

Oleg Tchernyshyov

List of Publications by Year in descending order

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98
papers

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citations

81900

39
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79698

73
g-index

99
all docs

99
docs citations

99
times ranked

5578
citing authors

#	ARTICLE	IF	CITATIONS
37	Dynamics of artificial spin ice: a continuous honeycomb network. <i>New Journal of Physics</i> , 2012, 14, 035022.	2.9	40
38	Magnetic charge and ordering in kagome spin ice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5718-5737.	3.4	44
39	Inertia and Chiral Edge Modes of a Skyrmion Magnetic Bubble. <i>Physical Review Letters</i> , 2012, 109, 217201.	7.8	165
40	Quantum Strings in Quantum Spin Ice. <i>Physical Review Letters</i> , 2012, 108, 247210.	7.8	41
41	Spin waves in a skyrmion crystal. <i>Physical Review B</i> , 2011, 84, .	3.2	105
42	Sensitivity of the magnetic properties of the ZnCr $\times 2$ O $\times 2$ chain with a Dzyaloshinskii-Moriya term. <i>Physical Review B</i> , 2011, 84, .	3.2	49
43	Spin-Lattice Coupling in Frustrated Antiferromagnets. <i>Springer Series in Solid-state Sciences</i> , 2011, , 269-291.	0.3	3
44	Two-Stage Ordering of Spins in Dipolar Spin Ice on the Kagome Lattice. <i>Physical Review Letters</i> , 2011, 106, 207202.	7.8	157
45	Reducing Disorder in Artificial Kagome Ice. <i>Physical Review Letters</i> , 2011, 107, 167201.	7.8	69
46	Destruction of valence-bond order in a $S = \frac{1}{2}$ Kagome chain with a Dzyaloshinskii-Moriya term. <i>Physical Review B</i> , 2011, 84, .	3.2	49
47	No longer on thin ice. <i>Nature Physics</i> , 2010, 6, 323-324.	16.7	15
48	Structure factor of low-energy spin excitations in a $S = \frac{1}{2}$ Kagome antiferromagnet. <i>Physical Review B</i> , 2010, 81, .	3.2	16
49	Dynamics of Magnetic Charges in Artificial Spin Ice. <i>Physical Review Letters</i> , 2010, 105, 187206.	7.8	83
50	Fermionic Spin Excitations in Two- and Three-Dimensional Antiferromagnets. <i>Physical Review Letters</i> , 2009, 103, 187203.	7.8	28
51	Freedom for the poles. <i>Nature</i> , 2008, 451, 22-23.	27.8	14
52	Bose-Einstein condensation in magnetic insulators. <i>Nature Physics</i> , 2008, 4, 198-204.	16.7	597
53	Dynamics of Domain Walls in Magnetic Nanostrips. <i>Physical Review Letters</i> , 2008, 100, 127204.	7.8	214
54	Dynamics of a vortex domain wall in a magnetic nanostrip: Application of the collective-coordinate approach. <i>Physical Review B</i> , 2008, 78, .	3.2	115

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55	Partial order from disorder in a classical pyrochlore antiferromagnet. Physical Review B, 2008, 78, .	3.2	54
56	Halfvortices in Flat Nanomagnets. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 35-48.	0.3	0
57	Field-driven phase transitions in a quasi-two-dimensional quantum antiferromagnet. New Journal of Physics, 2007, 9, 31-31.	2.9	34
58	Asymmetric Domain Nucleation and Unusual Magnetization Reversal in Ultrathin Co Films with Perpendicular Anisotropy. Physical Review Letters, 2007, 98, 117204.	7.8	50
59	Wrinkling of a bilayer membrane. Physical Review E, 2007, 75, 016609.	2.1	11
60	Stripes in thin ferromagnetic films with out-of-plane anisotropy. Physical Review B, 2007, 75, .	3.2	32
61	Ising Phases of Heisenberg Ladders in a Magnetic Field. Physical Review Letters, 2007, 99, 117201.	7.8	20
62	Vortices in thin ferromagnetic films and the skyrmion number. Physical Review B, 2007, 75, .	3.2	124
63	Topological defects in flat nanomagnets: The magnetostatic limit. Journal of Applied Physics, 2006, 99, 08Q505.	2.5	26
64	Flux expulsion and greedy bosons: Frustrated magnets at large N. Europhysics Letters, 2006, 73, 278-284.	2.0	41
65	Magnetic Bistability and Controllable Reversal of Asymmetric Ferromagnetic Nanorings. Physical Review Letters, 2006, 96, 027205.	7.8	170
66	Composite domain walls in flat nanomagnets: The magnetostatic limit. Journal of Applied Physics, 2006, 99, 08B101.	2.5	20
67	Quantum Criticality in an Organic Magnet. Physical Review Letters, 2006, 96, 257203.	7.8	34
68	Broken parity and a chiral ground state in the frustrated magnet CdCr ₂ O ₄ . Physical Review B, 2006, 74, .	3.2	46
69	Condensation of magnons and spinons in a frustrated ladder. Physical Review B, 2006, 73, .	3.2	40
70	Probing Spin Correlations with Phonons in the Strongly Frustrated Magnet ZnCr ₂ O ₄ . Physical Review Letters, 2005, 94, 137202.	7.8	168
71	Fractional Vortices and Composite Domain Walls in Flat Nanomagnets. Physical Review Letters, 2005, 95, 197204.	7.8	183
72	Antisymmetric Magnetoresistance in Magnetic Multilayers with Perpendicular Anisotropy. Physical Review Letters, 2005, 94, 017203.	7.8	61

