

Satoshi Okamoto

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136
papers

6,199
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41
h-index

76
g-index

146
ext. papers

7,150
ext. citations

6.3
avg, IF

6.07
L-index

#	Paper	IF	Citations
136	Electronic reconstruction at an interface between a Mott insulator and a band insulator. <i>Nature</i> , 2004 , 428, 630-3	50.4	453
135	Interface engineering of quantum Hall effects in digital transition metal oxide heterostructures. <i>Nature Communications</i> , 2011 , 2, 596	17.4	344
134	Interface ferromagnetism and orbital reconstruction in BiFeO ₃ -La(0.7)Sr(0.3)MnO ₃ heterostructures. <i>Physical Review Letters</i> , 2010 , 105, 027201	7.4	311
133	Suppression of octahedral tilts and associated changes in electronic properties at epitaxial oxide heterostructure interfaces. <i>Physical Review Letters</i> , 2010 , 105, 087204	7.4	288
132	Stacking-Dependent Magnetism in Bilayer CrI. <i>Nano Letters</i> , 2018 , 18, 7658-7664	11.5	270
131	Magnetic ground state of semiconducting transition-metal trichalcogenide monolayers. <i>Physical Review B</i> , 2015 , 91,	3.3	248
130	Transition between Two Ferromagnetic States Driven by Orbital Ordering in La _{0.88} Sr _{0.12} MnO ₃ . <i>Physical Review Letters</i> , 1999 , 82, 4328-4331	7.4	241
129	Lattice relaxation in oxide heterostructures: LaTiO ₃ /SrTiO ₃ superlattices. <i>Physical Review Letters</i> , 2006 , 97, 056802	7.4	214
128	Observation of orbital waves as elementary excitations in a solid. <i>Nature</i> , 2001 , 410, 180-3	50.4	181
127	Dimensional-crossover-driven metal-insulator transition in SrVO ₃ ultrathin films. <i>Physical Review Letters</i> , 2010 , 104, 147601	7.4	140
126	Spin and orbital Ti magnetism at LaMnO ₃ /SrTiO ₃ interfaces. <i>Nature Communications</i> , 2010 , 1, 82	17.4	138
125	Possible interaction-driven topological phases in (111) bilayers of LaNiO ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	124
124	Spin Nernst Effect of Magnons in Collinear Antiferromagnets. <i>Physical Review Letters</i> , 2016 , 117, 217202	7.4	113
123	Spatial inhomogeneity and strong correlation physics: A dynamical mean-field study of a model Mott-insulator/band-insulator heterostructure. <i>Physical Review B</i> , 2004 , 70,	3.3	110
122	Spin-current probe for phase transition in an insulator. <i>Nature Communications</i> , 2016 , 7, 12670	17.4	105
121	Quantum confinement of Mott electrons in ultrathin LaNiO ₃ /LaAlO ₃ superlattices. <i>Physical Review B</i> , 2011 , 83,	3.3	105
120	Oxide heterostructures for efficient solar cells. <i>Physical Review Letters</i> , 2013 , 110, 078701	7.4	92

