

Masao Ogata

List of Publications by Year in descending order

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130
papers

3,570
citations

126907

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131
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131
docs citations

131
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of paramagnon drag on thermoelectric transport properties: Linear response theory. Physical Review B, 2022, 105, .	3.2	2
2	Large Diamagnetism and Electromagnetic Duality in Two-Dimensional Dirac Electron System. Physical Review Letters, 2022, 128, 027201.	7.8	13
3	Anomalous Spin Transport Properties of Gapped Dirac Electrons with Tilting. Journal of the Physical Society of Japan, 2022, 91, .	1.6	4
4	Seebeck Effect of Dirac Electrons. Journal of the Physical Society of Japan, 2022, 91, .	1.6	4
5	Thermoelectric transport of type-I, II, and III massless Dirac fermions in a two-dimensional lattice model. Physical Review B, 2022, 105, .	3.2	2
6	Spin Hall effect driven by the spin magnetic moment current in Dirac materials. Physical Review B, 2022, 105, .	3.2	7
7	Universal quantization of the magnetic susceptibility jump at a topological phase transition. Physical Review Research, 2021, 3, .	3.6	9
8	A Novel Method to Observe Topological Nature Using Nonlinear Thermoelectricity. JPSJ News and Comments, 2021, 18, 08.	0.1	0
9	Giant orbital diamagnetism of three-dimensional Dirac electrons in SrBi_2Te_3 antiperovskite. Physical Review B, 2021, 103, .		
10	Anomalous Conductivity of Two-Dimensional Dirac Electrons in Organic Conductor under Pressure. Journal of the Physical Society of Japan, 2021, 90, 044709.	1.6	4
11	Characteristic singular behaviors of nodal-line materials emerging in orbital magnetic susceptibility and Hall conductivity. Physical Review B, 2021, 104, .	3.2	3
12	Microscopic theory of magnetoconductivity at low magnetic fields in terms of Berry curvature and orbital magnetic moment. Physical Review Research, 2021, 3, .	3.6	5
13	Predicted photoinduced pair annihilation of emergent magnetic charges in the organic salt $\text{I}_3\text{-(BEDT-TTF)}_3$ irradiated by linearly polarized light. Physical Review B, 2021, 104, .		
14	Floquet Theory of Photoinduced Topological Phase Transitions in the Organic Salt $\text{I}_3\text{-(BEDT-TTF)}_3$ Irradiated with Elliptically Polarized Light. Journal of the Physical Society of Japan, 2021, 90, .	1.6	7
15	Nodal-line semimetal HMTSF-TCNQ: Anomalous orbital diamagnetism and charge density wave. Physical Review B, 2021, 104, .	3.2	2
16	Theory of thermal conductivity of excitonic insulators. Physical Review B, 2021, 104, .	3.2	3
17	Theory of huge thermoelectric effect based on a magnon drag mechanism: Application to thin-film Heusler alloy. Physical Review B, 2021, 104, .	3.2	18
18	Disentangling Orbital Magnetic Susceptibility with Wannier Functions. Journal of the Physical Society of Japan, 2021, 90, .	1.6	0

