

Takami Tohyama

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130
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139
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4.96
L-index

#	Paper	IF	Citations
130	Observation of Spin-Charge Separation in One-Dimensional SrCuO ₂ . <i>Physical Review Letters</i> , 1996 , 77, 4054-4057	7.4	317
129	Apex oxygen and critical temperature in copper oxide superconductors: Universal correlation with the stability of local singlets. <i>Physical Review B</i> , 1991 , 43, 2968-2982	3.3	315
128	Electronic states and magnetic properties of edge-sharing Cu-O chains. <i>Physical Review B</i> , 1998 , 57, 5326-5335	3.5	258
127	Systematics of the Photoemission Spectral Function of Cuprates: Insulators and Hole- and Electron-Doped Superconductors. <i>Physical Review Letters</i> , 1998 , 80, 4245-4248	7.4	218
126	Electronic structure of mott insulators studied by inelastic X-ray scattering. <i>Science</i> , 2000 , 288, 1811-4	33.3	185
125	Distinct spinon and holon dispersions in photoemission spectral functions from one-dimensional SrCuO ₂ . <i>Nature Physics</i> , 2006 , 2, 397-401	16.2	153
124	Role of next-nearest-neighbor hopping in the t-t'QJ model. <i>Physical Review B</i> , 1994 , 49, 3596-3599	3.3	147
123	Angle-resolved photoemission in highTccuprates from theoretical viewpoints. <i>Superconductor Science and Technology</i> , 2000 , 13, R17-R32	3.1	127
122	Charge-transfer gap and superexchange interaction in insulating cuprates. <i>Physical Review Letters</i> , 1991 , 66, 1228-1231	7.4	121
121	Separation of spin and charge excitations in one-dimensional SrCuO ₂ . <i>Physical Review B</i> , 1997 , 56, 15589-15595	3.5	89
120	Momentum Dependence of Resonant Inelastic X-Ray Scattering Spectrum in Insulating Cuprates. <i>Physical Review Letters</i> , 1999 , 83, 3705-3708	7.4	88
119	Nonlinear optical response and spin-charge separation in one-dimensional Mott insulators. <i>Physical Review B</i> , 2000 , 62, R4769-R4773	3.3	84
118	Physical Parameters in Copper Oxide Superconductors. <i>Journal of the Physical Society of Japan</i> , 1990 , 59, 1760-1770	1.5	68
117	Momentum dependence of charge excitations in the electron-doped superconductor Nd _{1.85} Ce _{0.15} CuO ₄ : a resonant inelastic x-ray scattering study. <i>Physical Review Letters</i> , 2005 , 94, 207003	7.4	65
116	Spin and charge dynamics of the t-J model. <i>Physical Review Letters</i> , 1995 , 74, 980-983	7.4	65
115	Effect of Stripes on Electronic States in Underdoped La _{2-x} Sr _x CuO ₄ . <i>Physical Review Letters</i> , 1999 , 82, 4910-4913	7.4	64
114	Large third-order optical nonlinearity of Cu-O chains investigated by third-harmonic generation spectroscopy. <i>Physical Review Letters</i> , 2001 , 87, 177401	7.4	55