119	Magnetic order and dynamics in an orbitally degenerate ferromagnetic insulator. <i>Physical Review Letters</i> , 2002 , 89, 167202	7.4	88
118	Continuous metal-insulator transition of the antiferromagnetic perovskite NaOsO ₃ . <i>Physical Review B</i> , 2009 , 80,	3.3	87
117	Electron doping of cuprates via interfaces with manganites. <i>Physical Review B</i> , 2007 , 76,	3.3	87
116	Tuning the competition between ferromagnetism and antiferromagnetism in a half-doped manganite through magnetoelectric coupling. <i>Physical Review Letters</i> , 2013 , 111, 127601	7.4	84
115	Photoemission from buried interfaces in SrTiO ₃ /LaTiO ₃ superlattices. <i>Physical Review Letters</i> , 2006 , 97, 057601	7.4	82
114	Quantum behavior of orbitals in ferromagnetic titanates: novel orderings and excitations. <i>Physical Review Letters</i> , 2002 , 89, 167201	7.4	81
113	Evolution of structural, magnetic, and transport properties in MnBi ₂ SbTe ₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	77
112	Electronic and magnetic reconstructions in La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ heterostructures: a case of enhanced interlayer coupling controlled by the interface. <i>Physical Review Letters</i> , 2011 , 106, 147205	7.4	73
111	Orbital ordering in LaMnO ₃ : Electron-electron and electron-lattice interactions. <i>Physical Review B</i> , 2002 , 65,	3.3	67
110	Doped Mott insulators in (111) bilayers of perovskite transition-metal oxides with a strong spin-orbit coupling. <i>Physical Review Letters</i> , 2013 , 110, 066403	7.4	66
109	Orbital degree of freedom and phase separation in ferromagnetic manganites at finite temperatures. <i>Physical Review B</i> , 2000 , 61, 451-458	3.3	64
108	Theory of Mott insulator-band insulator heterostructures. <i>Physical Review B</i> , 2004 , 70,	3.3	62
107	Gate-Controllable Magneto-optic Kerr Effect in Layered Collinear Antiferromagnets. <i>Physical Review Letters</i> , 2016 , 117, 267203	7.4	60
106	Correlation effects in (111) bilayers of perovskite transition-metal oxides. <i>Physical Review B</i> , 2014 , 89,	3.3	55
105	Reversible electric-field control of magnetization at oxide interfaces. <i>Nature Communications</i> , 2014 , 5, 4215	17.4	54
104	Global phase diagram of a doped Kitaev-Heisenberg model. <i>Physical Review B</i> , 2013 , 87,	3.3	53
103	Interplay of Spin and Orbital Orderings in Perovskite Manganites. <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 957-960	1.5	52
102	Gradual localization of Ni 3d states in LaNiO ₃ ultrathin films induced by dimensional crossover. <i>Physical Review B</i> , 2013 , 87,	3.3	48

101	Atomically resolved spectroscopic study of Sr ₂ IrO ₄ : experiment and theory. <i>Scientific Reports</i> , 2013 , 3, 3073	4.9	48
100	Dynamical electronic nematicity from Mott physics. <i>Physical Review B</i> , 2010 , 82,	3.3	47
99	Enhanced superconductivity in superlattices of high-T _c cuprates. <i>Physical Review Letters</i> , 2008 , 101, 156401	7.4	47
98	Theory of orbital state and spin interactions in ferromagnetic titanates. <i>Physical Review B</i> , 2003 , 68,	3.3	47
97	Dynamical mean-field study of model double-exchange superlattices. <i>Physical Review B</i> , 2006 , 73,	3.3	46
96	Band insulator to Mott insulator transition in a bilayer Hubbard model. <i>Physical Review B</i> , 2007 , 75,	3.3	42
95	Charge Transfer in Iridate-Manganite Superlattices. <i>Nano Letters</i> , 2017 , 17, 2126-2130	11.5	41
94	Nonlinear transport through strongly correlated two-terminal heterostructures: a dynamical mean-field approach. <i>Physical Review Letters</i> , 2008 , 101, 116807	7.4	39
93	Unconventional proximity effect and inverse spin-switch behavior in a model manganite-cuprate-manganite trilayer system. <i>Physical Review Letters</i> , 2010 , 105, 256804	7.4	37
92	NaV ₂ O ₄ : a quasi-1D metallic antiferromagnet with half-metallic chains. <i>Physical Review Letters</i> , 2007 , 99, 196601	7.4	35
91	Correlated insulating states at fractional fillings of the WS ₂ /WSe ₂ moiré lattice. <i>Nature Physics</i> , 2021 , 17, 715-719	16.2	35
90	Magnetic interaction at an interface between manganite and other transition metal oxides. <i>Physical Review B</i> , 2010 , 82,	3.3	33
89	Pressure Effects in Manganites with Layered Perovskite Structure. <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 2965-2968	1.5	30
88	Ferromagnetic insulating phase in Pr _{1-x} CaxMnO ₃ . <i>Physical Review B</i> , 2004 , 69,	3.3	30
87	Interface ordering and phase competition in a model Mott-insulator-band-insulator heterostructure. <i>Physical Review B</i> , 2005 , 72,	3.3	30
86	Orbital structure and magnetic ordering in layered manganites: Universal correlation and its mechanism. <i>Physical Review B</i> , 2001 , 63,	3.3	29
85	Interrelation between orbital polarization and magnetic structure in bilayer manganites. <i>Physical Review B</i> , 1999 , 59, R14153-R14156	3.3	29
84	Thermal Hall Effect Induced by Magnon-Phonon Interactions. <i>Physical Review Letters</i> , 2019 , 123, 167202	7.4	28