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19	Electric Transport of Nodal Line Semimetals in Single-Component Molecular Conductors. Crystals, 2020, 10, 862.	2.2	4
20	Dzyaloshinskiiâ€Moriya Interaction between Multipolar Moments in 5d1 Systems. Journal of the Physical Society of Japan, 2020, 89, 074702.	1.6	2
21	Theory of phason drag effect on thermoelectricity. Physical Review B, 2020, 102, .	3.2	0
22	Topological Dirac nodal loops in nonsymmorphic hydrogenated monolayer boron. Physical Review B, 2020, 101, .	3.2	19
23	Metallization of Mott Insulators through Percolation in Partially Filled Impurity Hubbard Model. , 2020, , .		0
24	Effect of Phonon Drag on Seebeck Coefficient Based on Linear Response Theory: Application to FeSb ₂ . Journal of the Physical Society of Japan, 2019, 88, 074601.	1.6	33
25	Range of Validity of Sommerfeldâ€Bethe Relation Associated with Seebeck Coefficient and Phonon Drag Contribution. Journal of the Physical Society of Japan, 2019, 88, 074703.	1.6	25
26	Role of Velocity Field and Principal Axis of Tilted Dirac Cones in Effective Hamiltonian of Non-Coplanar Nodal Loop. Journal of the Physical Society of Japan, 2019, 88, 124704.	1.6	8
27	Anomalous Temperature Behavior of the Chiral Spin Helix in CrNb_3S_6 Thin Lamellae. Physical Review Letters, 2019, 122, 017204.	1.6	29
28	Nuclear magnetic relaxation and Knight shift due to orbital interaction in Dirac electron systems. Journal of Physics and Chemistry of Solids, 2019, 128, 138-143.	4.0	21
29	Semimetallicity of free-standing hydrogenated monolayer boron from MgB_2 . Physical Review Materials, 2019, 3, .	1.6	29
30	Role of acoustic phonons in exotic conductivity of two-dimensional Dirac electrons. Physical Review B, 2018, 98, .	3.2	5
31	New Magnetic Phases in the Chiral Magnet CsCuCl ₃ under High Pressures. Journal of the Physical Society of Japan, 2018, 87, 075001.	1.6	4
32	Theory of Magnetization in Bloch Electron Systems. Journal of the Physical Society of Japan, 2017, 86, 044713.	1.6	11
33	Nuclear Spin Relaxation Time Due to the Orbital Currents in Dirac Electron Systems. Journal of the Physical Society of Japan, 2017, 86, 063705.	1.6	12
34	Lorentz Covariance of Dirac Electrons in Solids: Dielectric and Diamagnetic Properties. Journal of the Physical Society of Japan, 2017, 86, 083702.	1.6	5
35	Tunable Spin Dynamics in Chiral Soliton Lattice. Journal of the Physical Society of Japan, 2017, 86, 124701.	1.6	4
36	Theory of Spin Seebeck Effects in a Quantum Wire. Journal of the Physical Society of Japan, 2017, 86, 094703.	1.6	11

