

# Takashi Hotta

## List of Publications by Year in descending order

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docs citations

124  
times ranked

4325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Channel Kondo Effect Emerging from Ho Ions. Journal of the Physical Society of Japan, 2021, 90, 113701.	1.6	1
2	Two-Channel Kondo Effect Emerging from Np and Pu Ions. , 2020, , .		3
3	Quantum Critical Point between Two-Channel Kondo and Fermi-Liquid Phases. Journal of the Physical Society of Japan, 2020, 89, 114706.	1.6	3
4	Microscopic Theory of $\Gamma^3$ Quadrupole Ordering in Pr Compounds on the Basis of a $j\hat{e}j$ Coupling Scheme. Journal of the Physical Society of Japan, 2019, 88, 034715.	1.6	1
5	Kondo effect in the seven-orbital Anderson model hybridized with $\Gamma^8$ conduction electrons. Physica B: Condensed Matter, 2018, 536, 203-210.	2.7	6
6	Mean-field theory for multipole ordering in f-electron systems on the basis of a $j\hat{e}j$ coupling scheme. Physica B: Condensed Matter, 2018, 536, 6-11.	2.7	2
7	Multipole interactions of $\Gamma^3$ non-Kramers doublet systems on cubic lattices. Journal of Physics: Conference Series, 2018, 969, 012096.	0.4	4
8	Impurity Effects in Nodal Extended- and Nodeless-d-Wave Superconductors: Gap Symmetry of BiS <sub>2</sub> -Based Layered Superconductors. Journal of the Physical Society of Japan, 2018, 87, 114706.	1.6	6
9	Two-Channel Kondo Effect Emerging from Nd Ions. Journal of the Physical Society of Japan, 2017, 86, 083704.	1.6	21
10	Influence of lattice structure on multipole interactions in $\Gamma^3$ non-Kramers doublet systems. Physical Review B, 2017, 95, .	3.2	20
11	Local Nodal Cooper Pairs in Multiorbital Systems. Journal of the Physical Society of Japan, 2017, 86, 113702.	1.6	7
12	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
13	Fermi-surface topology and pairing symmetry in BiS <sub>2</sub> -based layered superconductors. Journal of Magnetism and Magnetic Materials, 2016, 400, 73-80.	2.3	15
14	Quantum Interference of Surface-Induced Friedel Oscillations Enhanced by Fermi-Surface Nesting in Layered Manganites. Physics Procedia, 2015, 75, 902-910.	1.2	0
15	Key Role of Rutile Structure for Layered Magnetism in Chromium Compounds. Physics Procedia, 2015, 75, 671-678.	1.2	1
16	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
17	Effect of Spin-Orbit Coupling on Kondo Phenomena in $f^7$ -Electron Systems. Journal of the Physical Society of Japan, 2015, 84, 114707.	1.6	20
18	Kondo Effect of a Jahn-Teller Ion Vibrating in a Cubic Anharmonic Potential. Journal of the Physical Society of Japan, 2014, 83, 104706.	1.6	2

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19	Chaos in Jahn-Teller Rattling. Journal of the Physical Society of Japan, 2014, 83, 083705.	1.6	2
20	Effect of Phonon-Mediated Attraction on the Kondo Phenomenon Emerging from a Vibrating Magnetic Ion. , 2014, , .		4
21	Electric dipolar susceptibility of the Anderson-Holstein model. Journal of the Korean Physical Society, 2013, 62, 1874-1878.	0.7	4
22	Kondo effect emerging from a spin-vibronic state. Journal of Physics: Conference Series, 2013, 428, 012013.	0.4	3
23	Fermi-Surface Topology and Superconductivity Induced by Jahn-Teller Phonons. Journal of Physics: Conference Series, 2013, 428, 012038.	0.4	0
24	Electric Dipolar Kondo Effect Emerging from a Vibrating Magnetic Ion. Physical Review Letters, 2012, 108, 247214.	7.8	9
25	Microscopic Theory of Multipole Ordering in f-Electron Systems. Research Letters in Physics, 2012, 2012, 1-9.	0.2	7
26	Anomalous Isotope Effect in Rattling-Induced Superconductor. Journal of the Physical Society of Japan, 2012, 81, 114711.	1.6	1
27	Quadrupole Susceptibility of Gd-Based Filled Skutterudite Compounds. Journal of the Physical Society of Japan, 2012, 81, 114720.	1.6	3
28	Heavy-Electron Formation and Polaron Bipolaron Transition in the Anharmonic Holstein Model. Journal of the Physical Society of Japan, 2012, 81, 044701.	1.6	7
29	Electrons Dance in Pairs on the Kondo Stage. JPSJ News and Comments, 2012, 9, 19.	0.1	1
30	Strong-Coupling Theory of Rattling-Induced Superconductivity. Journal of the Physical Society of Japan, 2011, 80, 094712.	1.6	16
31	Electron Mass Enhancement Due to Anharmonic Local Phonons. Journal of the Physical Society of Japan, 2011, 80, SA134.	1.6	8
32	Magnetic behavior of curium dioxide with a nonmagnetic ground state. Physical Review B, 2011, 83, .	3.2	8
33	Construction of a Microscopic Model for Yb and Tm Compounds on the Basis of a Jahn-Teller Coupling Scheme. Journal of the Physical Society of Japan, 2010, 79, 094705.	1.6	3
34	Weak-Coupling Theory for Multiband Superconductivity Induced by Jahn-Teller Phonons. Journal of the Physical Society of Japan, 2010, 79, 023709.	1.6	3
35	Microscopic analysis of multipole susceptibility of actinide dioxides: A scenario of multipole ordering in $AmO_2$ Physical Review B, 2009, 80, .	3.2	16
36	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

