Shigeki Onoda

List of Publications by Year
in descending order

51	6,716	201385	205818
papers	citations	27 h-index	48 g-index

52	52	52	6493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roles of easy-plane and easy-axis XXZ anisotropy and bond alternation in a frustrated ferromagnetic spin- 12 chain. Physical Review B, 2020, 101, .	1.1	4
2	First-Principles Design of the Spinel Iridate Ir2O4 for High-Temperature Quantum Spin Ice. Physical Review Letters, 2019, 122, 067201.	2.9	2
3	Quantum Spin Ice under a [111] Magnetic Field: From Pyrochlore to Kagome. Physical Review Letters, 2017, 119, 227204.	2.9	22
4	Numerical Evidence of Quantum Melting of Spin Ice: Quantum-to-Classical Crossover. Physical Review Letters, 2015, 115, 077202.	2.9	64
5	Vector-spin-chirality order in a dimerized frustrated spin-12chain. Physical Review B, 2014, 89, .	1.1	11
6	Static magnetic moments revealed by muon spin relaxation and thermodynamic measurements in the quantum spin ice<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Yb</mml:mtext><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2014, 89, .	1.1	39
7	Symmetry-protected topological phases and transition in a frustrated spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m chain. Physical Review B, 2014, 90, .	1.1	12
8	Generic quantum spin ice. Physical Review B, 2012, 86, .	1.1	168
9	Higgs transition from a magnetic Coulomb liquid to a ferromagnet in Yb2Ti2O7. Nature Communications, 2012, 3, 992.	5.8	170
10	Pushing Bits Through a Spin Wire. Physics Magazine, 2012, 5, .	0.1	2
11	Ground-state phase diagram of a spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math>frustrated ferromagnetic XXZ chain: Haldane dimer phase and gapped/gapless chiral phases. Physical Review B, 2012, 86, .	1.1	86
12	Resistive switching induced on a glass plate by ion beam irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 287, 31-34.	0.6	11
13	Effective quantum pseudospin-1/2 model for Yb pyrochlore oxides. Journal of Physics: Conference Series, 2011, 320, 012065.	0.3	39
14	Quantum fluctuations in the effective pseudospin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mfrac><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr for magnetic pyrochlore oxides. Physical Review B, 2011, 83, .	1.1	149
15	Anisotropic Hysteretic Hall Effect and Magnetic Control of Chiral Domains in the Chiral Spin States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Pr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ir</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 106, 217204.	2.9	53
16	COMPETING PHASES IN SPIN-Â½ J₁-J₂ CHAIN WITH EASY-PLANE ANISOTROPY. Modern Physics Letters B, 2011, 25, 901-908.	1.0	22
17	Anomalous Hall effect. Reviews of Modern Physics, 2010, 82, 1539-1592.	16.4	3,276
18	Time-reversal symmetry breaking and spontaneous Hall effect without magnetic dipole order. Nature, 2010, 463, 210-213.	13.7	352

