Masatoshi Imada

List of Publications by Year
in descending order

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299 papers	17,074 citations	30551 56 h-index	17891 125 g-index
300 all docs	300 docs citations	300 times ranked	11982 citing authors

#	Article	IF	Citations
1	Unconventional dual 1Dâ€“2D quantum spin liquid revealed by ab initio studies on organic solids family. Npj Quantum Materials, 2022, 7, .	1.8	9
2	Optimized implementation for calculation and fast-update of Pfaffians installed to the open-source fermionic variational solver mVMC. Computer Physics Communications, 2022, 277, 108375.	3.0	2
3	Local moments versus itinerant antiferromagnetism: Magnetic phase diagram and spectral properties of the anisotropic square lattice Hubbard model. Physical Review B, 2021, 103, .	1.1	4
4	High-temperature superconductivity. Nature Reviews Physics, 2021, 3, 462-465.	11.9	54
5	Resonant Inelastic X-Ray Scattering Spectra of Cuprate Superconductors Predicted by Model of Fractionalized Fermions. Journal of the Physical Society of Japan, 2021, 90, 074702.	0.7	4
6	Order- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> orbital-free density-functional calculations with machine learning of functional derivatives for semiconductors and metals. Physical Review Research, 2021, 3, .	1.3	16
7	Dirac-Type Nodal Spin Liquid Revealed by Refined Quantum Many-Body Solver Using Neural-Network Wave Function, Correlation Ratio, and Level Spectroscopy. Physical Review X, 2021, 11, .	2.8	60
8	Ab initio derivation of low-energy Hamiltonians for systems with strong spin-orbit interaction: Application to Ca5Ir3O12. Physical Review B, 2021, 104, .	1.1	11
9	Charge Order and Superconductivity as Competing Brothers in Cuprate High-Tc Superconductors. Journal of the Physical Society of Japan, 2021, 90, 111009.	0.7	11
10	Hidden self-energies as origin of cuprate superconductivity revealed by machine learning. Physical Review Research, 2021, 3, .	1.3	11
11	Single-Particle Spectral Function Formulated and Calculated by Variational MonteÂCarlo Method with Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:math> -Wave Superconducting State. Physical Review X, 2020, 10, .	2.8	12
12	Ab initio study of superconductivity and inhomogeneity in a Hg-based cuprate superconductor. Physical Review B, 2020, 101, .	1.1	25
13	Charge dynamics of correlated electrons: Variational description with inclusion of composite fermions. Physical Review B, 2020, 101, .	1.1	12
14	Effective Hamiltonian for cuprate superconductors derived from multiscale ab initio scheme with level renormalization. Physical Review B, 2019, 99, .	1.1	34
15	Ab initio derivation of an effective Hamiltonian for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">CuO</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>1.55</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>0.45</mml:mn></mml:mrow></mml:msub><mml:m.	1.1	7
16	Excitons and Dark Fermions as Origins of Mott Gap, Pseudogap and Superconductivity in Cuprate Superconductors â€” General Concept and Basic Formalism Based on Gap Physics. Journal of the Physical Society of Japan, 2019, 88, 024701.	0.7	17
17	mVMCâ€”Open-source software for many-variable variational Monte Carlo method. Computer Physics Communications, 2019, 235, 447-462.	3.0	62
18	Competition among various charge-inhomogeneous states and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -wave superconducting state in Hubbard models on square lattices. Physical Review B, 2018, 97, .	1.1	61

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19	Stripe and superconducting order competing in the Hubbard model on a square lattice studied by a combined variational Monte Carlo and tensor network method. Physical Review B, 2018, 98, .	1.1	41