113	Mott gap excitations and resonant inelastic x-ray scattering in doped cuprates. <i>Physical Review Letters</i> , 2003 , 91, 117001	7.4	51
112	Transition temperature in copper-oxide superconductors correlated with energy level of apical oxygen. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 166, 385-387	1.3	51
111	Electronic States of Doped Spin Ladders (Sr,Ca) ₁₄ Cu ₂₄ O ₄₁ . <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 937-940	1.5	50
110	Stripe stability in the extended t-J model on planes and four-leg ladders. <i>Physical Review B</i> , 1999 , 59, R11649-R11652	3.3	49
109	Charge and spin in low-dimensional cuprates. <i>Reports on Progress in Physics</i> , 2001 , 64, 383-428	14.4	45
108	One-particle excitation spectra, optical conductivity and O 1s x-ray absorption spectra in high-Tc cuprates: a cluster model approach. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 191, 193-198	1.3	42
107	Mott gap excitations in twin-free YBa ₂ Cu ₃ O _{7-δ} (T _c =93 K) studied by resonant inelastic x-ray scattering. <i>Physical Review Letters</i> , 2005 , 94, 187002	7.4	39
106	Tight-binding calculations of the electronic structure and magnetic properties in ordered TPt ₃ (T=Ti, V, Cr, Mn, Fe and Co) alloys. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 1789-1798	1.8	38
105	Superexchange interaction in cuprates. <i>Physical Review B</i> , 1998 , 58, R14713-R14716	3.3	37
104	Resonant inelastic x-ray scattering in one-dimensional copper oxides. <i>Physical Review B</i> , 2000 , 61, 7180-7182	3.3	34
103	Quantum dynamics of a driven correlated system coupled to phonons. <i>Physical Review Letters</i> , 2011 , 107, 246404	7.4	33
102	Finite Temperature Effects in a One-Dimensional Mott-Hubbard Insulator: Angle-Resolved Photoemission Study of Na _{0.96} V ₂ O ₅ . <i>Physical Review Letters</i> , 1999 , 82, 803-806	7.4	33
101	Interchain interactions and magnetic properties of Li ₂ CuO ₂ . <i>Physical Review B</i> , 1999 , 60, 6230-6233	3.3	32
100	Effects of Carrier-Doping on Optical Conductivity in High-T _c Copper Oxides. <i>Journal of the Physical Society of Japan</i> , 1991 , 60, 53-56	1.5	32
99	Bipolaron in the t-J model coupled to longitudinal and transverse quantum lattice vibrations. <i>Physical Review Letters</i> , 2009 , 103, 186401	7.4	31
98	Modeling the antiferromagnetic phase in iron pnictides: weakly ordered state. <i>Physical Review Letters</i> , 2009 , 103, 247202	7.4	30
97	Origin of the spatial variation of the pairing gap in bi-based high temperature cuprate superconductors. <i>Physical Review Letters</i> , 2008 , 101, 247003	7.4	30
96	Enhanced charge order in a photoexcited one-dimensional strongly correlated system. <i>Physical Review Letters</i> , 2012 , 109, 197401	7.4	29

95	Spin Liquid State around a Doped Hole in Insulating Cuprates. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 9-12	1.5	27
94	Magnetic Interaction in Insulating Cuprates. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 389-393	1.3	27
93	Approximate Decoupling of Spin and Charge Excitations in the Two-Dimensional-t-J Model. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 1902-1905	1.5	27
92	Metamagnetic transition of ScCo ₂ and LuCo ₂ . <i>Journal of Physics F: Metal Physics</i> , 1987 , 17, L163-L167		27
91	Resonant two-magnon Raman scattering and photoexcited States in two-dimensional mott insulators. <i>Physical Review Letters</i> , 2002 , 89, 257405	7.4	25
90	The itinerant electron metamagnetism for ScCo ₂ , YCo ₂ and LuCo ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 70, 44-46	2.8	23
89	First-principles generalized gradient approximation (GGA)+Ud+Up studies of electronic structures and optical properties in cubic HfO ₂ . <i>Computational Materials Science</i> , 2014 , 81, 397-401	3.2	21
88	LaPd ₂ Sb ₂ : A pnictide superconductor with CaBe ₂ Ge ₂ type structure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 151-154	5.7	20
87	Photoinduced in-gap excitations in the one-dimensional extended Hubbard model. <i>Physical Review B</i> , 2015 , 91,	3.3	18
86	Cluster analyses of electronic states in electron-doped copper oxide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 158, 525-530	1.3	17
85	Anomalous low-energy excitations in strongly correlated electron systems. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 263, 61-65	1.3	13
84	Magnetic properties of Y(Fe-Co) ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 409-412	2.8	13
83	Density-Matrix Renormalization Group Study of Kitaev-Heisenberg Model on a Triangular Lattice. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 114710	1.5	13
82	Static and dynamic magnetic properties of the spin-1/2 inequilateral diamond-chain compounds A ₃ Cu ₃ AlO ₂ (SO ₄) ₄ (A=K,Rb,Cs). <i>Physical Review B</i> , 2017 , 95,	3.3	12
81	Enhanced charge excitations in electron-doped cuprates by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2015 , 92,	3.3	12
80	Effect of magnetic frustration on the single-hole spectral function in the t-J model. <i>Physical Review B</i> , 1999 , 59, 1840-1844	3.3	11
79	Finite-temperature properties of the Kitaev-Heisenberg models on kagome and triangular lattices studied by improved finite-temperature Lanczos methods. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
78	Exact diagonalization study of magnetic properties at finite temperatures in the t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 215, 382-390	1.3	10

