

# Satoshi Okamoto

## List of Publications by Year in descending order

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142  
papers

7,989  
citations

44069

48  
h-index

51608

86  
g-index

146  
all docs

146  
docs citations

146  
times ranked

8079  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction of interaction parameters for $\hat{H}_{\pm}$ from neutron data using machine learning. Physical Review Research, 2022, 4, .		10
2	Thermal Hall effect in the Kitaev-Heisenberg system with spin-phonon coupling. Physical Review B, 2022, 106, .	3.2	7
3	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	12.8	24
4	Search for nonreciprocal magnons in MnPS <sub>3</sub> . Physical Review B, 2021, 103, .	3.2	6
5	Correlated insulating states at fractional fillings of the WS <sub>2</sub> /WSe <sub>2</sub> moiré lattice. Nature Physics, 2021, 17, 715-719.	16.7	157
6	A Catastrophic Charge Density Wave in BaFe <sub>2</sub> Al <sub>9</sub> . Chemistry of Materials, 2021, 33, 2855-2863.	6.7	9
7	Emergent Ferromagnetism with Fermi-Liquid Behavior in Proton Intercalated CaRuO <sub>3</sub> . Physical Review X, 2021, 11, .	8.9	10
8	Large intrinsic anomalous Hall effect in SrIrO <sub>3</sub> induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
9	Giant phonon anomalies in the proximate Kitaev quantum spin liquid $\hat{I}\pm$ -RuCl <sub>3</sub> . Nature Communications, 2021, 12, 3513.	12.8	20
10	Witnessing entanglement in quantum magnets using neutron scattering. Physical Review B, 2021, 103, .	3.2	39
11	Quantifying and Controlling Entanglement in the Quantum Magnet Cs <sub>2</sub> YbCl <sub>6</sub> . Physical Review Letters, 2021, 127, 037201.	7.8	33
12	Skyrmion control of Majorana states in planar Josephson junctions. Communications Physics, 2021, 4, .	5.3	21
13	Correlated oxide Dirac semimetal in the extreme quantum limit. Science Advances, 2021, 7, eabf9631.	10.3	19
14	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co <sub>3</sub> Mn <sub>2</sub> S <sub>4</sub> . Physical Review Letters, 2021, 127, 117201.	7.8	26
15	Competing energetic states in $\hat{I}\pm$ -Fe <sub>2</sub> WO <sub>6</sub> with strong spin-charge-lattice coupling. Physical Review B, 2021, 104, .	3.2	0
16	Multitude of topological phase transitions in bipartite dice and Lieb lattices with interacting electrons and Rashba coupling. Physical Review B, 2021, 104, .	3.2	8
17	Semi-Dirac and Weyl fermions in transition metal oxides. Physical Review B, 2021, 104, .	3.2	8
18	Electron Confinement and Magnetism of (LaTiO <sub>3</sub> ) <sub>1</sub> (SrTiO <sub>3</sub> ) <sub>5</sub> Heterostructure: A Diffusion Quantum Monte Carlo Study. Journal of Chemical Theory and Computation, 2020, 16, 643-650.	5.3	4