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37	Energy Landscape of Charge Excitations in the Boundary Region between Dimerâ€Mott and Charge Ordered States in Molecular Solids. Journal of the Physical Society of Japan, 2017, 86, 123706.	1.6	16
38	Theory of Orbital Susceptibility in the Tight-Binding Model: Corrections to the Peierls Phase. Journal of the Physical Society of Japan, 2016, 85, 074709.	1.6	12
39	Magnetic Chirality Induced from Rudermanâ€Kittelâ€Kasuyaâ€Yosida Interaction at an Interface of a Ferromagnet/Heavy Metal Heterostructure. Journal of the Physical Society of Japan, 2016, 85, 114701.	1.6	9
40	Correlation Effects on Charge Order and Zero-Gap State in the Organic Conductor $\hat{\pm}$ -(BEDT-TTF) ₂ I ₃ . Journal of the Physical Society of Japan, 2016, 85, 104706.	1.6	22
41	Orbital Magnetism of Bloch Electrons: III. Application to Graphene. Journal of the Physical Society of Japan, 2016, 85, 104708.	1.6	14
42	Theory of Orbital Susceptibility on Excitonic Insulator. Journal of the Physical Society of Japan, 2016, 85, 093701.	1.6	9
43	Orbital Magnetism of Bloch Electrons: II. Application to Single-Band Models and Corrections to Landauâ€Peierls Susceptibility. Journal of the Physical Society of Japan, 2016, 85, 064709.	1.6	13
44	Solitons in the Crossover between Band Insulator and Mott Insulator: Application to TTF-Chloranil under Pressure. Journal of the Physical Society of Japan, 2016, 85, 023702.	1.6	10
45	Staggered Flux State in Two-Dimensional Hubbard Models. Journal of the Physical Society of Japan, 2016, 85, 124707.	1.6	19
46	Quantum Hall Effect of Massless Dirac Fermions and Free Fermions in Hofstadterâ€™s Butterfly. Journal of the Physical Society of Japan, 2016, 85, 064712.	1.6	2
47	Long-Range Coulomb Interaction Effects on the Surface Dirac Electron System of a Three-Dimensional Topological Insulator. Journal of the Physical Society of Japan, 2015, 84, 034710.	1.6	1
48	Orbital Magnetism of Bloch Electrons I. General Formula. Journal of the Physical Society of Japan, 2015, 84, 124708.	1.6	35
49	Longitudinal conductivity of massless fermions with tilted Dirac cone in magnetic field. Physical Review B, 2015, 91, .	3.2	33
50	Meissner Effect of Dirac Electrons in Superconducting State Due to Inter-Band Effect. Journal of the Physical Society of Japan, 2015, 84, 084704.	1.6	9
51	Transport Properties and Diamagnetism of Dirac Electrons in Bismuth. Journal of the Physical Society of Japan, 2015, 84, 012001.	1.6	128
52	Effect of Diagonal Hopping on Staggered Flux State in Square-Lattice Hubbard model. , 2014, , .		2
53	Dynamical Conductivity of Dirac Electrons in Organic Conductors. Journal of the Physical Society of Japan, 2014, 83, 094705.	1.6	14
54	A Poor Manâ€™s Derivation of Quantum Compassâ€Heisenberg Interaction: Superexchange Interaction in $\langle i \rangle \langle j \rangle$ â€ $\langle i \rangle \langle j \rangle$ Coupling Scheme. Journal of the Physical Society of Japan, 2014, 83, 093701.	1.6	11

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55	Spin-Hall Effect and Diamagnetism of Anisotropic Dirac Electrons in Solids. Journal of the Physical Society of Japan, 2014, 83, 074702.	1.6	17
56	Effect of Tilting on the In-Plane Conductivity of Dirac Electrons in Organic Conductor. Journal of the Physical Society of Japan, 2014, 83, 023701.	1.6	22
57	Superconductivity and Non-Fermi-Liquid Metal in Carrier-Doped Triangular Hubbard Model. , 2014, , .		2
58	Magnetic instability in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ with $x = 0.5$. Journal of the Korean Physical Society, 2013, 63, 390-393.	0.7	0
59	Crossover between BCS Superconductor and Doped Mott Insulator of d -Wave Pairing State in Two-Dimensional Hubbard Model. Journal of the Physical Society of Japan, 2013, 82, 014707.	1.6	90
60	Thermoelectric Transport Coefficients for Massless Dirac Electrons in Quantum Limit. Journal of the Physical Society of Japan, 2013, 82, 063712.	1.6	19
61	Theory of Mechanism of d -Interaction in Iron-Phthalocyanine. Journal of the Physical Society of Japan, 2012, 81, 104705.	1.6	3
62	Spin-Polarization in Magneto-Optical Conductivity of Dirac Electrons. Journal of the Physical Society of Japan, 2012, 81, 013704.	1.6	19
63	Independent local spin variation in the local density of states induced by individual Ca impurity atoms in superconducting $\text{Na}(\text{Fe})_3\text{Tj}$ ETQq1 1 0.784314 rgBT /Overlo	3.2	25
64	Spin-Hall Effect and Diamagnetism of Dirac Electrons. Journal of the Physical Society of Japan, 2012, 81, 093704.	1.6	36
65	Low-Energy Effective Hamiltonian and the Surface States of Ca_3PbO . Journal of the Physical Society of Japan, 2012, 81, 064701.	1.6	64
66	Theory of Defect-Induced Kondo Effect in Graphene: Numerical Renormalization Group Study. Journal of the Physical Society of Japan, 2012, 81, 063709.	1.6	32
67	Recent Topics of Organic Superconductors. Journal of the Physical Society of Japan, 2012, 81, 011004.	1.6	106
68	Orbital-Selective Superconductivity and the Effect of Lattice Distortion in Iron-Based Superconductors. Journal of the Physical Society of Japan, 2011, 80, 074704.	1.6	12
69	Three-Dimensional Dirac Electrons at the Fermi Energy in Cubic Inverse Perovskites: Ca_3PbO and Its Family. Journal of the Physical Society of Japan, 2011, 80, 083704.	1.6	85
70	Effect of Doublon-Holon Binding on Mott Transition-Variational Monte Carlo Study of Two-Dimensional Bose Hubbard Models. Journal of the Physical Society of Japan, 2011, 80, 084607.	1.6	23
71	Mean-Field Analysis of Electric Field Effect on Charge Orders in Organic Conductors. Journal of the Physical Society of Japan, 2010, 79, 023705.	1.6	2
72	Single-Impurity Problem in Iron-Pnictide Superconductors. Journal of the Physical Society of Japan, 2010, 79, 083704.	1.6	40

