Takashi Hotta

List of Publications by Year
in descending order

122	6,165	186265	66911
papers	citations	28 h-index	78 g-index

124	124	124	4325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colossal magnetoresistant materials: the key role of phase separation. Physics Reports, 2001, 344, 1-153.	25.6	3,346
2	Theory of superconductivity in strongly correlated electron systems. Physics Reports, 2003, 387, 1-149.	25.6	216
3	Impurity Effects in Cuprate Superconductors. Journal of the Physical Society of Japan, 1993, 62, 274-280.	1.6	162
4	Ferromagnetic,A-Type, and Charge-OrderedCE-Type States in Doped Manganites Using Jahn-Teller Phonons. Physical Review Letters, 2000, 84, 3714-3717.	7.8	156
5	Strong-coupling theory of superconductivity in a degenerate Hubbard model. Physical Review B, 2004, 69, .	3.2	155
6	Charge-orbital ordering and phase separation in the two-orbital model for manganites: Roles of Jahn-Teller phononic and Coulombic interactions. Physical Review B, 2000, 62, 9432-9452.	3.2	116
7	Orbital ordering phenomena in d- and f-electron systems. Reports on Progress in Physics, 2006, 69, 2061-2155.	20.1	107
8	Electronic Structure and the Fermi Surface ofPuCoGa5andNpCoGa5. Physical Review Letters, 2003, 90, 207007.	7.8	98
9	Construction of a microscopic model forf-electron systems on the basis of ajâ^'jcoupling scheme. Physical Review B, 2003, 67, .	3.2	86
10	Unveiling New Magnetic Phases of Undoped and Doped Manganites. Physical Review Letters, 2003, 90, 247203.	7.8	85
11	Relativistic Band-Structure Calculations for CeTIn5(T = Ir and Co) and Analysis of the Energy Bands by Using Tight-Binding Method. Journal of the Physical Society of Japan, 2003, 72, 854-864.	1.6	79
12	Prediction of Orbital Ordering in Single-Layered Ruthenates. Physical Review Letters, 2001, 88, 017201.	7.8	76
13	Topological Scenario for Stripe Formation in Manganese Oxides. Physical Review Letters, 2000, 84, 2477-2480.	7.8	71
14	Stripes Induced by Orbital Ordering in Layered Manganites. Physical Review Letters, 2001, 86, 4922-4925.	7.8	70
15	A-type antiferromagnetic andC-type orbital-ordered states inLaMnO3using cooperative Jahn-Teller phonons. Physical Review B, 1999, 60, R15009-R15012.	3.2	65
16	â€‡Microscopic theory of multipole ordering inNpO2. Physical Review B, 2005, 71, .	3.2	64
17	Competition between ferromagnetic and charge-orbital ordered phases inPr1â^'xCaxMnO3forx=14,38,and12. Physical Review B, 2000, 61, R11879-R11882.	3.2	56
18	Transition Temperatures in Cuprate Superconductors on the Basis ofd-pModel. Journal of the Physical Society of Japan, 1994, 63, 4126-4143.	1.6	51

