

Mike Zhitomirsky

List of Publications by Year in descending order

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2934
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	12.8	6
2	Spin dynamics of the quantum dipolar magnet Yb_3O_{12} in an external field. Physical Review B, 2021, 104, .	3.2	7
3	Antiferromagnetic resonance in the cubic iridium hexahalides $\text{NH}_2\text{Yb}_3\text{O}_{12}$ and $\text{NH}_2\text{Yb}_3\text{O}_{12}$. Physical Review B, 2021, 104, .	3.2	5
4	YbGG material for Adiabatic Demagnetization in the 100 mK–3 K range. Cryogenics, 2020, 105, 103002.	1.7	10
5	Quantum versus thermal fluctuations in the fcc antiferromagnet: Alternative routes to order by disorder. Physical Review B, 2020, 102, .	3.2	10
6	Evidence for biquadratic exchange in the quasi-two-dimensional antiferromagnet FePS ₃ . Journal of Applied Physics, 2020, 127, .	2.5	14
7	High field magnetization of FePS_3 . Physical Review B, 2020, 101, .	3.2	10
8	Electron spin resonance in spiral antiferromagnet linarite: Theory and experiment. Physical Review B, 2019, 100, .	3.2	3
9	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
10	Superconducting spin valves controlled by spiral re-orientation in B20-family magnets. Applied Physics Letters, 2017, 111, .	3.3	23
11	Jammed Spin Liquid in the Bond-Disordered Kagome Antiferromagnet. Physical Review Letters, 2017, 119, 247201.	7.8	19
12	Order by Quenched Disorder in the Model Triangular Antiferromagnet RbFeMoO_4 . Physical Review Letters, 2017, 119, 047204.	7.8	28
13	Low-field behavior of an $\text{X}_2\text{Y}_2\text{Z}$ antiferromagnet: Emergent clock anisotropies. Physical Review B, 2016, 93, .	3.2	16
14	Helicity, anisotropies, and their competition in a multiferroic magnet: Insight from the phase diagram. Physical Review B, 2016, 94, .	3.2	16
15	Field-induced decays in XXZ triangular-lattice antiferromagnets. Physical Review B, 2016, 94, .	3.2	17
16	Order and excitations in $\text{X}_2\text{Y}_2\text{Z}$ antiferromagnets. Physical Review B, 2015, 92, .	3.2	16
17	Real-space perturbation theory for frustrated magnets: application to magnetization plateaus. Journal of Physics: Conference Series, 2015, 592, 012110.	0.4	20
18	Collective impurity effects in the Heisenberg triangular antiferromagnet. Journal of Physics: Conference Series, 2015, 592, 012112.	0.4	11

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19	Magnetic excitations in the spin-1/2 triangular-lattice antiferromagnet Cs_2CuBr_4 . New Journal of Physics, 2015, 17, 113059.	2.9	12
20	Quantum Selection of Order in an X_2Z Antiferromagnet on a Kagome Lattice. Physical Review Letters, 2014, 113, 237202.	7.8	73
21	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
22	Order from structural disorder in the antiferromagnet Er_2O_7 . Physical Review Letters, 2012, 109, 077204.	3.2	31
23	Nature of finite-temperature transition in anisotropic pyrochlore antiferromagnet Er_2O_7 . Physical Review B, 2014, 89, .	3.2	32
24	Role of dimensionality in spontaneous magnon decay: Easy-plane ferromagnet. Physical Review B, 2014, 89, .	3.2	4
25	Broken discrete symmetries in a frustrated honeycomb antiferromagnet. Physical Review B, 2013, 87, .	3.2	19
26	Dynamical structure factor of the triangular-lattice antiferromagnet. Physical Review B, 2013, 88, .	3.2	92
27	Triangular Antiferromagnet with Nonmagnetic Impurities. Physical Review Letters, 2013, 111, 247201.	7.8	43
28	Colloquium: Spontaneous magnon decays. Reviews of Modern Physics, 2013, 85, 219-242.	45.6	181
29	Quantum stabilization of classically unstable plateau structures. Physical Review B, 2013, 87, .	3.2	34
30	Lifetime of Gapped Excitations in a Collinear Quantum Antiferromagnet. Physical Review Letters, 2012, 109, 097201.	7.8	12
31	Dynamical structure factor of quasi-two-dimensional antiferromagnet in high fields. Physical Review B, 2012, 85, .	3.2	18
32	Quantum Order by Disorder and Accidental Soft Mode in Er_2O_7 . Physical Review Letters, 2012, 109, 077204.	7.8	114
33	Roton-Phonon interactions in Superfluid He_4 . Physical Review Letters, 2012, 109, 077204.	7.8	25
34	Magnetic exchange interactions in BaMn_2As_2 : A case study of the J_1J_2 system. Physical Review B, 2011, 83, 115111.	3.2	131
35	Magnetic phase diagrams of classical triangular and kagome antiferromagnets. Journal of Physics Condensed Matter, 2011, 23, 164209.	1.8	57
36	Spontaneous magnon decays in planar ferromagnet. Europhysics Letters, 2011, 95, 17007.	2.0	7