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37	Longitudinal order in single crystals of $\text{NaMn}_3\text{O}_7$ with a honeycomb arrangement of $\text{Mn}^{2+}$ ions. Physical Review Materials, 2019, 3, .	2.4	49
38	Electronic, magnetic, and thermodynamic properties of the kagome layer compound FeSn. Physical Review Materials, 2019, 3, .	2.4	49
39	Structural, electronic, and magnetic properties of bulk and epitaxial $\text{LaCoO}_3$ through diffusion Monte Carlo. Physical Review Materials, 2019, 3, .	2.4	13
40	Transition-Metal Oxide (111) Bilayers. Journal of the Physical Society of Japan, 2018, 87, 041006.	1.6	20
41	Tuning Magnetic Soliton Phase via Dimensional Confinement in Exfoliated 2D $\text{Cr}_2\text{S}_3$ Thin Flakes. Nano Letters, 2018, 18, 4023-4028.	9.1	19
42	Accuracy of the microcanonical Lanczos method to compute real-frequency dynamical spectral functions of quantum models at finite temperatures. Physical Review E, 2018, 97, 043308.	2.1	16
43	Stacking-Dependent Magnetism in Bilayer $\text{CrI}_3$ . Nano Letters, 2018, 18, 7658-7664.	9.1	475
44	Spin-Nernst effect in the paramagnetic regime of an antiferromagnetic insulator. Physical Review B, 2018, 98, .	3.2	21
45	Anisotropic antiferromagnetic order in the spin-orbit coupled trigonal-lattice $\text{CaMn}_2\text{O}_7$ . Influence of chemical composition and crystallographic orientation on the interfacial magnetism in $\text{CaMn}_2\text{O}_7$ .	2.4	7
46	Charge Transfer in Iridate-Manganite Superlattices. Nano Letters, 2017, 17, 2126-2130.	9.1	53
47	Localized-itinerant dichotomy and unconventional magnetism in $\text{SrRu}_2\text{O}_6$ . Scientific Reports, 2017, 7, 11742.	3.3	13
48	Spiral spin state with open boundary conditions in a magnetic field. Physical Review B, 2017, 96, .	3.2	1
49	Magnetic Frustration Driven by Itinerancy in Spinel $\text{CoV}_2\text{O}_4$ . Scientific Reports, 2017, 7, 17129.	3.3	24
50	Gate-Controllable Magneto-optic Kerr Effect in Layered Collinear Antiferromagnets. Physical Review Letters, 2016, 117, 267203.	7.8	93
51	Strain-induced topological transition in $\text{SrRu}_2\text{O}_6$ and $\text{CaOs}_2\text{O}_7$ . Physical Review B, 2016, 93, .	3.2	14
52	Spin injection and spin transport in paramagnetic insulators. Physical Review B, 2016, 93, .	3.2	36
53	Spin Nernst Effect of Magnons in Collinear Antiferromagnets. Physical Review Letters, 2016, 117, 217202.	7.8	171

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55	Spin-current probe for phase transition in an insulator. Nature Communications, 2016, 7, 12670.	12.8	148
56	Magnetic ground state of semiconducting transition-metal trichalcogenide monolayers. Physical Review B, 2015, 91, .	3.2	352
57	Spin-orbit driven magnetic insulating state with $J_{\text{eff}} < J$ in a $d^4$ system. Physical Review B, 2015, 92, .	3.2	10
58	Stabilization of weak ferromagnetism by strong magnetic response to epitaxial strain in multiferroic BiFeO <sub>3</sub> . Scientific Reports, 2015, 5, 12969.	3.3	17
59	Strain effects on the electronic properties in $\hat{I}$ -doped oxide superlattices. Journal Physics D: Applied Physics, 2015, 48, 085303.	2.8	3
60	spin-orbit insulating state close to the cubic limit in $\text{Ca}_{1-x}\text{Sr}_x\text{MnO}_3$ . Physical Review B, 2014, 89, .	3.2	27
61	Ground-state and spin-wave dynamics in Brownmillerite SrCoO <sub>2.5</sub> a combined hybrid functional and LSDA + $U$ study. Journal of Physics Condensed Matter, 2014, 26, 036004.	1.8	13
62	Correlation effects in (111) bilayers of perovskite transition-metal oxides. Physical Review B, 2014, 89, .	3.2	63
63	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	12.8	59
64	Transparent conducting oxides: A $\hat{I}$ -doped superlattice approach. Scientific Reports, 2014, 4, 6021.	3.3	11
65	Dimensionality Control of d-orbital Occupation in Oxide Superlattices. Scientific Reports, 2014, 4, 6124.	3.3	28
66	Gradual localization of $Ni^{3d}$ states in $\text{LaNiO}_3$ ultrathin films induced by dimensional crossover. Physical Review B, 2013, 87, .	3.2	55
67	Doped Mott Insulators in (111) Bilayers of Perovskite Transition-Metal Oxides with a Strong Spin-Orbit Coupling. Physical Review Letters, 2013, 110, 066403.	7.8	66
68	Atomically resolved spectroscopic study of Sr <sub>2</sub> IrO <sub>4</sub> : Experiment and theory. Scientific Reports, 2013, 3, 3073.	3.3	55
69	Oxide Heterostructures for Efficient Solar Cells. Physical Review Letters, 2013, 110, 078701.	7.8	113
70	Tuning the Competition between Ferromagnetism and Antiferromagnetism in a Half-Doped Manganite through Magnetoelectric Coupling. Physical Review Letters, 2013, 111, 127601.	7.8	93
71	Global phase diagram of a doped Kitaev-Heisenberg model. Physical Review B, 2013, 87, .	3.2	62
72	Spontaneous fourfold-symmetry breaking driven by electron-lattice coupling and strong correlations in high- $T_c$ cuprates. Physical Review B, 2012, 86, .	3.2	10