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19	Pseudogap formation in an electronic system withd-wave attraction at low density. Physical Review B, 1999, 60, 13085-13093.	3.2	42
20	Quasi-Kondo Phenomenon due to the Dynamical Jahn-Teller Effect. Physical Review Letters, 2006, 96, 197201.	7.8	42
21	Orbital Ordering, New Phases, and Stripe Formation in Doped Layered Nickelates. Physical Review Letters, 2004, 92, 227201.	7.8	40
22	Analysis offâˆ’pmodel for octupole ordering inNpO2. Physical Review B, 2005, 72, .	3.2	39
23	Effective Crystalline Electric Field Potential in a jâ€“ j Coupling Scheme. Journal of the Physical Society of Japan, 2006, 75, 124711.	1.6	35
24	Kondo Effect in an Electron System with Dynamical Jahnâ€“Teller Impurity. Journal of the Physical Society of Japan, 2007, 76, 023705.	1.6	34
25	Effect of Rattling Phonons on Sommerfeld Constant. Journal of the Physical Society of Japan, 2008, 77, 103711.	1.6	34
26	Multipole ordering inf-electron systems on the basis of ajâˆ’jcoupling scheme. Physical Review B, 2005, 72, .	3.2	33
27	Double-Exchange Ferromagnetism and Orbital-Fluctuation-Induced Superconductivity in Cubic Uranium Compounds. Journal of the Physical Society of Japan, 2009, 78, 123710.	1.6	29
28	Bloch Electrons in a Jahn-Teller Crystal and an Orbital-Density-Wave State due to the Berry Phase. Physical Review Letters, 1998, 80, 4518-4521.	7.8	28
29	Multipole Fluctuations in Filled Skutterudites. Journal of the Physical Society of Japan, 2005, 74, 2425-2429.	1.6	28
30	Microscopic Approach to Magnetism and Superconductivity of f-Electron Systems with Filled Skutterudite Structure. Journal of the Physical Society of Japan, 2005, 74, 1275-1288.	1.6	26
31	Enhanced Kondo Effect in an Electron System Dynamically Coupled with Local Optical Phonon. Journal of the Physical Society of Japan, 2007, 76, 084702.	1.6	26
32	Role of the Berry Phase in the Formation of Stripes in Manganese Oxides. International Journal of Modern Physics B, 1998, 12, 3437-3455.	2.0	25
33	An orbital-based scenario for the magnetic structure of neptunium compounds. New Journal of Physics, 2004, 6, 193-193.	2.9	25
34	Inverse Isotope Effect on Kondo Temperature in Electron-Rattling System. Journal of the Physical Society of Japan, 2009, 78, 073707.	1.6	22
35	Two-Channel Kondo Effect Emerging from Nd Ions. Journal of the Physical Society of Japan, 2017, 86, 083704.	1.6	21
36	Existence of a metallic ferromagnetic phase in models for undoped manganites. Physical Review B, 2003, 67, .	3.2	20

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37	Orbital-Controlled Superconductivity in f-Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 083702.	1.6	20
38	Effect of Spinâ€“Orbit Coupling on Kondo Phenomena in f⁷-Electron Systems. Journal of the Physical Society of Japan, 2015, 84, 114707.	1.6	20
39	Influence of lattice structure on multipole interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Î“</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> non-Kramers doublet systems. Physical Review B, 2017, 95, .	3.2	20
40	Spin and orbital structure of uranium compounds on the basis of ajâ€jcoupling scheme. Physical Review B, 2004, 70, .	3.2	19
41	Effect of electron correlation on phonons in a strongly coupled electron-phonon system. Physical Review B, 1997, 56, 13916-13926.	3.2	18
42	Relativistic band-structure calculations for electronic properties of actinide dioxides. Journal of Magnetism and Magnetic Materials, 2007, 310, 754-756.	2.3	18
43	Magnetic Fluctuations of Filled Skutterudites Emerging in the Transition Region between Singlet and Triplet States. Physical Review Letters, 2005, 94, 067003.	7.8	17
44	Electronic properties of transuranium compounds with HoCoGa5-type tetragonal crystal structure. New Journal of Physics, 2006, 8, 24-24.	2.9	17
45	Multipole Susceptibility of Multiorbital Anderson Model Coupled with Jahnâ€“Teller Phonons. Journal of the Physical Society of Japan, 2007, 76, 034713.	1.6	17
46	Microscopic analysis of multipole susceptibility of actinide dioxides: A scenario of multipole ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>AmO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2009, 80, .	3.2	16
47	Strong-Coupling Theory of Rattling-Induced Superconductivity. Journal of the Physical Society of Japan, 2011, 80, 094712.	1.6	16
48	Perturbation study on the spin and charge susceptibilities of the two-dimensional Hubbard model. Physical Review B, 1996, 54, 5381-5388.	3.2	15
49	Fermi-surface topology and pairing symmetry in BiS2-based layered superconductors. Journal of Magnetism and Magnetic Materials, 2016, 400, 73-80.	2.3	15
50	Magnetic Susceptibility of Multiorbital Systems. Journal of the Physical Society of Japan, 2006, 75, 013702.	1.6	14
51	Multipole State of Heavy Lanthanide Filled Skutterudites. Journal of the Physical Society of Japan, 2007, 76, 083705.	1.6	14
52	Odd-Parity Triplet Pair Induced by Hundâ€™s Rule Coupling. Physical Review Letters, 2004, 92, 107007.	7.8	13
53	Origin of Superconductivity in Cuprate Oxide â€“Quantitative Analysis on the Basisofd-pModelâ€“. Journal of the Physical Society of Japan, 1993, 62, 4414-4425.	1.6	13
54	Unconventional superconductivity in the Hubbard-Holstein model. Physica B: Condensed Matter, 1997, 230-232, 1037-1040.	2.7	12