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37	Inverse Isotope Effect on Kondo Temperature in Electron-Rattling System. Journal of the Physical Society of Japan, 2009, 78, 073707.	1.6	22
38	Magnetically robust multipole Kondo effect. Journal of Physics: Conference Series, 2009, 150, 042061.	0.4	1
39	Exotic Kondo effects in electron-phonon systems. Physica B: Condensed Matter, 2008, 403, 1371-1372.	2.7	10
40	Effect of Rattling Phonons on Sommerfeld Constant. Journal of the Physical Society of Japan, 2008, 77, 103711.	1.6	34
41	Field-Induced Multipole States of Sm-Based Filled Skutterudites. Journal of the Physical Society of Japan, 2008, 77, 074716.	1.6	11
42	Antiferro-quadrupole State of Orbital-Degenerate Kondo Lattice Model with $f^2$ Configuration. Journal of the Physical Society of Japan, 2008, 77, 199-201.	1.6	3
43	Multipole and Electron Spin-Charge Density in Filled Skutterudites. Journal of the Physical Society of Japan, 2008, 77, 96-101.	1.6	5
44	Kondo Effect in an Electron System with Dynamical Jahn-Teller Impurity. Journal of the Physical Society of Japan, 2007, 76, 023705.	1.6	34
45	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
46	Multipoles in $\delta$ -Pu. Journal of Alloys and Compounds, 2007, 444-445, 162-167.	5.5	3
47	Spin-orbital gap of multiorbital antiferromagnet with geometrical frustration. Physical Review B, 2007, 75, .	3.2	0
48	Multipole State of Heavy Lanthanide Filled Skutterudites. Journal of the Physical Society of Japan, 2007, 76, 083705.	1.6	14
49	Multipole Susceptibility of Multiorbital Anderson Model Coupled with Jahn-Teller Phonons. Journal of the Physical Society of Japan, 2007, 76, 034713.	1.6	17
50	Relativistic band-structure calculations for electronic properties of actinide dioxides. Journal of Magnetism and Magnetic Materials, 2007, 310, 754-756.	2.3	18
51	Superconductivity in f-electron systems controlled by crystalline electric fields. Journal of Magnetism and Magnetic Materials, 2007, 310, 572-574.	2.3	2
52	Microscopic aspects of multipole properties of filled skutterudites. Journal of Magnetism and Magnetic Materials, 2007, 310, 1691-1697.	2.3	8
53	Effect of Hund's rule coupling on $SU(4)$ spin-orbital system. Journal of Magnetism and Magnetic Materials, 2007, 310, 790-792.	2.3	7
54	Orbital ordering phenomena in d- and f-electron systems. Reports on Progress in Physics, 2006, 69, 2061-2155.	20.1	107