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73	Phase Diagram of the Triangular J Model with Multiple Spin Exchange in the Doped-Mott Region. Journal of the Physical Society of Japan, 2009, 78, 013601.	1.6	9
74	Thermodynamic properties of the Heisenberg model on a triangular lattice with two exchange couplings: Application to two-dimensional solid $H = \sum_{\langle ij \rangle} J_{ij} S_i \cdot S_j + \sum_i J_{\perp} S_i \cdot S_{i\pm}$	3.2	3
75	adsorbed Interband Contributions from the Magnetic Field on Hall Effects for Dirac Electrons in Bismuth. Physical Review Letters, 2009, 102, 066601.	7.8	44
76	Fermi-Surface Reconstruction in the Periodic Anderson Model. Journal of the Physical Society of Japan, 2009, 78, 024715.	1.6	14
77	HALL EFFECT AND DIAMAGNETISM OF BISMUTH. , 2009, , .		0
78	Numerical Study of Current-Induced Domain-Wall Dynamics: Crossover from Spin Transfer to Momentum Transfer. Journal of the Physical Society of Japan, 2009, 78, 033703.	1.6	1
79	Quantum Monte Carlo Study of the Quasi-One-Dimensional Superconductivity. Journal of the Physical Society of Japan, 2009, 78, 034722.	1.6	6
80	The t - J model for the oxide high- T_c superconductors. Reports on Progress in Physics, 2008, 71, 036501.	20.1	257
81	Possibility of Gapless Spin Liquid State by One-Dimensionalization. Journal of the Physical Society of Japan, 2007, 76, 053705.	1.6	45
82	Precise Control of Band Filling in Na_xCoO_2 . Journal of the Physical Society of Japan, 2007, 76, 063705.	1.6	28
83	CoO_2 -Layer-Thickness Dependence of Magnetic Properties and Possible Two Different Superconducting States in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. Journal of the Physical Society of Japan, 2007, 76, 013704.	1.6	17
84	Specific Heat and Superfluid Density for Possible Two Different Superconducting States in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. Journal of the Physical Society of Japan, 2007, 76, 023702.	1.6	10
85	Increase of Superconducting Correlation due to Dimensionality Change in Quasi-One-Dimensional Conductors. Journal of the Physical Society of Japan, 2007, 76, 093701.	1.6	7
86	Deformation of Electronic Structures Due to CoO_6 Distortion and Phase Diagrams of $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. Journal of the Physical Society of Japan, 2006, 75, 113703.	1.6	23
87	Theoretical Aspects of Charge Ordering in Molecular Conductors. Journal of the Physical Society of Japan, 2006, 75, 051009.	1.6	156
88	Disorder Operator In 2D Insulating States. AIP Conference Proceedings, 2006, , .	0.4	0
89	Novel Charge Order and Superconductivity in Two-Dimensional Frustrated Lattice at Quarter Filling. Journal of the Physical Society of Japan, 2006, 75, 063702.	1.6	72
90	Mean-Field Study of Charge Order with Long Periodicity in \hat{I}_s -(BEDT-TTF) $_2$ X. Journal of the Physical Society of Japan, 2006, 75, 014710.	1.6	53