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73	Quantum spin liquids: a large-Sroute. Journal of Physics Condensed Matter, 2004, 16, S709-S714.	1.8	10
74	Valence-bond crystal in a{111}slice of the pyrochlore antiferromagnet. Physical Review B, 2004, 69, .	3.2	7
75	Field-induced gap in ordered Heisenberg antiferromagnets. Physical Review B, 2004, 70, .	3.2	22
76	Planar Pyrochlore, Quantum Ice and Sliding Ice. Journal of Statistical Physics, 2004, 116, 755-772.	1.2	41
77	Structural, Orbital, and Magnetic Order in Vanadium Spinel. Physical Review Letters, 2004, 93, 157206.	7.8	155
78	Bond order from disorder in the planar pyrochlore magnet. Physical Review B, 2003, 68, .	3.2	53
79	Order by Distortion and String Modes in Pyrochlore Antiferromagnets. Physical Review Letters, 2002, 88, 067203.	7.8	239
80	Spin-Peierls phases in pyrochlore antiferromagnets. Physical Review B, 2002, 66, .	3.2	142
81	Phase transitions in one dimension and less. Nuclear Physics B, 2002, 639, 411-428.	2.5	3
82	Liquidâ€“gas and other unusual thermal phase transitions in some large-N magnets. Nuclear Physics B, 2002, 639, 429-449.	2.5	15
83	Dispersion of the neutron resonance in cuprate superconductors. Physical Review B, 2001, 63, .	3.2	44
84	Neutron resonance in high-Tc superconductors is not the ĩ€ particle. Physical Review B, 2001, 63, .	3.2	47
85	Search for effective models of stripes in the cuprates. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1791-1792.	1.2	0
86	Holons on a meandering stripe: Quantum numbers. Physical Review B, 2000, 61, 12503-12515.	3.2	9
87	Charged stripes from an alternating static magnetic field. Physical Review B, 2000, 62, 4208-4210.	3.2	2
88	Parity and time-reversal anomaly in a semiconductor. Physical Review B, 2000, 62, 16751-16755.	3.2	7
89	Pseudogap in one dimension. Physical Review B, 1999, 59, 1358-1368.	3.2	22
90	Comment on 'Boson-fermion model beyond the mean-field approximation'. Journal of Physics Condensed Matter, 1998, 10, 3089-3092.	1.8	3

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91	Muon spin relaxation study of the stripe phase order in $\text{La}_{1.6}\text{Nd}_{0.4}\text{SrCuO}_4$ and related 214 cuprates. <i>Physical Review B</i> , 1998, 58, 8760-8772.	3.2	115
92	Pseudogaps: A third peak in the fermion spectral function. <i>Physical Review B</i> , 1998, 57, 2728-2731.	3.2	1
93	NOVEL PHENOMENA IN CHARGED BOSE LIQUID. <i>Modern Physics Letters A</i> , 1998, 13, 987-994.	1.2	4
94	Extended bound states and resonances of two fermions on a periodic lattice. <i>Physical Review B</i> , 1997, 55, 6035-6043.	3.2	21
95	Noninteracting Cooper pairs inside a pseudogap. <i>Physical Review B</i> , 1997, 56, 3372-3380.	3.2	75
96	Cooper pairs as low-energy excitations in the normal state. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1809-1810.	1.2	0
97	Spin-Peierls and spin-glass phases in pure and doped CuGeO_3 : a ^{151}Sm NMR study. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 1687-1688.	2.3	12
98	<title>Fluctuations of laser pulse parameters in photon-echo memory device</title>. , 1993, 1806, 201.		0