77	Observation of small Fermi pockets protected by clean CuO sheets of a high- superconductor. <i>Science</i> , 2020 , 369, 833-838	33.3	10
76	Gapless spin liquid in a square-kagome lattice antiferromagnet. <i>Nature Communications</i> , 2020 , 11, 3429	17.4	9
75	Magnetization plateaus in the spin-12 antiferromagnetic Heisenberg model on a kagome-strip chain. <i>Physical Review B</i> , 2018 , 97,	3.3	9
74	Incident-energy-dependent spectral weight of resonant inelastic x-ray scattering in doped cuprates. <i>Physical Review B</i> , 2016 , 94,	3.3	9
73	Spectral weight of resonant inelastic X-ray scattering in doped cuprates: Effect of core-hole lifetime. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1840017	1.1	9
72	Ground-state phase diagram of the Kitaev-Heisenberg model on a kagome lattice. <i>Physical Review B</i> , 2018 , 98,	3.3	9
71	Dispersion relation of charge gap excitations in quasi-1D Mott insulators studied by resonant X-ray scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2005 , 66, 2212-2215	3.9	8
70	Magnetic properties of Zr(Fe-Co) ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 413-416	2.8	8
69	Dynamical density matrix renormalization group study of spin and charge excitations in the four-leg ladder. <i>Physical Review B</i> , 2018 , 97,	3.3	7
68	Ground state phase diagram of the Kitaev-Heisenberg model on a honeycomb-triangular lattice. <i>Physical Review B</i> , 2018 , 98,	3.3	7
67	Enhanced pairing correlations near oxygen dopants in cuprate superconductors. <i>Physical Review Letters</i> , 2010 , 105, 257005	7.4	7
66	Evolution of the hyperfine parameters of Fe in superconducting LiFeAs as observed by ⁵⁷ Fe Mössbauer spectroscopy. <i>Solid State Communications</i> , 2010 , 150, 1525-1528	1.6	7
65	Predicted Weyl fermions in magnetic GdBi and GdSb. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750217	1.1	6
64	Doublon-holon pairing mechanism via exchange interaction in two-dimensional cuprate Mott insulators. <i>Science Advances</i> , 2019 , 5, eaav2187	14.3	6
63	Magnetic orders induced by RKKY interaction in Tsai-type quasicrystalline approximant Au-Al-Gd. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
62	Antiphase Oscillations in the Time-Resolved Spin Structure Factor of a Photoexcited Mott Insulator. <i>Physical Review Letters</i> , 2021 , 126, 127404	7.4	6
61	Majorana Zero-Energy Mode and Fractal Structure in Fibonacci Kitaev Chain. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 114707	1.5	5
60	Spin and charge excitations and photoemission spectra in 1D and 2D cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 1897-1901	3.9	5