20	Direct connection between Mott insulators and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -wave high-temperature superconductors revealed by continuous evolution of self-energy poles. Physical Review B, 2018, 98, .	1.1	14
21	Constructing exact representations of quantum many-body systems with deep neural networks. Nature Communications, 2018, 9, 5322.	5.8	111
22	Ab initio effective Hamiltonians for cuprate superconductors. Physical Review B, 2018, 98, .	1.1	59
23	Large-scale intermittency and rare events boosted at dimensional crossover in anisotropic turbulence. Physical Review Fluids, 2018, 3, .	1.0	1
24	Ground-state properties of Na2IrO3 determined from an ab initio Hamiltonian and its extensions containing Kitaev and extended Heisenberg interactions. Physical Review B, 2017, 96, .	1.1	16
25	Correlation-induced superconductivity dynamically stabilized and enhanced by laser irradiation. Science Advances, 2017, 3, e1700718.	4.7	29
26	Low-energy effective Hamiltonians for correlated electron systems beyond density functional theory. Physical Review B, 2017, 96, .	1.1	25
27	Variational Monte Carlo method for fermionic models combined with tensor networks and applications to the hole-doped two-dimensional Hubbard model. Physical Review B, 2017, 96, .	1.1	28
28	Restricted Boltzmann machine learning for solving strongly correlated quantum systems. Physical Review B, 2017, 96, .	1.1	198
29	Competition among Superconducting, Antiferromagnetic, and Charge Orders with Intervention by Phase Separation in the 2D Holstein-Hubbard Model. Physical Review Letters, 2017, 119, 197001.	2.9	41
30	Volume-wise destruction of the antiferromagnetic Mott insulating state through quantum tuning. Nature Communications, 2016, 7, 12519.	5.8	36
31	Finite-Temperature Variational Monte Carlo Method for Strongly Correlated Electron Systems. Journal of the Physical Society of Japan, 2016, 85, 034601.	0.7	18
32	Stabilization of topological insulator emerging from electron correlations on honeycomb lattice and its possible relevance in twisted bilayer graphene. Physical Review B, 2016, 94, .	1.1	14
33	Tensor network algorithm by coarse-graining tensor renormalization on finite periodic lattices. Physical Review B, 2016, 93, .	1.1	31
34	Clues and criteria for designing a Kitaev spin liquid revealed by thermal and spin excitations of the honeycomb iridate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO3. Physical Review B, 2016, 93, .	1.1	89
35	Modulated helical metals at magnetic domain walls of pyrochlore iridium oxides. Physical Review B, 2016, 93, .	1.1	13
36	Hidden Fermionic Excitation Boosting High-Temperature Superconductivity in Cuprates. Physical Review Letters, 2016, 116, 057003.	2.9	55

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37	Real-space renormalized dynamical mean field theory. Physical Review B, 2016, 93, .	1.1	2
38	Self-optimized superconductivity attainable by interlayer phase separation at cuprate interfaces. Science Advances, 2016, 2, e1600664.	4.7	14
39	Hidden-fermion representation of self-energy in pseudogap and superconducting states of the two-dimensional Hubbard model. Physical Review B, 2016, 94, .	1.1	25
40	Nonequilibrium Pumpâ€“Probe Photoexcitation as a Tool for Analyzing Unoccupied Equilibrium States of Correlated Electrons. Journal of the Physical Society of Japan, 2016, 85, 094707.	0.7	0
41	Time-dependent many-variable variational Monte Carlo method for nonequilibrium strongly correlated electron systems. Physical Review B, 2015, 92, .	1.1	33
42	Exciton Lifetime Paradoxically Enhanced by Dissipation and Decoherence: Toward Efficient Energy Conversion of a Solar Cell. Physical Review Letters, 2015, 115, 197701.	2.9	9