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91	Charge Fluctuations in Geometrically Frustrated Charge Ordering System. Journal of the Physical Society of Japan, 2006, 75, 114707.	1.6	19
92	Mott Transitions and d-Wave Superconductivity in Half-Filled-Band Hubbard Model on Square Lattice with Geometric Frustration. Journal of the Physical Society of Japan, 2006, 75, 114706.	1.6	111
93	Characterization of two-dimensional fermionic insulating states. Physical Review B, 2006, 74, .	3.2	4
94	Formation of Non-Unitary State near the Upper-Critical Field of Sr ₂ RuO ₄ . Journal of the Physical Society of Japan, 2005, 74, 2905-2908.	1.6	15
95	Charge Order and Superconductivity in Two-Dimensional Triangular Lattice at $t_n=2/3$. Journal of the Physical Society of Japan, 2005, 74, 2901-2904.	1.6	35
96	Development of Superconducting Correlation at Low Temperatures in the Two-dimensional t - J Model. Journal of the Physical Society of Japan, 2005, 74, 1390-1393.	1.6	9
97	Effects of Charge Ordering on the Spin Degrees of Freedom in One-Dimensional Extended Hubbard Model. Journal of the Physical Society of Japan, 2005, 74, 3283-3287.	1.6	13
98	Ferromagnetic and Triplet-Pairing Instabilities Controlled by Trigonal Distortion of CoO ₆ Octahedra in Na _x CoO ₂ ·yH ₂ O. Journal of the Physical Society of Japan, 2005, 74, 1670-1673.	1.6	31
99	Multi-orbital Analysis on the Superconductivity in Na _x CoO ₂ ·yH ₂ O. Journal of the Physical Society of Japan, 2005, 74, 430-444.	1.6	60
100	Kinetic Energy, Condensation Energy, Optical Sum Rule and Pairing Mechanism in High-T _c Cuprates. Journal of the Physical Society of Japan, 2005, 74, 1534-1543.	1.6	15
101	Role of Spin-Orbit Coupling on the Spin Triplet Pairing in Na _x CoO ₂ ·yH ₂ O: I.d-Vector under Zero Magnetic Field. Journal of the Physical Society of Japan, 2005, 74, 2568-2578.	1.6	18
102	Role of Spin-Orbit Coupling on the Spin Triplet Pairing in Na _x CoO ₂ ·yH ₂ O II: Multiple Phase Diagram under the Magnetic Field. Journal of the Physical Society of Japan, 2005, 74, 3351-3364.	1.6	12
103	Looking into the Inside of Anomalous Vortex Cores of High-Temperature Superconductors. JPSJ News and Comments, 2005, 2, 08.	0.1	0
104	Crossover of Superconducting Properties and Kinetic-Energy Gain in Two-Dimensional Hubbard Model. Journal of the Physical Society of Japan, 2004, 73, 1119-1122.	1.6	84
105	Superconductivity in Na _x CoO ₂ ·yH ₂ O due to Charge Fluctuation. Journal of the Physical Society of Japan, 2004, 73, 319-322.	1.6	76
106	Superconductivity due to Charge Fluctuation in \hat{I} -Type Organic Conductors. Journal of the Physical Society of Japan, 2004, 73, 2053-2056.	1.6	39
107	Variational Monte Carlo Studies of Pairing Symmetry for the t - J Model on a Triangular Lattice. Journal of the Physical Society of Japan, 2004, 73, 3404-3412.	1.6	40
108	Charge-Fluctuation-Induced Superconducting State in Two-Dimensional Quarter-Filled Electron Systems. Journal of the Physical Society of Japan, 2004, 73, 1115-1118.	1.6	48