83	Nonequilibrium transport and optical properties of model metal-Mott-insulator-metal heterostructures. <i>Physical Review B</i> , 2007 , 76,	3-3	27
82	Pressure-induced insulator-metal transition in a bilayer manganite: Pressure control of orbital stability. <i>Physical Review B</i> , 2000 , 62, 17-20	3-3	27
81	Noncollinear magnetic phases of a triangular-lattice antiferromagnet and of doped CuFeO ₂ . <i>Physical Review B</i> , 2010 , 81,	3-3	26
80	Electron-lattice coupling, orbital stability, and the phase diagram of Ca _{2-x} Sr _x RuO ₄ . <i>Physical Review B</i> , 2004 , 70,	3-3	25
79	Topological Hall effect and emergent skyrmion crystal at manganite-iridate oxide interfaces. <i>Physical Review B</i> , 2019 , 100,	3-3	24
78	Interfacial tuning of chiral magnetic interactions for large topological Hall effects in LaMnO/SrIrO heterostructures. <i>Science Advances</i> , 2020 , 6, eaaz3902	14-3	24
77	Jeff=12 Mott spin-orbit insulating state close to the cubic limit in Ca ₄ IrO ₆ . <i>Physical Review B</i> , 2014 , 89,	3-3	23
76	Experimental quest for orbital waves. <i>Nature</i> , 2002 , 418, 40-40	50-4	23
75	Spin injection and spin transport in paramagnetic insulators. <i>Physical Review B</i> , 2016 , 93,	3-3	22
74	Fictive impurity models: An alternative formulation of the cluster dynamical mean-field method. <i>Physical Review B</i> , 2003 , 68,	3-3	22
73	Dimensionality control of d-orbital occupation in oxide superlattices. <i>Scientific Reports</i> , 2014 , 4, 6124	4-9	20
72	Anomalous mass enhancement in strongly correlated quantum wells. <i>Physical Review B</i> , 2011 , 84,	3-3	18
71	Phase transition in perovskite manganites with orbital degree of freedom. <i>Physical Review B</i> , 2000 , 61, 14647-14655	3-3	17
70	Magnetic order in single crystals of Na ₃ Co ₂ SbO ₆ with a honeycomb arrangement of 3d ⁷ Co ²⁺ ions. <i>Physical Review Materials</i> , 2019 , 3,	3-2	17
69	Dynamical and thermal magnetic properties of the Kitaev spin liquid candidate β -RuCl ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	16
68	Deriving models for the Kitaev spin-liquid candidate material β -RuCl ₃ from first principles. <i>Physical Review B</i> , 2019 , 100,	3-3	16
67	Raman scattering by orbital waves in perovskite LaMnO ₃ . <i>Physica B: Condensed Matter</i> , 1997 , 237-238, 51-53	2-8	16
66	Charge transfer in heterostructures of strongly correlated materials. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 264002	1-8	16