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55	Superconductivity in the Alkali-Doped Fullerides: Competition of Phonon-Mediated Attractions with Coulomb Repulsions in Polaron Pairing. International Journal of Modern Physics B, 1998, 12, 3042-3051.	2.0	12
56	Superconductivity in the orbital degenerate model for heavy fermion systems. Journal of Physics Condensed Matter, 2003, 15, S2087-S2093.	1.8	11
57	Field-Induced Multipole States of Sm-Based Filled Skutterudites. Journal of the Physical Society of Japan, 2008, 77, 074716.	1.6	11
58	Exotic Kondo effects in electronâ€“phonon systems. Physica B: Condensed Matter, 2008, 403, 1371-1372.	2.7	10
59	Theory of Manganites. , 2004, , 207-262.		10
60	Electric Dipolar Kondo Effect Emerging from a Vibrating Magnetic Ion. Physical Review Letters, 2012, 108, 247214.	7.8	9
61	Dynamical Localization-Delocalization Transition in the Infinite-Dimensional Hubbard-Holstein Model. Physical Review Letters, 1996, 76, 3180-3183.	7.8	8
62	Microscopic aspects of multipole properties of filled skutterudites. Journal of Magnetism and Magnetic Materials, 2007, 310, 1691-1697.	2.3	8
63	Electron Mass Enhancement Due to Anharmonic Local Phonons. Journal of the Physical Society of Japan, 2011, 80, SA134.	1.6	8
64	Magnetic behavior of curium dioxide with a nonmagnetic ground state. Physical Review B, 2011, 83, .	3.2	8
65	Comment on â€˜â€˜Impurity effects ind-wave superconductorsâ€™â€™. Physical Review B, 1995, 52, 13041-13043.	3.2	7
66	Fermi Surface of Heavy Fermion Compounds CeTIn5(T = Rh, Ir, and Co): Band-Calculation and Tight-Binding Approach. Journal of the Physical Society of Japan, 2002, 71, 285-287.	1.6	7
67	Effect of Hund's rule coupling on SU(4) spinâ€“orbital system. Journal of Magnetism and Magnetic Materials, 2007, 310, 790-792.	2.3	7
68	Microscopic Theory of Multipole Ordering in f-Electron Systems. Research Letters in Physics, 2012, 2012, 1-9.	0.2	7
69	Heavy-Electron Formation and Polaronâ€“Bipolaron Transition in the Anharmonic Holstein Model. Journal of the Physical Society of Japan, 2012, 81, 044701.	1.6	7
70	Local Nodal Cooper Pairs in Multiorbital Systems. Journal of the Physical Society of Japan, 2017, 86, 113702.	1.6	7
71	Quasi-Particle Density of States of Two-Dimensional Hubbard Model. Journal of the Physical Society of Japan, 1995, 64, 2923-2930.	1.6	6
72	STRIPE STRUCTURES AND THE BERRY-PHASE CONNECTION: CONCEPT OF GEOMETRIC ENERGY. International Journal of Modern Physics B, 1999, 13, 3778-3782.	2.0	6