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37	Interplay of spin and lattice degrees of freedom in the frustrated antiferromagnet CdCr ₂ O ₄ : High-field and temperature-induced anomalies of the elastic constants. <i>Physical Review B</i> , 2011, 83, .	3.2	27
38	Self-consistent spin wave analysis of the magnetization plateau in triangular antiferromagnet. <i>Journal of Physics: Conference Series</i> , 2011, 320, 012011.	0.4	8
39	Magnon pairing in quantum spin nematic. <i>Europhysics Letters</i> , 2010, 92, 37001.	2.0	157
40	Field-induced decay dynamics in square-lattice antiferromagnets. <i>Physical Review B</i> , 2010, 82, .	3.2	27
41	Spin waves in a triangular lattice antiferromagnet: Decays, spectrum renormalization, and singularities. <i>Physical Review B</i> , 2009, 79, .	3.2	180
42	Interplay of anisotropy and frustration: Triple transitions in a triangular-lattice antiferromagnet. <i>Physical Review B</i> , 2009, 80, .	3.2	29
43	Magnetic excitations in the geometrically frustrated pyrochlore antiferromagnet Gd ₂ Sn ₂ O ₇ studied by electron spin resonance. <i>Physical Review B</i> , 2009, 79, .	3.2	22
44	Hydrodynamic relation in a two-dimensional Heisenberg antiferromagnet in a field. <i>Physical Review B</i> , 2009, 79, .	3.2	15
45	Magneto-thermal properties of the spin- <i>s</i> Heisenberg antiferromagnet on the cuboctahedron. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012082.	0.4	20
46	Spin-liquid behavior in a kagome antiferromagnet: Deuterium jarosite. <i>Europhysics Letters</i> , 2008, 81, 17006.	2.0	37
47	Octupolar ordering of classical kagome antiferromagnets in two and three dimensions. <i>Physical Review B</i> , 2008, 78, .	3.2	97
48	Quantum effects in magnetization of f ^{1/2} square lattice antiferromagnet. <i>Physical Review B</i> , 2008, 77, .	3.2	33
49	Lattice gas description of pyrochlore and checkerboard antiferromagnets in a strong magnetic field. <i>Physical Review B</i> , 2007, 75, .	3.2	46
50	Decay of quasiparticles in quantum spin liquids. <i>Physical Review B</i> , 2006, 73, .	3.2	29
51	Magnetic ordering in Gd ₂ Sn ₂ O ₇ : the archetypal Heisenberg pyrochlore antiferromagnet. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L37-L42.	1.8	93
52	Distorted vortex lattice in a tetrahedral superconductor. <i>JETP Letters</i> , 2006, 83, 167-171.	1.4	0
53	Magnetic resonance in the pyrochlore antiferromagnet Gd ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 2006, 73, .	3.2	16
54	Magnon Decay in Noncollinear Quantum Antiferromagnets. <i>Physical Review Letters</i> , 2006, 97, 207202.	7.8	78