43	Hidden fermionic excitation in the superconductivity of the strongly attractive Hubbard model. Physical Review B, 2015, 92, .	1.1	13
44	Variational Monte Carlo method in the presence of spin-orbit interaction and its application to Kitaev and Kitaev-Heisenberg models. Physical Review B, 2015, 92, .	1.1	11
45	Quantum Spin Liquid in Spin 1/2J₁â€“J₂Heisenberg Model on Square Lattice: Many-Variable Variational Monte Carlo Study Combined with Quantum-Number Projections. Journal of the Physical Society of Japan, 2015, 84, 024720.	0.7	80
46	Ab initio Studies of Magnetism in the Iron Chalcogenides FeTe and FeSe. Journal of the Physical Society of Japan, 2015, 84, 093703.	0.7	23
47	Gapless Spin-Liquid Phase in an Extended Spin 1/2 Triangular Heisenberg Model. Journal of the Physical Society of Japan, 2014, 83, 093707.	0.7	105
48	Mott versus Slater-Type Metal-Insulator Transition in Sr₂IrO₄ and Ba₂IrO₄. , 2014, , .		4
49	Metallic Interface Emerging at Magnetic Domain Wall of Antiferromagnetic Insulator: Fate of Extinct Weyl Electrons. Physical Review X, 2014, 4, .	2.8	44
50	Origin of high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma in doped Hubbard models and their extensions: Roles of uniform charge fluctuations. Physical Review B, 2014, 90, .	1.1	87
51	Superconductivity and its mechanism in an ab initio model for electron-doped LaFeAsO. Nature Communications, 2014, 5, 5738.	5.8	41
52	Electron Correlation Effects on Topological Phases. Journal of the Physical Society of Japan, 2014, 83, 061017.	0.7	7
53	First-Principles Study of the Honeycomb-Lattice Iridates<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Na</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ the Presence of Strong Spin-Orbit Interaction and Electron Correlations. Physical Review Letters, 2014, 113, 107201.	2.9	197
54	Variational Monte Carlo method for electron-phonon coupled systems. Physical Review B, 2014, 89, .	1.1	24

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55	Universal departure from Johnson-Nyquist relation caused by limited resolution. Physical Review B, 2014, 89, .	1.1	1
56	Raman-Scattering Measurements and Theory of the Energy-Momentum Spectrum for UnderdopedBi2Sr2CaCuO8+Î´Superconductors: Evidence of ans-Wave Structure for the Pseudogap. Physical Review Letters, 2013, 111, 107001.	2.9	64
57	Phase diagram structure of topological Mott transition for zero-gap semiconductors beyond conventional Landau-Ginzburg-Wilson scenario. Physical Review B, 2013, 88, .	1.1	6
58	Atomically resolved spectroscopic study of Sr2IrO4: Experiment and theory. Scientific Reports, 2013, 3, 3073.	1.6	55
59	Derivation of static low-energy effective models by anab initiodownfolding method without double counting of Coulomb correlations: Application to SrVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>, FeSe, and FeTe. Physical Review B, 2013, 87, .	1.1	42
60	Quantum Monte Carlo simulations for stacked spin-ladder systems containing low concentrations of nonmagnetic impurities: Application to the low-temperature broadening of NMR spectra in SrCu2O3. Physical Review B, 2013, 88, .	1.1	2
61	Theory of Pseudogap in Underdoped Cuprates. Journal of Physics: Conference Series, 2013, 449, 012005.	0.3	11
62	Improved multi-variable variational Monte Carlo method examined by high-precision calculations of one-dimensional Hubbard model. Journal of Physics: Conference Series, 2013, 454, 012046.	0.3	7
63	Absence of Chirality and Flux in Quantum Spin Systems and the Hubbard Model in Two-Dimension. Progress of Theoretical Physics Supplement, 2013, 101, 391-402.	0.2	0
64	Mott Transition and Phase Diagram of Îº-(BEDT-TTF)₂Cu(NCS)₂Studied by Two-Dimensional Model Derived fromAb initioMethod. Journal of the Physical Society of Japan, 2012, 81, 034701.	0.7	38