59	Effect of Electron Correlation on Phonon Spectra in Cuprates. <i>Journal of Low Temperature Physics</i> , 2003 , 131, 257-261	1.3	5
58	Electronic States of Cuprate Superconductors with Apical Halogen. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 667-670	1.5	5
57	Correlation effects in x-ray spectra of Ni and Ni in Ni ₃ Mo. <i>Physical Review B</i> , 1994 , 49, 14165-14171	3.3	5
56	Syntheses and first-principles calculations of the pseudobrookite compound AlTi ₂ O ₅ . <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 127, 252-257	3.9	4
55	Machine Learning Phase Diagram in the Half-filled One-dimensional Extended Hubbard Model. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 065001	1.5	4
54	Pressure effects on Dirac fermions in α (BEDT-TTF) β . <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 464202	1.8	4
53	Effect of Fermi Surface Topology on Inter-Layer Magnetoresistance in Layered Multiband Systems: Application to LaFeAsO _{1-x} F _x . <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 114702	1.5	4
52	Temperature dependence of the electronic structure of Sr ₁₄ Cu ₂₄ O ₄₁ studied by resonant inelastic X-ray scattering. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S145-S146	1.3	4
51	EFFECT OF SPIN GAP ON SINGLE-HOLE EXCITATION SPECTRUM IN THE ONE-DIMENSIONAL t-t' MODEL. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 1864-1866	3.9	4
50	Theory of RIXS in strongly correlated electron systems: Mott gap excitations in cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2005 , 66, 2139-2144	3.9	4
49	Effect of four-spin interaction on magnetic excitation in ladder and 2D insulating cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 273-276	3.9	4
48	High-Harmonic Generation Approaching the Quantum Critical Point of Strongly Correlated Systems.. <i>Physical Review Letters</i> , 2022 , 128, 047401	7.4	4
47	Kondo resonance from p-wave hybridization in graphene. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 415601	1.8	3
46	Double-pulse deexcitations in a one-dimensional strongly correlated system. <i>Europhysics Letters</i> , 2013 , 103, 57005	1.6	3
45	Momentum-resolved charge excitations in high-T _c cuprates studied by resonant inelastic X-ray scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3118-3124	3.9	3
44	Numerically exact diagonalization study of Drude weight and chemical potential in two-dimensional Hubbard model. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2210-2213	3.9	3
43	Role of Stripes in Spin and Charge Dynamics of Underdoped La _{2-x} Sr _x CuO ₄ . <i>Journal of Low Temperature Physics</i> , 1999 , 117, 211-215	1.3	3
42	Photoinduced charge carrier dynamics in Hubbard two-leg ladders and chains. <i>Physical Review B</i> , 2019 , 99,	3.3	2

41	Analysis of time-resolved single-particle spectrum on the one-dimensional extended Hubbard model. <i>Physical Review B</i> , 2020 , 101,	3.3	2
40	Theory of Cu L-edge resonant inelastic X-ray scattering in insulating cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 274-276	3.9	2
39	Nonlinear optical response in one-dimensional Mott insulators. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 1599-1602	3.9	2
38	Magnetic properties of the pseudobinary alloy (Cr-Mn)Pt ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 1989 , 78, 412-414	2.8	2
37	Vanishing Wilson ratio as the hallmark of quantum spin-liquid models. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
36	A small shoulder of optical absorption in polycrystalline HfO ₂ by LDA+U approach. <i>Solid State Communications</i> , 2016 , 244, 28-32	1.6	2
35	Biexciton in one-dimensional Mott insulators. <i>Communications Physics</i> , 2019 , 2,	5.4	2
34	Resonant inelastic X-ray scattering in strongly correlated electron systems. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 200, 209-215	1.7	1
33	Characterization of photoexcited states in the half-filled one-dimensional extended Hubbard model assisted by machine learning. <i>Physical Review B</i> , 2020 , 101,	3.3	1
32	Charge and spin dynamics in antiferromagnetic metallic phase of iron-based superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 315-318	3.9	1
31	Modeling of pressure effects in striped nickelates. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S247-S248	1.3	1
30	Interlayer magnetoresistance theory for layered Dirac fermion systems: Application to. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 763-766	3	1
29	ELECTRONIC STATES AND EXCITATION SPECTRA OF COPPER OXIDES WITH LADDER AND/OR CHAIN. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 2224-2226	3.9	1
28	Effect of Electron-Phonon Interaction on Optical Properties in One-Dimensional Mott Insulators. <i>Progress of Theoretical Physics Supplement</i> , 2008 , 176, 165-181		1
27	Theoretical study of resonant inelastic X-ray scattering in ladder cuprates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 972-974	2.8	1
26	Effect of Kondo resonance on optical third harmonic generation. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 960-962	2.8	1
25	NUMERICAL STUDY OF THE ELECTRONIC STATES IN HOLE- AND ELECTRON-DOPED HIGH-TC CUPRATES. <i>International Journal of Modern Physics B</i> , 2005 , 19, 115-117	1.1	1
24	Doping dependence of electronic excitations in high T _c superconducting cuprates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 63, 159-162	3.1	1