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73	Strongly correlated heterostructures. , 2012, , 214-253.		0
74	Electronic and Magnetic Reconstructions in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ A Case of Enhanced Interlayer Coupling Controlled by the Interface. Physical Review Letters, 2011, 106, 147205.	7.8	83
75	Interface engineering of quantum Hall effects in digital transition metal oxide heterostructures. Nature Communications, 2011, 2, 596.	12.8	395
76	Stabilization Mechanisms of $\text{LaFeO}_3$ (010) Surfaces Determined with First Principles Calculations. Journal of the American Ceramic Society, 2011, 94, 1931-1939.	3.8	18
77	Anomalous mass enhancement in strongly correlated quantum wells. Physical Review B, 2011, 84, .	3.2	19
78	Possible interaction-driven topological phases in (111) bilayers of $\text{LaNiO}_3$ . Physical Review B, 2011, 84, .	3.2	139
79	Microscopic inhomogeneity and superconducting properties of a two-dimensional Hubbard model for high- $T_c$ $\text{LaAlO}_2/\text{SrTiO}_3$ heterostructures. Physical Review B, 2010, 82, .	3.2	122
80	Nonmonotonic temperature dependence of thermopower in strongly correlated electron systems. Physical Review B, 2011, 84, .	3.2	13
81	Unconventional Proximity Effect and Inverse Spin-Switch Behavior in a Model Manganite-Cuprate-Manganite Trilayer System. Physical Review Letters, 2010, 105, 256804.	7.8	41
82	Dimensional-Crossover-Driven Metal-Insulator Transition in $\text{SrVO}_3$ Ultrathin Films. Physical Review Letters, 2010, 104, 147601.	7.8	171
83	Microscopic inhomogeneity and superconducting properties of a two-dimensional Hubbard model for high- $T_c$ cuprate. Physical Review B, 2010, 81, .	3.2	15
84	Dynamical electronic nematicity from Mott physics. Physical Review B, 2010, 82, .	3.2	51
85	Magnetic interaction at an interface between manganite and other transition metal oxides. Physical Review B, 2010, 82, .	3.2	33
86	Noncollinear magnetic phases of a triangular-lattice antiferromagnet and of doped $\text{CuFeO}_2$ . Physical Review B, 2010, 81, .	3.2	28
87	Suppression of Octahedral Tilts and Associated Changes in Electronic Properties at Epitaxial Oxide Heterostructure Interfaces. Physical Review Letters, 2010, 105, 087204.	7.8	308
88	Interface Ferromagnetism and Orbital Reconstruction in $\text{BiFeO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . Physical Review Letters, 2010, 105, 027201.	7.8	335
89	Spin and orbital Ti magnetism at $\text{LaMnO}_3/\text{SrTiO}_3$ interfaces. Nature Communications, 2010, 1, 82.	12.8	156
90	Continuous metal-insulator transition of the antiferromagnetic perovskite $\text{NaOsO}_3$ . Physical Review B, 2009, 80, .	3.2	102