65	Ab InitioEvidence for Strong Correlation Associated with Mott Proximity in Iron-Based Superconductors. Physical Review Letters, 2012, 108, 177007.	2.9	70
66	Cluster-size dependence in cellular dynamical mean-field theory. Physical Review B, 2012, 85, .	1.1	55
67	Effective on-site interaction for dynamical mean-field theory. Physical Review B, 2012, 86, .	1.1	60
68	High-temperature superconductivity in layered nitrides<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow		

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73	Topological Insulators from Spontaneous Symmetry Breaking Induced by Electron Correlation on Pyrochlore Lattices. Journal of the Physical Society of Japan, 2011, 80, 044708.	0.7	66
74	Magnetic Properties of Ab initio Model of Iron-Based Superconductors LaFeAsO. Journal of the Physical Society of Japan, 2011, 80, 023704.	0.7	26
75	Mott physics on helical edges of two-dimensional topological insulators. Physical Review B, 2011, 83, .	1.1	65
76	Theory of pseudogap and superconductivity in doped Mott insulators. Annalen Der Physik, 2011, 523, 629-637.	0.9	19
77	Composite-Fermion Theory for Pseudogap, Fermi Arc, Hole Pocket, and Non-Fermi Liquid of Underdoped Cuprate Superconductors. Physical Review Letters, 2011, 106, 016404.	2.9	47
78	Composite fermion theory for pseudogap phenomena and superconductivity in underdoped cuprate superconductors. Physical Review B, 2011, 83, .	1.1	26
79	Stability of Unconventional Superconductivity on Surfaces of Topological Insulators. Journal of the Physical Society of Japan, 2011, 80, 063704.	0.7	10
80	Electronic and Magnetic Properties of Metallic Phases under Coexisting Short-Range Interaction and Diagonal Disorder. Journal of the Physical Society of Japan, 2010, 79, 094711.	0.7	4
81	Ab initioLow-Dimensional Physics Opened Up by Dimensional Downfolding: Application to LaFeAsO. Journal of the Physical Society of Japan, 2010, 79, 123708.	0.7	21
82	Magnetization Step in Spatially Distorted Heisenberg KagomÃ© Antiferromagnets. Journal of the Physical Society of Japan, 2010, 79, 073708.	0.7	7
83	Doped high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>cuprate superconductors elucidated in the light of zeros and poles of the electronic Greenâ€™s function. Physical Review B, 2010, 82, .	1.1	92
84	Systematic Control of Doped Carrier Density without Disorder at Interface of Oxide Heterostructures. Journal of the Physical Society of Japan, 2010, 79, 034704.	0.7	4
85	Unconventional quantum criticality emerging as a new common language of transition-metal compounds, heavy-fermion systems, and organic conductors. Journal of Physics Condensed Matter, 2010, 22, 164206.	0.7	31
86	Theory of Electron Transport near Andersonâ€“Mott Transitions. Journal of the Physical Society of Japan, 2010, 79, 113703.	0.7	7
87	Comparison of Ab initio Low-Energy Models for LaFePO, LaFeAsO, BaFe₂As₂, LiFeAs, FeSe, and FeTe: Electron Correlation and Covalency. Journal of the Physical Society of Japan, 2010, 79, 044705.	0.7	289
88	Theoretical evidence for strong correlations and incoherent metallic state in FeSe. Physical Review B, 2010, 82, .	1.1	194
89	Electronic Structure Calculation by First Principles for Strongly Correlated Electron Systems. Journal of the Physical Society of Japan, 2010, 79, 112001.	0.7	116
90	On Proximity of 4/7 Solid Phase of ³He Adsorbed on Graphite â€“Origin of Specific-Heat Anomalies in Hole-Doped Density-Ordered Solidâ€“. Journal of the Physical Society of Japan, 2009, 78, 033603.	0.7	2

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91	Soft Hubbard Gaps in Disordered Itinerant Models with Short-Range Interaction. Physical Review Letters, 2009, 102, 016404.	2.9	47