65	Inverse Jahn-Teller transition in bimetallic oxalates. <i>Physical Review Letters</i> , 2008 , 101, 116402	7.4	16
64	Reconsideration of the lattice effect on the charge-ordering transition of doped manganites. <i>Physical Review B</i> , 2000 , 62, 80-83	3.3	16
63	Spin-Nernst effect in the paramagnetic regime of an antiferromagnetic insulator. <i>Physical Review B</i> , 2018 , 98,	3.3	15
62	Microscopic inhomogeneity and superconducting properties of a two-dimensional Hubbard model for high-Tc cuprates. <i>Physical Review B</i> , 2010 , 81,	3.3	15
61	Transition-Metal Oxide (111) Bilayers. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 041006	1.5	14
60	Stabilization of weak ferromagnetism by strong magnetic response to epitaxial strain in multiferroic BiFeO ₃ . <i>Scientific Reports</i> , 2015 , 5, 12969	4.9	14
59	Molecule-based magnets with diruthenium building blocks in two and three dimensions. <i>Physical Review B</i> , 2009 , 80,	3.3	14
58	Fictive-impurity approach to dynamical mean-field theory: A strong-coupling investigation. <i>Physical Review B</i> , 2007 , 75,	3.3	14
57	Strain-induced topological transition in SrRu ₂ O ₆ and CaOs ₂ O ₆ . <i>Physical Review B</i> , 2016 , 93,	3.3	13
56	Stabilization Mechanisms of LaFeO ₃ (010) Surfaces Determined with First Principles Calculations. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1931-1939	3.8	13
55	Electronic, magnetic, and thermodynamic properties of the kagome layer compound FeSn. <i>Physical Review Materials</i> , 2019 , 3,	3.2	13
54	Localized-itinerant dichotomy and unconventional magnetism in SrRuO. <i>Scientific Reports</i> , 2017 , 7, 11742	4.9	12
53	Magnetic Frustration Driven by Itinerancy in Spinel CoVO. <i>Scientific Reports</i> , 2017 , 7, 17129	4.9	12
52	Theory of Raman scattering from orbital excitations in manganese oxides. <i>Physical Review B</i> , 2002 , 66,	3.3	12
51	Field-induced orbital order-disorder transition in an A-type antiferromagnetic manganite: High-field study of Nd _{0.45} Sr _{0.55} MnO ₃ . <i>Physical Review B</i> , 2001 , 65,	3.3	12
50	Realizing gapped surface states in the magnetic topological insulator MnBi ₂ SbTe ₄ . <i>Physical Review B</i> , 2020 , 102,	3.3	12
49	Tuning Magnetic Soliton Phase via Dimensional Confinement in Exfoliated 2D CrNbS Thin Flakes. <i>Nano Letters</i> , 2018 , 18, 4023-4028	11.5	11
48	Ground-state and spin-wave dynamics in brownmillerite SrCoO(2.5)--a combined hybrid functional and LSDA + U study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 036004	1.8	11

47	Benchmarkings for a semiclassical impurity solver for dynamical-mean-field theory: Self-energies and magnetic transitions of the single-orbital Hubbard model. <i>Physical Review B</i> , 2005 , 71,	3.3	11
46	Transparent conducting oxides: a doped superlattice approach. <i>Scientific Reports</i> , 2014 , 4, 6021	4.9	10
45	Giant antiferromagnetically coupled moments in a molecule-based magnet with interpenetrating lattices. <i>Physical Review B</i> , 2009 , 80,	3.3	10
44	Nonmonotonic temperature dependence of thermopower in strongly correlated electron systems. <i>Physical Review B</i> , 2011 , 84,	3.3	10
43	Accuracy of the microcanonical Lanczos method to compute real-frequency dynamical spectral functions of quantum models at finite temperatures. <i>Physical Review E</i> , 2018 , 97, 043308	2.4	9
42	Spontaneous fourfold-symmetry breaking driven by electron-lattice coupling and strong correlations in high-Tc cuprates. <i>Physical Review B</i> , 2012 , 86,	3.3	9
41	Spin-orbit driven magnetic insulating state with Jeff=12 character in a 4d oxide. <i>Physical Review B</i> , 2015 , 92,	3.3	8
40	Flat bands in the CoSn-type compounds. <i>Physical Review B</i> , 2020 , 102,	3.3	8
39	Spin-orbit coupling and Jahn-Teller distortion in bimetallic oxalates. <i>Polyhedron</i> , 2009 , 28, 1740-1745	2.7	6
38	Structural, electronic, and magnetic properties of bulk and epitaxial LaCoO3 through diffusion Monte Carlo. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
37	Planar topological Hall effect from conical spin spirals. <i>Physical Review B</i> , 2020 , 102,	3.3	6
36	Large intrinsic anomalous Hall effect in SrIrO induced by magnetic proximity effect. <i>Nature Communications</i> , 2021 , 12, 3283	17.4	6
35	Witnessing entanglement in quantum magnets using neutron scattering. <i>Physical Review B</i> , 2021 , 103,	3.3	6
34	Robust Ferromagnetism in Highly Strained SrCoO3 Thin Films. <i>Physical Review X</i> , 2020 , 10,	9.1	5
33	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric Sr _{1-y} Mn _{1-z} Sb ₂ (y~0.07,z~0.02). <i>Physical Review B</i> , 2019 , 100,	3.3	5
32	Orbital stability in the spin-ordered phase of bilayer manganites as investigated by neutron-diffraction measurements. <i>Physical Review B</i> , 2000 , 61, 11270-11273	3.3	5
31	Flat bands and ferrimagnetic order in electronically correlated dice-lattice ribbons. <i>Physical Review B</i> , 2020 , 102,	3.3	5
30	Influence of chemical composition and crystallographic orientation on the interfacial magnetism in BiFeO3/La _{1-x} Sr _x MnO3 superlattices. <i>Physical Review Materials</i> , 2018 , 2,	3.2	5