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73	Multipole Ordering and Fluctuations inf-Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 232-237.	1.6	6
74	Kondo effect in the seven-orbital Anderson model hybridized with Î“8 conduction electrons. Physica B: Condensed Matter, 2018, 536, 203-210.	2.7	6
75	Impurity Effects in Nodal Extendeds- and Nodelessd-Wave Superconductors: Gap Symmetry of BiS2-Based Layered Superconductors. Journal of the Physical Society of Japan, 2018, 87, 114706.	1.6	6
76	Suppression of spin frustration due to orbital selection. Physical Review B, 2005, 71, .	3.2	5
77	Multipole asf-Electron Spin-Charge Density in Filled Skutterudites. Journal of the Physical Society of Japan, 2008, 77, 96-101.	1.6	5
78	Orbital ordering in manganites and ruthenates. Physica B: Condensed Matter, 2002, 312-313, 700-702.	2.7	4
79	Orbital-controlled magnetic transition between gapful and gapless phases in the Haldane system witht2g-orbital degeneracy. Physical Review B, 2004, 70, .	3.2	4
80	Multipole Correlations in Low-Dimensionalf-Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 266-269.	1.6	4
81	Magnetic and orbital fluctuations in filled skutterudites. Physica B: Condensed Matter, 2006, 378-380, 51-53.	2.7	4
82	Electric dipolar susceptibility of the Anderson-Holstein model. Journal of the Korean Physical Society, 2013, 62, 1874-1878.	0.7	4
83	Multipole interactions of Î“₃ non-Kramers doublet systems on cubic lattices. Journal of Physics: Conference Series, 2018, 969, 012096.	0.4	4
84	Effect of Phonon-Mediated Attraction on the Kondo Phenomenon Emerging from a Vibrating Magnetic Ion. , 2014, , .		4
85	Hopping-Integral Expansion from the Limit of Zero Bandwidth in the Infinite-Dimensional Hubbard-Holstein Model. Journal of the Physical Society of Japan, 1996, 65, 2922-2935.	1.6	3
86	Key role of orbital anisotropy in geometrically frustrated electron system. Physica B: Condensed Matter, 2005, 359-361, 669-671.	2.7	3
87	Multipoles in -Pu. Journal of Alloys and Compounds, 2007, 444-445, 162-167.	5.5	3
88	Antiferro-quadrupole State of Orbital-Degenerate Kondo Lattice Model withf2Configuration. Journal of the Physical Society of Japan, 2008, 77, 199-201.	1.6	3
89	Construction of a Microscopic Model for Yb and Tm Compounds on the Basis of ajâ€“jCoupling Scheme. Journal of the Physical Society of Japan, 2010, 79, 094705.	1.6	3
90	Weak-Coupling Theory for Multiband Superconductivity Induced by Jahnâ€“Teller Phonons. Journal of the Physical Society of Japan, 2010, 79, 023709.	1.6	3