23	Anomalous spectral function of the 1D and 2Dt-J models. <i>European Physical Journal D</i> , 1996 , 46, 1953-1954		1
22	Tight-binding calculation of the local moments in ordered FeV alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1988 , 75, 193-196	2.8	1
21	Nuclear Quadrupole Resonance Frequency in Multilayered Cuprates. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 123704	1.5	1
20	Multipolar nematic state of nonmagnetic FeSe based on DFT+U. <i>Physical Review B</i> , 2021 , 104,	3.3	1
19	Cluster-based Haldane states in spin-1/2 cluster chains. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
18	Spin Dynamics in the tJ ₁ Model: Dynamical Density-Matrix Renormalization Group Study. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 124709	1.5	1
17	Theory of resonant inelastic X-ray scattering spectrum for Ni impurities in cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 354-357	3.9	0
16	Optical conductivity of antiferromagnetic metallic chromium: Mean-field calculation for the multi-orbital Hubbard model. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 632-635	0.6	
15	Parameter dependence of optical conductivity in antiferromagnetic phase of iron pnictides. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 666-669	1.3	
14	Fermi surface topology effect on interlayer magnetoresistance with in-plane magnetic field in layered multiband system: Application to FeAs-based superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 95-97	1.3	
13	Induced order in nonequivalent two-layer system. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S921-S922	1.3	
12	Theoretical study of resonant inelastic X-ray scattering spectrum in the Hubbard ladder. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S232-S233	1.3	
11	Resonant inelastic X-ray scattering of La ₂ Cu _{0.95} Ni _{0.05} O ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S155-S157	1.3	
10	Pressure dependence of interlayer magnetoresistance in. <i>Physica B: Condensed Matter</i> , 2010 , 405, S157-S159		
9	Effect of electron-phonon coupling on spin-charge separation in one-dimensional strongly correlated electron systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 975-977	2.8	
8	Symmetry of magnetic excitons in two-dimensional Mott insulators. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e255-e257	2.8	
7	Exact diagonalization study on nonmagnetic impurity effects in high- superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3365-3368	3.9	
6	Effect of electron-phonon interaction on optical response in one-dimensional cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3070-3073	3.9	

- 5 Spectral function and dynamical spin correlation function in the t - J model. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 3176-3180 3.9
- 4 Effect of frustration on optical conductivity in a two-dimensional triangular Hubbard model near half filling. *Journal of Physics Condensed Matter*, **2007**, 19, 145287 1.8
- 3 Spectral function in hole- and electron-doped high- T_c cuprates. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 632-634 3.9
- 2 Charge dynamics in electron-underdoped high- T_c cuprates. *Journal of Physics and Chemistry of Solids*, **2002**, 63, 2357-2359 3.9
- 1 Effect of charge stripes on electronic and magnetic properties in high- T_c cuprates. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 269-271 3.9