29	Anisotropic antiferromagnetic order in the spin-orbit coupled trigonal-lattice Ca ₂ Sr ₂ IrO ₆ . <i>Physical Review B</i> , 2018 , 97,	3.3	4
28	Critical Spin Fluctuation Mechanism for the Spin Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 196603	7.4	4
27	Resummation of the Holstein-Primakoff expansion and differential equation approach to operator square roots. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
26	Search for nonreciprocal magnons in MnPS ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	4
25	Correlated oxide Dirac semimetal in the extreme quantum limit. <i>Science Advances</i> , 2021 , 7, eabf9631	14.3	4
24	Strain effects on the electronic properties in Edoped oxide superlattices. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 085303	3	3
23	Interface phenomena in correlated electron systems. <i>Physica B: Condensed Matter</i> , 2005 , 359-361, 1378-1380		3
22	Electron Confinement and Magnetism of (LaTiO)/(SrTiO) Heterostructure: A Diffusion Quantum Monte Carlo Study. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 643-650	6.4	3
21	Static and dynamic spin properties in the quantum triangular lattice antiferromagnet Ag ₂ CoO ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
20	A Catastrophic Charge Density Wave in BaFe ₂ Al ₉ . <i>Chemistry of Materials</i> , 2021 , 33, 2855-2863	9.6	3
19	Quantifying and Controlling Entanglement in the Quantum Magnet Cs ₂ CoCl ₄ . <i>Physical Review Letters</i> , 2021 , 127, 037201	7.4	3
18	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co ₃ Sn ₂ S ₂ . <i>Physical Review Letters</i> , 2021 , 127, 117201	7.4	3
17	Surface magnetic phase transition of the double-exchange ferromagnet: Schwinger-boson mean-field study. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 355601	1.8	2
16	Flipping handedness in ferrimagnets. <i>Nature Materials</i> , 2020 , 19, 929-930	27	2
15	Signatures of a liquid-crystal transition in spin-wave excitations of skyrmions. <i>Communications Physics</i> , 2020 , 3,	5.4	2
14	Skyrmion control of Majorana states in planar Josephson junctions. <i>Communications Physics</i> , 2021 , 4,	5.4	2
13	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. <i>Nature Communications</i> , 2021 , 12, 171	17.4	2
12	Spiral spin state with open boundary conditions in a magnetic field. <i>Physical Review B</i> , 2017 , 96,	3.3	1

- 11 Magnetic and orbital excitations in manganese oxides. *Physica B: Condensed Matter*, **1997**, 230-232, 1058-1060 1
- 10 Field induced transition from metal to insulator in the colossal magneto-resistance manganites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1999**, 63, 151-158 3.1 1
- 9 Magnetic switching in Weyl semimetal-superconductor heterostructures. *Physical Review B*, **2020**, 102, 3.3 1
- 8 Giant phonon anomalies in the proximate Kitaev quantum spin liquid RuCl_3 . *Nature Communications*, **2021**, 12, 3513 17.4 0
- 7 Spin and orbital orderings in perovskite manganites. *Physica B: Condensed Matter*, **1997**, 237-238, 48-50 2.8
- 6 Two Ferromagnetic States in Magnetoresistive Manganites-First Order Transition Driven by Orbitals **2002**, 57-70
- 5 Dynamics of orbital degree of freedom in transition-metal oxides. *Journal of Physics and Chemistry of Solids*, **2002**, 63, 1343-1346 3.9
- 4 Theory of Orbital Dynamics and their Observation by Polarized Light/X-Ray Scatterings. *Journal of the Physical Society of Japan*, **2002**, 71, 60-63 1.5
- 3 Spin and orbital orderings and their excitations in perovskite Mn oxides. *European Physical Journal D*, **1996**, 46, 3225-3231
- 2 Magnetism of Complex Oxide Interfaces **2019**, 457-487
- 1 Nanosession: Spin Tunneling Systems 311-322