

Shigeki Onoda

List of Publications by Year in descending order

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51
papers

6,716
citations

201385

27
h-index

205818

48
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52
all docs

52
docs citations

52
times ranked

6493
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Hall effect. <i>Reviews of Modern Physics</i> , 2010, 82, 1539-1592.	16.4	3,276
2	Intrinsic Versus Extrinsic Anomalous Hall Effect in Ferromagnets. <i>Physical Review Letters</i> , 2006, 97, 126602.	2.9	352
3	Time-reversal symmetry breaking and spontaneous Hall effect without magnetic dipole order. <i>Nature</i> , 2010, 463, 210-213.	13.7	352
4	Quantum transport theory of anomalous electric, thermoelectric, and thermal Hall effects in ferromagnets. <i>Physical Review B</i> , 2008, 77, .	1.1	306
5	Microscopic theory of spin-polarization coupling in multiferroic transition metal oxides. <i>Physical Review B</i> , 2007, 76, .	1.1	279
6	Skyrmions and anomalous Hall effect in a Dzyaloshinskii-Moriya spiral magnet. <i>Physical Review B</i> , 2009, 80, .	1.1	278
7	Higgs transition from a magnetic Coulomb liquid to a ferromagnet in Yb ₂ Ti ₂ O ₇ . <i>Nature Communications</i> , 2012, 3, 992.	5.8	170
8	Generic quantum spin ice. <i>Physical Review B</i> , 2012, 86, .	1.1	168
9	Bond electronic polarization induced by spin. <i>Physical Review B</i> , 2006, 74, .	1.1	164
10	Quantum fluctuations in the effective pseudospin- $\frac{1}{2}$ for magnetic pyrochlore oxides. <i>Physical Review B</i> , 2011, 83, .	1.1	149
11	Quantum Melting of Spin Ice: Emergent Cooperative Quadrupole and Chirality. <i>Physical Review Letters</i> , 2010, 105, 047201.	2.9	139
12	Chiral Order and Electromagnetic Dynamics in One-Dimensional Multiferroic Cuprates. <i>Physical Review Letters</i> , 2010, 105, 257205.	2.9	106
13	Ground-state phase diagram of a spin- $\frac{1}{2}$ frustrated ferromagnetic XXZ chain: Haldane dimer phase and gapped/gapless chiral phases. <i>Physical Review B</i> , 2012, 86, .	1.1	86
14	Spin Hall effect of a conserved current: Conditions for a nonzero spin Hall current. <i>Physical Review B</i> , 2006, 73, .	1.1	68
15	Spin Chirality Fluctuations and Anomalous Hall Effect in Itinerant Ferromagnets. <i>Physical Review Letters</i> , 2003, 90, 196602.	2.9	64
16	Numerical Evidence of Quantum Melting of Spin Ice: Quantum-to-Classical Crossover. <i>Physical Review Letters</i> , 2015, 115, 077202.	2.9	64
17	Anisotropic Hysteretic Hall Effect and Magnetic Control of Chiral Domains in the Chiral Spin States of $\text{Pr}_2\text{Ir}_2\text{O}_7$. <i>Physical Review Letters</i> , 2011, 106, 217204.	2.9	53
18	Novel Geometrical Frustration Effects in the Two-Dimensional Triangular-Lattice Antiferromagnet NiGa_2S_4 and Related Compounds. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 011003.	0.7	49

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19	Field-induced metal-insulator transition and switching phenomenon in correlated insulators. Physical Review B, 2008, 78, .	1.1	48
20	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
21	Effective quantum pseudospin-1/2 model for Yb pyrochlore oxides. Journal of Physics: Conference Series, 2011, 320, 012065.	0.3	39
22	Static magnetic moments revealed by muon spin relaxation and thermodynamic measurements in the quantum spin ice <small>xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Yb</mml:mtext><mml:mn>2</mml:mn></mml:msub></small></small>	1.1	39
23	Topological Nature of Polarization and Charge Pumping in Ferroelectrics. Physical Review Letters, 2004, 93, 167602.	2.9	37
24	Theory of Non-Equilibrium States Driven by Constant Electromagnetic Fields. Progress of Theoretical Physics, 2006, 116, 61-86.	2.0	37
25	Nematic and Chiral Order for Planar Spins on a Triangular Lattice. Physical Review Letters, 2008, 101, 167202.	2.9	34
26	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
27	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
28	Chiral Spin Pairing in Helical Magnets. Physical Review Letters, 2007, 99, 027206.	2.9	27
29	COMPETING PHASES IN SPIN- $\frac{1}{2}$ J ₁ -J ₂ CHAIN WITH EASY-PLANE ANISOTROPY. Modern Physics Letters B, 2011, 25, 901-908.	1.0	22
30	Quantum Spin Ice under a [111] Magnetic Field: From Pyrochlore to Kagome. Physical Review Letters, 2017, 119, 227204.	2.9	22
31	dx ² -y ² Wave 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
32	Chain of Majorana States from Superconducting Dirac Fermions at a Magnetic Domain Wall. Physical Review Letters, 2010, 105, 206404.	2.9	20
33	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
34	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
35	Mott Transition vs Multicritical Phenomenon of Superconductivity and Antiferromagnetism <small>â€œApplication to Î²-(BEDT-TTF)₂Xâ€œ</small> . Journal of the Physical Society of Japan, 2003, 72, 2445-2448.	0.7	13
36	Quantum Theory of Multiferroic Helimagnets: Collinear and Helical Phases. Physical Review Letters, 2008, 101, 187207.	2.9	13

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37	Symmetry-protected topological phases and transition in a frustrated spin- $\frac{1}{2}$ chain. Physical Review B, 2014, 90, .		
38	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
39	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
40	Vector-spin-chirality order in a dimerized frustrated spin- $\frac{1}{2}$ chain. Physical Review B, 2014, 89, .	1.1	11
41	Quantum charge pumping and electric polarization in Anderson insulators. Physical Review B, 2007, 76, .	1.1	9
42	Two-Dimensional Charge Order in Layered 2-1-4 Perovskite Oxides. Physical Review Letters, 2004, 92, 236403.	2.9	7
43	Single-Particle Pseudogap in Two-Dimensional Electron Systems. Journal of the Physical Society of Japan, 2000, 69, 312-315.	0.7	6
44	Disorder-Enhanced Dielectric Response of Nanoscale and Mesoscopic Insulators. Physical Review Letters, 2006, 97, 266807.	2.9	6
45	Operator projection theory for electron differentiation in underdoped cuprate superconductors. Journal of Physics and Chemistry of Solids, 2002, 63, 2225-2231.	1.9	5
46	Roles of easy-plane and easy-axis XXZ anisotropy and bond alternation in a frustrated ferromagnetic spin- $\frac{1}{2}$ chain. Physical Review B, 2020, 101, .	1.1	4
47	Pushing Bits Through a Spin Wire. Physics Magazine, 2012, 5, .	0.1	2
48	First-Principles Design of the Spinel Iridate Ir ₂ O ₄ for High-Temperature Quantum Spin Ice. Physical Review Letters, 2019, 122, 067201.	2.9	2
49	Pseudogap and Kinetic Pairing Under Critical Differentiation of Electrons In Cuprate Superconductors. , 2001, , 69-80.		1
50	How do we understand the single-particle pseudogap in high-T _c cuprates?. Physica B: Condensed Matter, 2000, 281-282, 792-793.	1.3	0
51	$d_{x^2-y^2}$ -wave pairing fluctuations and spin pseudogap in high-T _c cuprates. Physica B: Condensed Matter, 2000, 284-288, 671-672.	1.3	0