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19	Chain of Majorana States from Superconducting Dirac Fermions at a Magnetic Domain Wall. Physical Review Letters, 2010, 105, 206404.	2.9	20
20	Quantum Melting of Spin Ice: Emergent Cooperative Quadrupole and Chirality. Physical Review Letters, 2010, 105, 047201.	2.9	139
21	Novel Geometrical Frustration Effects in the Two-Dimensional Triangular-Lattice Antiferromagnet NiGa₂S₄ and Related Compounds. Journal of the Physical Society of Japan, 2010, 79, 011003.	0.7	49
22	Chiral Order and Electromagnetic Dynamics in One-Dimensional Multiferroic Cuprates. Physical Review Letters, 2010, 105, 257205.	2.9	106
23	Skyrmions and anomalous Hall effect in a Dzyaloshinskii-Moriya spiral magnet. Physical Review B, 2009, 80, .	1.1	278
24	Quantum Fluctuations of Chirality in One-Dimensional Spin-1/2 Multiferroics: Gapless Dielectric Response from Phasons and Chiral Solitons. Journal of the Physical Society of Japan, 2008, 77, 123712.	0.7	30
25	Quantum Theory of Multiferroic Helimagnets: Collinear and Helical Phases. Physical Review Letters, 2008, 101, 187207.	2.9	13
26	Quantum transport theory of anomalous electric, thermoelectric, and thermal Hall effects in ferromagnets. Physical Review B, 2008, 77, .	1.1	306
27	Field-induced metal-insulator transition and switching phenomenon in correlated insulators. Physical Review B, 2008, 78, .	1.1	48
28	Nematic and Chiral Order for Planar Spins on a Triangular Lattice. Physical Review Letters, 2008, 101, 167202.	2.9	34
29	Chiral Spin Pairing in Helical Magnets. Physical Review Letters, 2007, 99, 027206.	2.9	27
30	Quantum charge pumping and electric polarization in Anderson insulators. Physical Review B, 2007, 76, .	1.1	9
31	Gauge Covariant Formulation of the Wigner Representation through Deformation Quantization: Application to Keldysh Formalism with an Electromagnetic Field. Progress of Theoretical Physics, 2007, 117, 415-429.	2.0	11
32	Microscopic theory of spin-polarization coupling in multiferroic transition metal oxides. Physical Review B, 2007, 76, .	1.1	279
33	Theory of Non-Equilibirum States Driven by Constant Electromagnetic Fields. Progress of Theoretical Physics, 2006, 116, 61-86.	2.0	37
34	Intrinsic Versus Extrinsic Anomalous Hall Effect in Ferromagnets. Physical Review Letters, 2006, 97, 126602.	2.9	352
35	Bond electronic polarization induced by spin. Physical Review B, 2006, 74, .	1.1	164
36	Disorder-Enhanced Dielectric Response of Nanoscale and Mesoscopic Insulators. Physical Review Letters, 2006, 97, 266807.	2.9	6

#	Article	IF	Citations
37	Spin Hall effect of a conserved current: Conditions for a nonzero spin Hall current. Physical Review B, 2006, 73, .	1.1	68
38	Two-Dimensional Charge Order in Layered 2-1-4 Perovskite Oxides. Physical Review Letters, 2004, 92, 236403.	2.9	7
39	Topological Nature of Polarization and Charge Pumping in Ferroelectrics. Physical Review Letters, 2004, 93, 167602.	2.9	37
40	Spin Chirality Fluctuations and Anomalous Hall Effect in Itinerant Ferromagnets. Physical Review Letters, 2003, 90, 196602.	2.9	64
41	Mott transitions in the two-dimensional half-filled Hubbard model: Correlator projection method with projective dynamical mean-field approximation. Physical Review B, 2003, 67, .	1.1	41
42	Mott Transition vs Multicritical Phenomenon of Superconductivity and Antiferromagnetism â€“Application to Îº-(BEDT-TTF)2Xâ€“. Journal of the Physical Society of Japan, 2003, 72, 2445-2448.	0.7	13
43	Operator projection theory for electron differentiation in underdoped cuprate superconductors. Journal of Physics and Chemistry of Solids, 2002, 63, 2225-2231.	1.9	5
44	Operator Projection Method Applied to the Single-Particle Green's Function in the Hubbard Model. Journal of the Physical Society of Japan, 2001, 70, 632-635.	0.7	16
45	Filling-Control Metal-Insulator Transition in the Hubbard Model Studied by the Operator Projection Method. Journal of the Physical Society of Japan, 2001, 70, 3398-3418.	0.7	31
46	Pseudogap and Kinetic Pairing Under Critical Differentiation of Electrons In Cuprate Superconductors. , 2001, , 69-80.		1
47	Single-Particle Pseudogap in Two-Dimensional Electron Systems. Journal of the Physical Society of Japan, 2000, 69, 312-315.	0.7	6
48	How do we understand the single-particle pseudogap in high-Tc cuprates?. Physica B: Condensed Matter, 2000, 281-282, 792-793.	1.3	0
49	dx2â^'y2-wave pairing fluctuations and spin pseudogap in high-Tc cuprates. Physica B: Condensed Matter, 2000, 284-288, 671-672.	1.3	0
50	Magnetic Properties of the Hubbard Model on Three-Dimensional Lattices: Fluctuation-Exchange and Two-Particle Self-Consistent Studies. Journal of the Physical Society of Japan, 2000, 69, 785-795.	0.7	16
51	dx2-y2Wave Pairing Fluctuations and Pseudo Spin Gap in Two-Dimensional Electron Systems. Journal of the Physical Society of Japan, 1999, 68, 2762-2772.	0.7	21