnetic transitions in triangular antiferromagnets with distorted exchange structure. Physical Review B, 1995, 52, 3511-3520.	3.2	35

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37	Single-ion anisotropy in the gadolinium pyrochlores studied by electron paramagnetic resonance. Physical Review B, 2005, 72, .	3.2	35
38	Quantum stabilization of classically unstable plateau structures. Physical Review B, 2013, 87, .	3.2	34
39	Quantum effects in magnetization of J_1^2 square lattice antiferromagnet. Physical Review B, 2008, 77, .	3.2	33
40	A Monte Carlo study of the first-order transition in a Heisenberg FCC antiferromagnet. JETP Letters, 2005, 81, 236-240.	1.4	32
41	Nature of finite-temperature transition in anisotropic pyrochlore $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi} \text{Er} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle$. Physical Review B, 2020, 101, 041109.	3.2	32
42	Order from structural disorder in the antiferromagnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{X} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{Y} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle$. Physical Review B, 2014, 90, .	3.2	31
43	Decay of quasiparticles in quantum spin liquids. Physical Review B, 2006, 73, .	3.2	29
44	Interplay of anisotropy and frustration: Triple transitions in a triangular-lattice antiferromagnet. Physical Review B, 2009, 80, .	3.2	29
45	High field magnetization of FePS_3 $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi} \text{FePS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:math} \rangle \rangle \rangle \rangle$. Physical Review B, 2020, 101, 041101.	3.2	29
46	Order by Quenched Disorder in the Model Triangular Antiferromagnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{RbFe} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{MoO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle$ stretchy="false" $\langle \text{mml:mi} \text{RbFe} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{MoO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle$. Physical Review Letters, 2017, 119, 047204.	7.8	28
47	Field-induced decay dynamics in square-lattice antiferromagnets. Physical Review B, 2010, 82, .	3.2	27
48	Interplay of spin and lattice degrees of freedom in the frustrated antiferromagnet CdCr_2O_4 : High-field and temperature-induced anomalies of the elastic constants. Physical Review B, 2011, 83, .	3.2	27
49	Magnetic phase diagram of a partially frustrated triangular antiferromagnet: The row model. Physical Review B, 1996, 54, 353-358.	3.2	26
50	Effect of Spatial Variations of the Superconducting Gap on Suppression of the Transition Temperature by Impurities. Physical Review Letters, 1998, 80, 5413-5416.	7.8	26
51	Frustrated Antiferromagnets at High Fields: Bose-Einstein Condensation in Degenerate Spectra. Physical Review Letters, 2004, 93, .	7.8	26
52	Roton-Phonon Interactions in Superfluid $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mmultiscripts} \langle \text{mml:mi} \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \langle \text{mml:math} \rangle \rangle \rangle \rangle$. Physical Review Letters, 2012, 109, 155305.	7.8	25
53	Electronic States on a Twin Boundary of a d-Wave Superconductor. Physical Review Letters, 1997, 79, 1734-1737.	7.8	24
54	Superconducting spin valves controlled by spiral re-orientation in B20-family magnets. Applied Physics Letters, 2017, 111, .	3.3	23