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109	Electronic States Around Vortex Cores in the t-J Model. Journal of Low Temperature Physics, 2003, 131, 209-216.	1.4	1
110	Superconducting States in Frustrating t-J Model: A Model Connecting High-Tc Cuprates, Organic Conductors and Na _x CoO ₂ . Journal of the Physical Society of Japan, 2003, 72, 1839-1842.	1.6	126
111	Superconductivity and Antiferromagnetism in an Extended Gutzwiller Approximation for t-J Model: Effect of Double-Occupancy Exclusion. Journal of the Physical Society of Japan, 2003, 72, 374-391.	1.6	67
112	Microscopic Identification of the D-vector in Triplet Superconductor Sr ₂ RuO ₄ . Journal of the Physical Society of Japan, 2003, 72, 673-687.	1.6	81
113	Ferromagnetic Ising Spin Chains Emerging from the Spin Ice under Magnetic Field. Journal of the Physical Society of Japan, 2003, 72, 3045-3048.	1.6	51
114	Electronic states around a vortex core in high-Tc superconductors based on the t-J model. Physical Review B, 2003, 68, .	3.2	40
115	Coexistence of Charge Order and Spin-Peierls Lattice Distortion in One-Dimensional Organic Conductors. Journal of the Physical Society of Japan, 2003, 72, 225-228.	1.6	52
116	Ferromagnetism on the Frustrated Lattices. Journal of the Physical Society of Japan, 2003, 72, 2437-2440.	1.6	21
117	Exact Result of Ground-State Entropy for Ising Pyrochlore Magnets under a Magnetic Field along [111] Axis. Journal of the Physical Society of Japan, 2002, 71, 2365-2368.	1.6	75
118	Midgap States in Disordered Spin-Peierls Systems. Journal of the Physical Society of Japan, 2002, 71, 721-724.	1.6	3
119	Aspects of the Verwey transition in magnetite. Physical Review B, 2002, 65, .	3.2	56
120	Nature of Spin Excitations in Two-Dimensional Mott Insulators: Undoped Cuprates and Other Materials. Physical Review Letters, 2001, 86, 1626-1629.	7.8	70
121	Local magnetic moments around a nonmagnetic impurity in the two-dimensional t-J model. Physical Review B, 2001, 64, .	3.2	53
122	Quantized Conductance of One-Dimensional Doped Mott Insulator. Journal of the Physical Society of Japan, 1997, 66, 3363-3366.	1.6	8
123	Collapse of Quantized Conductance in a Dirty Tomonaga-Luttinger Liquid. Physical Review Letters, 1994, 73, 468-471.	7.8	115
124	Quasiparticles in Two-Dimensional Hubbard Model: Splitting of Spectral Weight. Journal of the Physical Society of Japan, 1994, 63, 3923-3926.	1.6	21
125	Non-Tomonaga-Luttinger-Liquid Behavior of the Ground State of Model One-Dimensional Electron Systems. Journal of the Physical Society of Japan, 1993, 62, 2990-2993.	1.6	2
126	Brownian-Like Motion of a One-Dimensional $\frac{1}{4}$ Kink and Fluctuation-Dissipation Theorem. Journal of the Physical Society of Japan, 1986, 55, 1252-1265.	1.6	22

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127	Soliton-Phonon Interactions in trans-Polyacetylene. Journal of the Physical Society of Japan, 1986, 55, 2296-2304.	1.6	8
128	Brownian Motion of a Soliton in trans-Polyacetylene. I. Random Walk Mechanism. Journal of the Physical Society of Japan, 1986, 55, 2305-2314.	1.6	21
129	Viscosity of a Kink in the One-Dimensional π -4System. Journal of the Physical Society of Japan, 1985, 54, 3425-3446.	1.6	17
130	Momentum Transfer between a Kink and a Phonon in the One-Dimensional π -4System. Journal of the Physical Society of Japan, 1984, 53, 3855-3870.	1.6	7