92	Evolution of Electronic Structure of Doped Mott Insulators: Reconstruction of Poles and Zeros of Greenâ€™s Function. Physical Review Letters, 2009, 102, 056404.	2.9	164
93	Transition from band insulator to Bose-Einstein-condensate superfluid and Mott state of cold Fermi gases with multiband effects in optical lattices. Physical Review A, 2009, 80, .	1.0	3
94	Single-Particle Excitations under Coexisting Electron Correlation and Disorder: A Numerical Study of the Andersonâ€“Hubbard Model. Journal of the Physical Society of Japan, 2009, 78, 094708.	0.7	47
95	Ab initio Derivation of Low-Energy Model for Î²-ET Type Organic Conductors. Journal of the Physical Society of Japan, 2009, 78, 083710.	0.7	163
96	Roles of zeros of the Green function in Fermi arc and non-Fermi liquid in the two-dimensional Hubbard model. Physica B: Condensed Matter, 2009, 404, 3183-3186.	1.3	9
97	Ab initioprocedure for constructing effective models of correlated materials with entangled band structure. Physical Review B, 2009, 80, .	1.1	161
98	Spin Fluctuation Theory for Quantum Tricritical Point Arising in Proximity to First-Order Phase Transitions: Applications to Heavy-Fermion Systems, YbRh₂Si₂, CeRu₂Si₂, and Î²-YbAlB₄. Journal of the Physical Society of Japan, 2009, 78, 084707.	0.7	51
99	Ab initio Derivation of Low-Energy Model for Iron-Based Superconductors LaFeAsO and LaFePO. Journal of the Physical Society of Japan, 2008, 77, 093711.	0.7	130
100	Optical absorption study byab initiodownfolding approach: Application to GaAs. Physical Review B, 2008, 77, .	1.1	15
101	Variational Monte Carlo Method Combined with Quantum-Number Projection and Multi-Variable Optimization. Journal of the Physical Society of Japan, 2008, 77, 114701.	0.7	118
102	YbRh₂Si₂: Quantum Tricritical Behavior in Itinerant Electron Systems. Journal of the Physical Society of Japan, 2008, 77, 093712.	0.7	34
103	Variational Monte Carlo Study of Electron Differentiation around Mott Transition. Journal of the Physical Society of Japan, 2008, 77, 093703.	0.7	20
104	Does Simple Two-Dimensional Hubbard Model Account for High-T_cSuperconductivity in Copper Oxides?. Journal of the Physical Society of Japan, 2007, 76, 113708.	0.7	99
105	Gaussian-Basis Monte Carlo Method for Numerical Study on Ground States of Itinerant and Strongly Correlated Electron Systems. Journal of the Physical Society of Japan, 2007, 76, 084709.	0.7	31
106	Quantum criticality around metal-insulator transitions of strongly correlated electron systems. Physical Review B, 2007, 75, .	1.1	49
107	Pseudogap and Mott transition studied by cellular dynamical mean-field theory. Physical Review B, 2007, 76, .	1.1	81
108	Antiferromagnetic Ising Model on Inverse Perovskite Lattice. Journal of the Physical Society of Japan, 2007, 76, 013708.	0.7	29

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109	Drude Weight of the Two-Dimensional Hubbard Model â€“Reexamination of Finite-Size Effect in Exact Diagonalization Studyâ€“. Journal of the Physical Society of Japan, 2007, 76, 034705.	0.7	14
110	Quantum Metamagnetic Transitions Induced by Changes in Fermi-Surface Topology: Applications to a Weak Itinerant-Electron Ferromagnet ZrZn2. Journal of the Physical Society of Japan, 2007, 76, 063702.	0.7	34
111	Applications of path-integral renormalization group method combined with density functional theory. Journal of Physics Condensed Matter, 2007, 19, 365230.	0.7	1
112	Marginal quantum criticality of metal-insulator transitions. Journal of Magnetism and Magnetic Materials, 2007, 310, 925-927.	1.0	0
113	Quantum criticalities induced by Lifshitz transitions. Journal of Magnetism and Magnetic Materials, 2007, 310, 838-840.	1.0	7
114	Quantum valence criticality and superconductivity. Journal of Magnetism and Magnetic Materials, 2007, 310, 841-843.	1.0	10