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55	Magnetic excitations in the geometrically frustrated pyrochlore antiferromagnet $\text{Gd}_2\text{Sn}_2\text{O}_7$ studied by electron spin resonance. <i>Physical Review B</i> , 2009, 79, .	3.2	22
56	Magneto-thermal properties of the spin- $\frac{1}{2}$ Heisenberg antiferromagnet on the cuboctahedron. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012082.	0.4	20
57	Real-space perturbation theory for frustrated magnets: application to magnetization plateaus. <i>Journal of Physics: Conference Series</i> , 2015, 592, 012110.	0.4	20
58	Broken discrete symmetries in a frustrated honeycomb antiferromagnet. <i>Physical Review B</i> , 2013, 87, .	3.2	19
59	Jammed Spin Liquid in the Bond-Disordered Kagome Antiferromagnet. <i>Physical Review Letters</i> , 2017, 119, 247201.	7.8	19
60	Effective quantum dimer model for trimerized kagome antiferromagnet. <i>Physical Review B</i> , 2005, 71, .	3.2	18
61	Dynamical structure factor of quasi-two-dimensional antiferromagnet in high fields. <i>Physical Review B</i> , 2012, 85, .	3.2	18
62	Phase diagram of the unconventional superconductor UPt_3 in the weak-crystal-field model. <i>Physical Review B</i> , 1996, 53, 6591-6604.	3.2	17
63	Electron-hole liquid in the hexaborides. <i>Physical Review B</i> , 2000, 62, 1492-1495.	3.2	17
64	An XY checkerboard antiferromagnet in an external field. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S759-S764.	1.8	17
65	Field-induced decays in XXZ triangular-lattice antiferromagnets. <i>Physical Review B</i> , 2016, 94, .	3.2	17
66	Magnetic resonance in the pyrochlore antiferromagnet $\text{Gd}_2\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2006, 73, .	3.2	16
67	Helicity, anisotropies, and their competition in a multiferroic magnet: Insight from the phase diagram. <i>Physical Review B</i> , 2016, 94, .	3.2	16
68	Hydrodynamic relation in a two-dimensional Heisenberg antiferromagnet in a field. <i>Physical Review B</i> , 2009, 79, .	3.2	15
69	Evidence for biquadratic exchange in the quasi-two-dimensional antiferromagnet FePS_3 . <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	14
70	Lifetime of Gapped Excitations in a Collinear Quantum Antiferromagnet. <i>Physical Review Letters</i> , 2012, 109, 097201.	7.8	12
71	Magnetic excitations in the spin- $\frac{1}{2}$ triangular-lattice antiferromagnet Cs_2CuBr_4 . <i>New Journal of Physics</i> , 2015, 17, 113059.	2.9	12
72	Collective impurity effects in the Heisenberg triangular antiferromagnet. <i>Journal of Physics: Conference Series</i> , 2015, 592, 012112.	0.4	11

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73	YbGG material for Adiabatic Demagnetization in the 100ÅmKâ€“3ÅK range. Cryogenics, 2020, 105, 103002.	1.7	10
74	Quantum versus thermal fluctuations in the fcc antiferromagnet: Alternative routes to order by disorder. Physical Review B, 2020, 102, .	3.2	10
75	Low-field behavior of an $\text{X}_2\text{Y}_2\text{Z}_2$ antiferromagnet: Emergent clock anisotropies. Physical Review B, 2016, 93, .	3.2	7
76	Self-consistent spin wave analysis of the magnetization plateau in triangular antiferromagnet. Journal of Physics: Conference Series, 2011, 320, 012011.	0.4	8
77	Modeling of Non-Stationary Electrokinetic Effect in a Conductive Crust. Journal of Geomagnetism and Geoelectricity, 1997, 49, 1317-1326.	0.9	8
78	Surface bound-state energies $\text{ind}_x^2 \text{y}^2$ and other unconventional superconductors. Physical Review B, 1997, 56, 9015-9020.	3.2	7
79	Spontaneous magnon decays in planar ferromagnet. Europhysics Letters, 2011, 95, 17007.	2.0	7
80	Spin dynamics of the quantum dipolar magnet Yb_3O_{12} in an external field. Physical Review B, 2021, 104, .	3.2	7
81	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
82	Antiferromagnetic resonance in the cubic iridium hexahalides NH_5 and NH_4 . Physical Review B, 2021, 104, .	3.2	5
83	Thermal conductivity across a twin boundary in ad-wave superconductor. Physical Review B, 1998, 57, 8560-8565.	3.2	4
84	Role of dimensionality in spontaneous magnon decay: Easy-plane ferromagnet. Physical Review B, 2014, 89, .	3.2	4
85	Electron spin resonance in spiral antiferromagnet linarite: Theory and experiment. Physical Review B, 2019, 100, .	3.2	3
86	Competition between dynamic and structural disorder in a doped triangular antiferromagnet $\text{RbFe}(\text{MoO}_4)_2$. Journal of Physics: Conference Series, 2018, 969, 012115.	0.4	1
87	Differential forms and vector fields with a manifold of singular points. Matematica Contemporanea, 1993, 5, .	0.0	1
88	Phase diagram of unconventional superconductor UPt_3 in weak crystal field model. European Physical Journal D, 1996, 46, 555-556.	0.4	0
89	Distorted vortex lattice in a tetrahedral superconductor. JETP Letters, 2006, 83, 167-171.	1.4	0