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91	Giant antiferromagnetically coupled moments in a molecule-based magnet with interpenetrating lattices. <i>Physical Review B</i> , 2009, 80, .	3.2	10
92	Molecule-based magnets with diruthenium building blocks in two and three dimensions. <i>Physical Review B</i> , 2009, 80, .	3.2	16
93	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
94	Spin-orbit coupling and Jahn-Teller distortion in bimetallic oxalates. <i>Polyhedron</i> , 2009, 28, 1740-1745.	2.2	6
95	Enhanced Superconductivity in Superlattices of High- $T_c$ Cuprates. <i>Physical Review Letters</i> , 2008, 101, 156401.	7.8	52
96	Charge transfer in heterostructures of strongly correlated materials. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 264002.	1.8	19
97	Nonlinear Transport through Strongly Correlated Two-Terminal Heterostructures: A Dynamical Mean-Field Approach. <i>Physical Review Letters</i> , 2008, 101, 116807.	7.8	43
98	Inverse Jahn-Teller Transition in Bimetallic Oxalates. <i>Physical Review Letters</i> , 2008, 101, 116402.	7.8	16
99	$\text{NaV}_2\text{O}_4$ : A Quasi-1D Metallic Antiferromagnet with Half-Metallic Chains. <i>Physical Review Letters</i> , 2007, 99, 196601.	7.8	41
100	Nonequilibrium transport and optical properties of model metal-Mott-insulator-metal heterostructures. <i>Physical Review B</i> , 2007, 76, .	3.2	28
101	Fictive-impurity approach to dynamical mean-field theory: A strong-coupling investigation. <i>Physical Review B</i> , 2007, 75, .	3.2	17
102	Band insulator to Mott insulator transition in a bilayer Hubbard model. <i>Physical Review B</i> , 2007, 75, .	3.2	57
103	Electron doping of cuprates via interfaces with manganites. <i>Physical Review B</i> , 2007, 76, .	3.2	93
104	Lattice Relaxation in Oxide Heterostructures: $\text{LaTiO}_3/\text{SrTiO}_3$ Superlattices. <i>Physical Review Letters</i> , 2006, 97, 056802.	7.8	237
105	Photoemission from Buried Interfaces in $\text{SrTiO}_3/\text{LaTiO}_3$ Superlattices. <i>Physical Review Letters</i> , 2006, 97, 057601.	7.8	90
106	Dynamical mean-field study of model double-exchange superlattices. <i>Physical Review B</i> , 2006, 73, .	3.2	49
107	Electronic reconstruction in correlated electron heterostructures. , 2005, , .		0
108	Interface phenomena in correlated electron systems. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 1378-1380.	2.7	3