115	What is Minimal Model of3He Adsorbed on Graphite? â€“Importance of Density Fluctuations in 4/7 Registered Solidâ€“. Journal of the Physical Society of Japan, 2007, 76, 113603.	0.7	12
116	Quantum and Topological Criticalities of Lifshitz Transition in Two-Dimensional Correlated Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 094719.	0.7	65
117	Tricritical Behavior in Charge-Order System. Journal of the Physical Society of Japan, 2006, 75, 064705.	0.7	23
118	Quantum Critical â€œOpalescenceâ€•around Metalâ€“Insulator Transitions. Journal of the Physical Society of Japan, 2006, 75, 083705.	0.7	22
119	Superconductivity Emerging near Quantum Critical Point of Valence Transition. Journal of the Physical Society of Japan, 2006, 75, 043710.	0.7	80
120	First-Principles Computation of YVO3: Combining Path-Integral Renormalization Group with Density-Functional Approach. Journal of the Physical Society of Japan, 2006, 75, 124707.	0.7	22
121	Towards a complete theory of high Tc. Nature Physics, 2006, 2, 138-143.	6.5	80
122	Algorithms and Applications of Path-Integral Renormalization Group Method. AIP Conference Proceedings, 2006, , .	0.3	0
123	Ground-State Properties and Optical Conductivity of the Transition Metal Oxide Sr2VO4. Journal of the Physical Society of Japan, 2006, 75, 094713.	0.7	26
124	Gapless quantum spin liquid, stripe, and antiferromagnetic phases in frustrated Hubbard models in two dimensions. Physical Review B, 2006, 74, .	1.1	97
125	Fate of Quasiparticle at Mott Transition and Interplay with Lifshitz Transition Studied by Correlator Projection Method. Journal of the Physical Society of Japan, 2006, 75, 084702.	0.7	8
126	Quantum Mott Transition and Superconductivity. Journal of the Physical Society of Japan, 2005, 74, 859-862.	0.7	12

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127	Charge Ordered Insulator without Magnetic Order Studied by Correlator Projection Method. Journal of the Physical Society of Japan, 2005, 74, 2769-2782.	0.7	11
128	Charge susceptibility of the Hubbard chain with next-nearest-neighbor hopping. Physica B: Condensed Matter, 2005, 359-361, 657-659.	1.3	1
129	Path-integral renormalization group method with quantum-number projection. Computer Physics Communications, 2005, 169, 408-411.	3.0	0
130	Screening of Coulomb interactions in transition metals. Physical Review B, 2005, 71, .	1.1	110
131	Publisher's Note: Universality classes of metal-insulator transitions in strongly correlated electron systems and mechanism of high-temperature superconductivity [Phys. Rev. B72, 075113 (2005)]. Physical Review B, 2005, 72, .	1.1	0
132	Electronic Structure of Strongly Correlated Systems Emerging from Combining Path-Integral Renormalization Group with the Density-Functional Approach. Physical Review Letters, 2005, 95, 176405.	2.9	66
133	Universality classes of metal-insulator transitions in strongly correlated electron systems and mechanism of high-temperature superconductivity. Physical Review B, 2005, 72, .	1.1	69
134	G-type Antiferromagnetism and Orbital Ordering due to the Crystal Field from the Rare-Earth Ions Induced by the GdFeO3-type Distortion inRTiO3WhereR=La, Pr, Nd and Sm. Journal of the Physical Society of Japan, 2004, 73, 1833-1850.	0.7	29
135	Quantum-number projection in the path-integral renormalization group method. Physical Review B, 2004, 69, .	1.1	54
136	Finite-temperature Mott transition in the two-dimensional Hubbard model. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E275-E276.	1.0	2
137	Orbital physics in the perovskite Ti oxides. New Journal of Physics, 2004, 6, 154-154.	1.2	119
138	Frequency-dependent local interactions and low-energy effective models from electronic structure calculations. Physical Review B, 2004, 70, .	1.1	601