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55	Stripe Charge Ordering in Triangular-Lattice Systems. AIP Conference Proceedings, 2006, , .	0.4	0
56	Magnetic Susceptibility of Multiorbital Systems. Journal of the Physical Society of Japan, 2006, 75, 013702.	1.6	14
57	Effective Crystalline Electric Field Potential in a $J$ Coupling Scheme. Journal of the Physical Society of Japan, 2006, 75, 124711.	1.6	35
58	Relativistic Band-Structure Calculation for $\text{PrCoIn}_5$ : A Theoretical Approach to Pr-Based Compound from Itinerant Picture. Journal of the Physical Society of Japan, 2006, 75, 262-265.	1.6	1
59	Multipole Correlations in Low-Dimensional $f$ -Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 266-269.	1.6	4
60	Multipole Ordering and Fluctuations in $f$ -Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 232-237.	1.6	6
61	Magnetic and orbital fluctuations in filled skutterudites. Physica B: Condensed Matter, 2006, 378-380, 51-53.	2.7	4
62	Spin-charge-orbital ordering on triangle-based lattices. Physica B: Condensed Matter, 2006, 378-380, 589-591.	2.7	1
63	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
64	Electronic properties of transuranium compounds with $\text{HoCoGa}_5$ -type tetragonal crystal structure. New Journal of Physics, 2006, 8, 24-24.	2.9	17
65	Orbital-Controlled Superconductivity in $f$ -Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 083702.	1.6	20
66	Quasi-Kondo Phenomenon due to the Dynamical Jahn-Teller Effect. Physical Review Letters, 2006, 96, 197201.	7.8	42
67	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
68	Multipole Fluctuations in Filled Skutterudites. Journal of the Physical Society of Japan, 2005, 74, 2425-2429.	1.6	28
69	Effect of orbital fluctuations on magnetic properties of $f$ -electron systems. Physica B: Condensed Matter, 2005, 359-361, 1003-1005.	2.7	1
70	Key role of orbital anisotropy in geometrically frustrated electron system. Physica B: Condensed Matter, 2005, 359-361, 669-671.	2.7	3
71	Theory of Manganites. ChemInform, 2005, 36, no.	0.0	0
72	$\mu$ Microscopic theory of multipole ordering in $\text{NpO}_2$ . Physical Review B, 2005, 71, .	3.2	64

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73	Analysis of a model for octupole ordering in NpO <sub>2</sub> . Physical Review B, 2005, 72, .	3.2	39
74	Suppression of spin frustration due to orbital selection. Physical Review B, 2005, 71, .	3.2	5
75	Multipole ordering in f-electron systems on the basis of a J <sub>eff</sub> coupling scheme. Physical Review B, 2005, 72, .	3.2	33
76	Magnetic Fluctuations of Filled Skutterudites Emerging in the Transition Region between Singlet and Triplet States. Physical Review Letters, 2005, 94, 067003.	7.8	17
77	Orbital Ordering, New Phases, and Stripe Formation in Doped Layered Nickelates. Physical Review Letters, 2004, 92, 227201.	7.8	40
78	Orbital-controlled magnetic transition between gapful and gapless phases in the Haldane system with 2g-orbital degeneracy. Physical Review B, 2004, 70, .	3.2	4
79	Odd-Parity Triplet Pair Induced by Hund's Rule Coupling. Physical Review Letters, 2004, 92, 107007.	7.8	13
80	Strong-coupling theory of superconductivity in a degenerate Hubbard model. Physical Review B, 2004, 69, .	3.2	155
81	Microscopic approach to exotic superconductivity in f-electron systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E191-E192.	2.3	1
82	Spin and orbital structure of uranium compounds on the basis of a J <sub>eff</sub> coupling scheme. Physical Review B, 2004, 70, .	3.2	19
83	An orbital-based scenario for the magnetic structure of neptunium compounds. New Journal of Physics, 2004, 6, 193-193.	2.9	25
84	Theory of Manganites. , 2004, , 207-262.		10
85	Theory of Manganites. ChemInform, 2003, 34, no.	0.0	0
86	Theory of superconductivity in strongly correlated electron systems. Physics Reports, 2003, 387, 1-149.	25.6	216
87	Electronic Structure and the Fermi Surface of PuCoGa <sub>5</sub> and NpCoGa <sub>5</sub> . Physical Review Letters, 2003, 90, 207007.	7.8	98
88	Unveiling New Magnetic Phases of Undoped and Doped Manganites. Physical Review Letters, 2003, 90, 247203.	7.8	85
89	Existence of a metallic ferromagnetic phase in models for undoped manganites. Physical Review B, 2003, 67, .	3.2	20
90	Construction of a microscopic model for f-electron systems on the basis of a J <sub>eff</sub> coupling scheme. Physical Review B, 2003, 67, .	3.2	86