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109	Benchmarkings for a semiclassical impurity solver for dynamical-mean-field theory: Self-energies and magnetic transitions of the single-orbital Hubbard model. Physical Review B, 2005, 71, .	3.2	15
110	Interface ordering and phase competition in a model Mott-insulator-band-insulator heterostructure. Physical Review B, 2005, 72, .	3.2	30
111	Spatial inhomogeneity and strong correlation physics: A dynamical mean-field study of a model Mott-insulator-band-insulator heterostructure. Physical Review B, 2004, 70, .	3.2	117
112	Electron-lattice coupling, orbital stability, and the phase diagram of $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ . Physical Review B, 2004, 70, .	3.2	26
113	Theory of Mott insulator-band insulator heterostructures. Physical Review B, 2004, 70, .	3.2	63
114	Ferromagnetic insulating phase in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ . Physical Review B, 2004, 69, .	3.2	32
115	Electronic reconstruction at an interface between a Mott insulator and a band insulator. Nature, 2004, 428, 630-633.	27.8	484
116	Theory of orbital state and spin interactions in ferromagnetic titanates. Physical Review B, 2003, 68, .	3.2	51
117	Fictive impurity models: An alternative formulation of the cluster dynamical mean-field method. Physical Review B, 2003, 68, .	3.2	24
118	Magnetic Order and Dynamics in an Orbital Degenerate Ferromagnetic Insulator. Physical Review Letters, 2002, 89, 167202.	7.8	99
119	Quantum Behavior of Orbitals in Ferromagnetic Titanates: Novel Orderings and Excitations. Physical Review Letters, 2002, 89, 167201.	7.8	86
120	Orbital ordering in $\text{LaMnO}_3$ and electron-lattice interactions. Physical Review B, 2002, 65, .	3.2	68
121	Theory of Raman scattering from orbital excitations in manganese oxides. Physical Review B, 2002, 66, .	3.2	12
122	Theory of Orbital Dynamics and their Observation by Polarized Light/X-Ray Scatterings. Journal of the Physical Society of Japan, 2002, 71, 60-63.	1.6	0
123	Two Ferromagnetic States in Magnetoresistive Manganites-First Order Transition Driven by Orbitals. , 2002, , 57-70.		0
124	Dynamics of orbital degree of freedom in transition-metal oxides. Journal of Physics and Chemistry of Solids, 2002, 63, 1343-1346.	4.0	0
125	Experimental quest for orbital waves. Nature, 2002, 418, 40-40.	27.8	24
126	Field-induced orbital order-disorder transition in an A-type antiferromagnetic manganite: High-field study of $\text{Nd}_{0.45}\text{Sr}_{0.55}\text{MnO}_3$ . Physical Review B, 2001, 65, .	3.2	12

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127	Observation of orbital waves as elementary excitations in a solid. <i>Nature</i> , 2001, 410, 180-183.	27.8	204
128	Orbital structure and magnetic ordering in layered manganites: Universal correlation and its mechanism. <i>Physical Review B</i> , 2001, 63, .	3.2	30
129	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.	3.2	5
130	Pressure-induced insulator-metal transition in a bilayer manganite: Pressure control of orbital stability. <i>Physical Review B</i> , 2000, 62, 17-20.	3.2	29
131	Phase transition in perovskite manganites with orbital degree of freedom. <i>Physical Review B</i> , 2000, 61, 14647-14655.	3.2	22
132	Reconsideration of the lattice effect on the charge-ordering transition of doped manganites. <i>Physical Review B</i> , 2000, 62, 80-83.	3.2	16
133	Orbital degree of freedom and phase separation in ferromagnetic manganites at finite temperatures. <i>Physical Review B</i> , 2000, 61, 451-458.	3.2	66
134	Interrelation between orbital polarization and magnetic structure in bilayer manganites. <i>Physical Review B</i> , 1999, 59, R14153-R14156.	3.2	29
135	Transition between Two Ferromagnetic States Driven by Orbital Ordering in $\text{La}_{0.88}\text{Sr}_{0.12}\text{MnO}_3$ . <i>Physical Review Letters</i> , 1999, 82, 4328-4331.	7.8	257
136	Field induced transition from metal to insulator in the colossal magneto-resistance manganites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999, 63, 151-158.	3.5	1
137	Interplay of Spin and Orbital Orderings in Perovskite Manganites. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 957-960.	1.6	53
138	Pressure Effects in Manganites with Layered Perovskite Structure. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 2965-2968.	1.6	35
139	Magnetic and orbital excitations in manganese oxides. <i>Physica B: Condensed Matter</i> , 1997, 230-232, 1058-1060.	2.7	1
140	Spin and orbital orderings in perovskite manganites. <i>Physica B: Condensed Matter</i> , 1997, 237-238, 48-50.	2.7	0
141	Raman scattering by orbital waves in perovskite $\text{LaMnO}_3$ . <i>Physica B: Condensed Matter</i> , 1997, 237-238, 51-53.	2.7	16
142	Spin and orbital orderings and their excitations in perovskite Mn oxides. <i>European Physical Journal D</i> , 1996, 46, 3225-3231.	0.4	0