139	Thermodynamic Relations in Correlated Systems. Journal of the Physical Society of Japan, 2004, 73, 3341-3350.	0.7	13
140	Quantum Mott Transition and Multi-Furcating Criticality. Journal of the Physical Society of Japan, 2004, 73, 1851-1863.	0.7	23
141	Precise Determination of Phase Diagram for Two-Dimensional Hubbard Model with Filling- and Bandwidth-Control Mott Transitions: Grand-Canonical Path-Integral Renormalization Group Approach. Journal of the Physical Society of Japan, 2004, 73, 1251-1266.	0.7	32
142	Orbital-Spin Structure and Lattice Coupling inRTiO3whereR=La,Pr,Nd, andSm. Physical Review Letters, 2003, 91, 167203.	2.9	85
143	Precise estimation of shell model energy by second-order extrapolation method. Physical Review C, 2003, 67, .	1.1	27
144	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

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145	Path-Integral Renormalization Group Method. AIP Conference Proceedings, 2003, , .	0.3	1
146	Tools for Studying Quantum Emergence near Phase Transitions. AIP Conference Proceedings, 2003, , .	0.3	0
147	Extrapolation method for shell model calculations. Physical Review C, 2002, 65, .	1.1	39
148	Quantum Phase Transitions to Charge-Ordered and Wigner-Crystal States under the Interplay of Lattice Commensurability and Long-Range Coulomb Interactions. Physical Review Letters, 2002, 89, 176803.	2.9	24
149	Nonmagnetic Insulating States near the Mott Transitions on Lattices with Geometrical Frustration and Implications for Î°-(ET)2Cu2(CN)3. Journal of the Physical Society of Japan, 2002, 71, 2109-2112.	0.7	249
150	Systematic improvement of wavefunctions in the variational Monte Carlo method for the tâ€“J model. Journal of Physics and Chemistry of Solids, 2002, 63, 1563-1566.	1.9	0
151	Operator projection theory for electron differentiation in underdoped cuprate superconductors. Journal of Physics and Chemistry of Solids, 2002, 63, 2225-2231.	1.9	5
152	Competition between spin exchange and correlated hopping. Journal of Physics and Chemistry of Solids, 2002, 63, 1531-1535.	1.9	2
153	Magnetic and Orbital States and Their Phase Transition of the Perovskite-Type Ti Oxides: Strong Coupling Approach. Journal of the Physical Society of Japan, 2001, 70, 1777-1789.	0.7	33
154	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
155	Doped Two Orbital Chains with Strong Hund's Rule Couplings - Ferromagnetism, Spin Gap, Singlet and Triplet Pairings. Journal of the Physical Society of Japan, 2001, 70, 547-557.	0.7	8
156	Superconductivity Driven by the Interband Coulomb Interaction and Implications for the Superconducting Mechanism of MgB2. Journal of the Physical Society of Japan, 2001, 70, 1218-1221.	0.7	30
157	Theoretical interpretation of the variety of spin gap in high-Tc cuprates. Journal of Physics and Chemistry of Solids, 2001, 62, 221-224.	1.9	0
158	Dissipative quantum effects in small Josephson junctions. Physica C: Superconductivity and Its Applications, 2001, 352, 149-152.	0.6	0
159	Theory of electron differentiation, flat dispersion andpseudogap phenomena. Journal of Physics and Chemistry of Solids, 2001, 62, 47-51.	1.9	4
160	Influence of a flat dispersion on the superconducting instability in doped Mott insulators. Journal of Physics and Chemistry of Solids, 2001, 62, 225-229.	1.9	0
161	Path-Integral Renormalization Group Method for Numerical Study on Ground States of Strongly Correlated Electronic Systems. Journal of the Physical Society of Japan, 2001, 70, 2287-2299.	0.7	78
162	Origin of G-type Antiferromagnetism and Orbital-Spin Structures in LaTiO3. Journal of the Physical Society of Japan, 2001, 70, 2872-2875.	0.7	33

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