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91	Superconductivity in the orbital degenerate model for heavy fermion systems. Journal of Physics Condensed Matter, 2003, 15, S2087-S2093.	1.8	11
92	Relativistic Band-Structure Calculations for CeTlIn5 (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
93	Fermi Surface of Heavy Fermion Compounds CeTlIn5 (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
94	Orbital ordering in manganites and ruthenates. Physica B: Condensed Matter, 2002, 312-313, 700-702.	2.7	4
95	Stripes Induced by Orbital Ordering in Layered Manganites. Physical Review Letters, 2001, 86, 4922-4925.	7.8	70
96	Colossal magnetoresistant materials: the key role of phase separation. Physics Reports, 2001, 344, 1-153.	25.6	3,346
97	CONCLUDING REMARKS ON CMR AND RELATED PROBLEMS: CONFERENCE SUMMARY II. International Journal of Modern Physics B, 2001, 15, 4267-4270.	2.0	2
98	Prediction of Orbital Ordering in Single-Layered Ruthenates. Physical Review Letters, 2001, 88, 017201.	7.8	76
99	STRIPES IN MANGANITES. International Journal of Modern Physics B, 2000, 14, 3494-3499.	2.0	2
100	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
101	Topological Scenario for Stripe Formation in Manganese Oxides. Physical Review Letters, 2000, 84, 2477-2480.	7.8	71
102	Competition between ferromagnetic and charge-orbital ordered phases in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ for $x=1/4, 3/8$ , and $1/2$ . Physical Review B, 2000, 61, R11879-R11882.	3.2	56
103	Ferromagnetic, A-Type, and Charge-Ordered CE-Type States in Doped Manganites Using Jahn-Teller Phonons. Physical Review Letters, 2000, 84, 3714-3717.	7.8	156
104	STRIPE STRUCTURES AND THE BERRY-PHASE CONNECTION: CONCEPT OF GEOMETRIC ENERGY. International Journal of Modern Physics B, 1999, 13, 3778-3782.	2.0	6
105	A-type antiferromagnetic and C-type orbital-ordered states in $\text{LaMnO}_3$ using cooperative Jahn-Teller phonons. Physical Review B, 1999, 60, R15009-R15012.	3.2	65
106	Pseudogap formation in an electronic system with d-wave attraction at low density. Physical Review B, 1999, 60, 13085-13093.	3.2	42
107	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
108	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

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109	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
110	Effect of electron correlation on phonons in a strongly coupled electron-phonon system. Physical Review B, 1997, 56, 13916-13926.	3.2	18
111	Unconventional superconductivity in the Hubbard-Holstein model. Physica B: Condensed Matter, 1997, 230-232, 1037-1040.	2.7	12
112	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
113	Dynamical localization and electron correlation. European Physical Journal D, 1996, 46, 2625-2626.	0.4	2
114	Perturbation study on the spin and charge susceptibilities of the two-dimensional Hubbard model. Physical Review B, 1996, 54, 5381-5388.	3.2	15
115	Dynamical Localization-Delocalization Transition in the Infinite-Dimensional Hubbard-Holstein Model. Physical Review Letters, 1996, 76, 3180-3183.	7.8	8
116	Quasi-Particle Density of States of Two-Dimensional Hubbard Model. Journal of the Physical Society of Japan, 1995, 64, 2923-2930.	1.6	6
117	Comment on "Impurity effects in d-wave superconductors". Physical Review B, 1995, 52, 13041-13042.	2.2	7
118	Transition Temperatures in Cuprate Superconductors on the Basis of d-p Model. Journal of the Physical Society of Japan, 1994, 63, 4126-4143.	1.6	51
119	High-T <sub>c</sub> Superconductivity on the Basis of d-p Model. Progress of Theoretical Physics, 1994, 91, 1051-1056.	2.0	2
120	High-T <sub>c</sub> Superconductivity on the Basis of d-p Model. Progress of Theoretical Physics, 1994, 91, 1051-1056.	2.0	1
121	Impurity Effects in Cuprate Superconductors. Journal of the Physical Society of Japan, 1993, 62, 274-280.	1.6	162
122	Origin of Superconductivity in Cuprate Oxide "Quantitative Analysis on the Basis of d-p Model". Journal of the Physical Society of Japan, 1993, 62, 4414-4425.	1.6	13