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55	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
56	High Field Properties of Geometrically Frustrated Magnets. Progress of Theoretical Physics Supplement, 2005, 160, 361-382.	0.1	70
57	A Monte Carlo study of the first-order transition in a Heisenberg FCC antiferromagnet. JETP Letters, 2005, 81, 236-240.	1.4	32
58	Interplay between spin-density wave and induced local moments in URu ₂ Si ₂ . Physical Review B, 2005, 72, .	3.2	70
59	Single-ion anisotropy in the gadolinium pyrochlores studied by electron paramagnetic resonance. Physical Review B, 2005, 72, .	3.2	35
60	Effective quantum dimer model for trimerized kagomá antiferromagnet. Physical Review B, 2005, 71, .	3.2	18
61	Magnetocaloric effect in pyrochlore antiferromagnet Gd ₂ Ti ₂ O ₇ . Physical Review B, 2005, 71, .	3.2	77
62	Frustrated Antiferromagnets at High Fields: Bose-Einstein Condensation in Degenerate Spectra. Physical Review Letters, 2004, 93, .	7.8	26
63	Ginzburg-Landau theory of vortices in a multigap superconductor. Physical Review B, 2004, 69, .	3.2	211
64	Magnetocaloric effect in one-dimensional antiferromagnets. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P07012.	2.3	101
65	Exact low-temperature behavior of a kagomá antiferromagnet at high fields. Physical Review B, 2004, 70, .	3.2	129
66	An XY checkerboard antiferromagnet in an external field. Journal of Physics Condensed Matter, 2004, 16, S759-S764.	1.8	17
67	Enhanced magnetocaloric effect in frustrated magnets. Physical Review B, 2003, 67, .	3.2	202
68	Field-Induced Transitions in a Kagomá Antiferromagnet. Physical Review Letters, 2002, 88, 057204.	7.8	100
69	Interband Proximity Effect and Nodes of Superconducting Gap in Sr ₂ RuO ₄ . Physical Review Letters, 2001, 87, 057001.	7.8	169
70	Electron-hole liquid in the hexaborides. Physical Review B, 2000, 62, 1492-1495.	3.2	17
71	Field Induced Ordering in Highly Frustrated Antiferromagnets. Physical Review Letters, 2000, 85, 3269-3272.	7.8	93
72	Instability of Antiferromagnetic Magnons in Strong Fields. Physical Review Letters, 1999, 82, 4536-4539.	7.8	77

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73	Ferromagnetism in the hexaborides. Nature, 1999, 402, 251-253.	27.8	140
74	Magnetization curve of a square-lattice Heisenberg antiferromagnet. Physical Review B, 1998, 57, 5013-5016.	3.2	100
75	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
76	Thermal conductivity across a twin boundary in ad-wave superconductor. Physical Review B, 1998, 57, 8560-8565.	3.2	4
77	Electronic States on a Twin Boundary of ad-Wave Superconductor. Physical Review Letters, 1997, 79, 1734-1737.	7.8	24
78	Nearly critical ground state of LaCuO _{2.5} . Physical Review B, 1997, 55, R6117-R6120.	3.2	69
79	Surface bound-state energies $\text{ind}x^2\hat{y}^2$ and other unconventional superconductors. Physical Review B, 1997, 56, 9015-9020.	3.2	7
80	Modeling of Non-Stationary Electrokinetic Effect in a Conductive Crust. Journal of Geomagnetism and Geoelectricity, 1997, 49, 1317-1326.	0.9	8
81	Valence-bond crystal phase of a frustrated spin-1/2 square-lattice antiferromagnet. Physical Review B, 1996, 54, 9007-9010.	3.2	123
82	Phase diagram of unconventional superconductor UPt ₃ in weak crystal field model. European Physical Journal D, 1996, 46, 555-556.	0.4	0
83	Origin of Spin Gap in CaV ₄ O ₉ : Effects of Frustration and Lattice Distortions. Physical Review Letters, 1996, 77, 2558-2561.	7.8	58
84	Magnetic phase diagram of a partially frustrated triangular antiferromagnet: The row model. Physical Review B, 1996, 54, 353-358.	3.2	26
85	Phase diagram of the unconventional superconductor UPt ₃ in the weak-crystal-field model. Physical Review B, 1996, 53, 6591-6604.	3.2	17
86	Static properties of a quasi-one-dimensional antiferromagnet in a magnetic field. Physical Review B, 1996, 53, 3428-3435.	3.2	41
87	Magnetic transitions in triangular antiferromagnets with distorted exchange structure. Physical Review B, 1995, 52, 3511-3520.	3.2	35
88	Differential forms and vector fields with a manifold of singular points. Matematica Contemporanea, 1993, 5, .	0.0	1
89	Possible phase diagrams of superconducting UPt ₃ . Physical Review B, 1990, 42, 2014-2022.	3.2	85