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91	Quadrupole Susceptibility of Gd-Based Filled Skutterudite Compounds. Journal of the Physical Society of Japan, 2012, 81, 114720.	1.6	3
92	Kondo effect emerging from a spin-vibronic state. Journal of Physics: Conference Series, 2013, 428, 012013.	0.4	3
93	Two-Channel Kondo Effect Emerging from Np and Pu Ions. , 2020, , .		3
94	Quantum Critical Point between Two-Channel Kondo and Fermi-Liquid Phases. Journal of the Physical Society of Japan, 2020, 89, 114706.	1.6	3
95	High-Tc Superconductivity on the Basis of d-p Model. Progress of Theoretical Physics, 1994, 91, 1051-1056.	2.0	2
96	Dynamical localization and electron correlation. European Physical Journal D, 1996, 46, 2625-2626.	0.4	2
97	STRIPES IN MANGANITES. International Journal of Modern Physics B, 2000, 14, 3494-3499.	2.0	2
98	CONCLUDING REMARKS ON CMR AND RELATED PROBLEMS: CONFERENCE SUMMARY II. International Journal of Modern Physics B, 2001, 15, 4267-4270.	2.0	2
99	Superconductivity in f-electron systems controlled by crystalline electric fields. Journal of Magnetism and Magnetic Materials, 2007, 310, 572-574.	2.3	2
100	Kondo Effect of a Jahnâ€“Teller Ion Vibrating in a Cubic Anharmonic Potential. Journal of the Physical Society of Japan, 2014, 83, 104706.	1.6	2
101	Chaos in Jahnâ€“Teller Rattling. Journal of the Physical Society of Japan, 2014, 83, 083705.	1.6	2
102	Mean-field theory for multipole ordering in f-electron systems on the basis of a j-j coupling scheme. Physica B: Condensed Matter, 2018, 536, 6-11.	2.7	2
103	Microscopic approach to exotic superconductivity in f-electron systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E191-E192.	2.3	1
104	Effect of orbital fluctuations on magnetic properties of -electron systems. Physica B: Condensed Matter, 2005, 359-361, 1003-1005.	2.7	1
105	Relativistic Band-Structure Calculation for PrCoIn5: A Theoretical Approach to Pr-Based Compound from Itinerant Picture. Journal of the Physical Society of Japan, 2006, 75, 262-265.	1.6	1
106	Spin-charge-orbital ordering on triangle-based lattices. Physica B: Condensed Matter, 2006, 378-380, 589-591.	2.7	1
107	Magnetically robust multipole Kondo effect. Journal of Physics: Conference Series, 2009, 150, 042061.	0.4	1
108	Anomalous Isotope Effect in Rattling-Induced Superconductor. Journal of the Physical Society of Japan, 2012, 81, 114711.	1.6	1

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109	Key Role of Rutile Structure for Layered Magnetism in Chromium Compounds. Physics Procedia, 2015, 75, 671-678.	1.2	1
110	Relation between electron mass enhancement and potential shape: Numerical analysis of two-site anharmonic Holstein-Hubbard model. Journal of Physics: Conference Series, 2015, 592, 012144.	0.4	1
111	Microscopic Theory of Î“3 Quadrupole Ordering in Pr Compounds on the Basis of a jâ€“j Coupling Scheme. Journal of the Physical Society of Japan, 2019, 88, 034715.	1.6	1
112	High-T_c Superconductivity on the Basis of d-p Model. Progress of Theoretical Physics, 1994, 91, 1051-1056.	2.0	1
113	Three-Channel Kondo Effect Emerging from Ho Ions. Journal of the Physical Society of Japan, 2021, 90, 113701.	1.6	1
114	Electrons Dance in Pairs on the Kondo Stage. JPSJ News and Comments, 2012, 9, 19.	0.1	1
115	Theory of Manganites. ChemInform, 2003, 34, no.	0.0	0
116	Theory of Manganites. ChemInform, 2005, 36, no.	0.0	0
117	Stripe Charge Ordering in Triangular-Lattice Systems. AIP Conference Proceedings, 2006, , .	0.4	0
118	Electronic structure and the Fermi surface of in comparison with uranium and transuranium compounds. Physica B: Condensed Matter, 2006, 378-380, 1027-1028.	2.7	0
119	Spin-orbital gap of multiorbital antiferromagnet with geometrical frustration. Physical Review B, 2007, 75, .	3.2	0
120	Fermi-Surface Topology and Superconductivity Induced by Jahn-Teller Phonons. Journal of Physics: Conference Series, 2013, 428, 012038.	0.4	0
121	Quantum Interference of Surface-Induced Friedel Oscillations Enhanced by Fermi-Surface Nesting in Layered Manganites. Physics Procedia, 2015, 75, 902-910.	1.2	0
122	Valence Imbalance of Manganese Ions between Surface and Bulk Enhanced by Fermi-Surface Structure in Layered Manganites. Journal of Physics: Conference Series, 2016, 683, 012042.	0.4	0