

Takami Tohyama

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

3,668
citations

31
h-index

59
g-index

139
ext. papers

4,000
ext. citations

4.2
avg. IF

4.96
L-index

#	Paper	IF	Citations
130	High-Harmonic Generation Approaching the Quantum Critical Point of Strongly Correlated Systems.. <i>Physical Review Letters</i> , 2022 , 128, 047401	7.4	4
129	Multipolar nematic state of nonmagnetic FeSe based on DFT+U. <i>Physical Review B</i> , 2021 , 104,	3.3	1
128	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
127	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
126	Gapless spin liquid in a square-kagome lattice antiferromagnet. <i>Nature Communications</i> , 2020 , 11, 3429	17.4	9
125	Analysis of time-resolved single-particle spectrum on the one-dimensional extended Hubbard model. <i>Physical Review B</i> , 2020 , 101,	3.3	2
124	Magnetic orders induced by RKKY interaction in Tsai-type quasicrystalline approximant Au-Al-Gd. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
123	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
122	Vanishing Wilson ratio as the hallmark of quantum spin-liquid models. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
121	Cluster-based Haldane states in spin-1/2 cluster chains. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
120	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
119	Observation of small Fermi pockets protected by clean CuO sheets of a high- superconductor. <i>Science</i> , 2020 , 369, 833-838	33.3	10
118	Photoinduced charge carrier dynamics in Hubbard two-leg ladders and chains. <i>Physical Review B</i> , 2019 , 99,	3.3	2
117	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
116	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
115	Doublon-holon pairing mechanism via exchange interaction in two-dimensional cuprate Mott insulators. <i>Science Advances</i> , 2019 , 5, eaav2187	14.3	6
114	Biexciton in one-dimensional Mott insulators. <i>Communications Physics</i> , 2019 , 2,	5.4	2

113	Magnetization plateaus in the spin-12 antiferromagnetic Heisenberg model on a kagome-strip chain. <i>Physical Review B</i> , 2018 , 97,	3.3	9
112	Dynamical density matrix renormalization group study of spin and charge excitations in the four-leg t-J ladder. <i>Physical Review B</i> , 2018 , 97,	3.3	7
111	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
110	Ground state phase diagram of the Kitaev-Heisenberg model on a honeycomb-triangular lattice. <i>Physical Review B</i> , 2018 , 98,	3.3	7
109	Ground-state phase diagram of the Kitaev-Heisenberg model on a kagome lattice. <i>Physical Review B</i> , 2018 , 98,	3.3	9
108	Predicted Weyl fermions in magnetic GdBi and GdSb. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750217	1.1	6
107	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
106	Static and dynamic magnetic properties of the spin-12 inequilateral diamond-chain compounds $A_3Cu_3AlO_2(SO_4)_4$ (A=K,Rb,Cs). <i>Physical Review B</i> , 2017 , 95,	3.3	12
105	Incident-energy-dependent spectral weight of resonant inelastic x-ray scattering in doped cuprates. <i>Physical Review B</i> , 2016 , 94,	3.3	9
104	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
103	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
102	Photoinduced in-gap excitations in the one-dimensional extended Hubbard model. <i>Physical Review B</i> , 2015 , 91,	3.3	18
101	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
100	Enhanced charge excitations in electron-doped cuprates by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2015 , 92,	3.3	12
99	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
98	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
97	Kondo resonance from p-wave hybridization in graphene. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 415601	1.8	3
96	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	

95	Double-pulse deexcitations in a one-dimensional strongly correlated system. <i>Europhysics Letters</i> , 2013 , 103, 57005	1.6	3
94	Enhanced charge order in a photoexcited one-dimensional strongly correlated system. <i>Physical Review Letters</i> , 2012 , 109, 197401	7.4	29
93	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	
92	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
91	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
90	Pressure effects on Dirac fermions in α (BEDT-TTF). <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 464202	1.8	4
89	Quantum dynamics of a driven correlated system coupled to phonons. <i>Physical Review Letters</i> , 2011 , 107, 246404	7.4	33
88	Enhanced pairing correlations near oxygen dopants in cuprate superconductors. <i>Physical Review Letters</i> , 2010 , 105, 257005	7.4	7
87	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	
86	Induced order in nonequivalent two-layer system. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S921-S922	1.3	
85	Modeling of pressure effects in striped nickelates. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S247-S248	1.3	1
84	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	
83	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
82	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	
81	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
80	Pressure dependence of interlayer magnetoresistance in. <i>Physica B: Condensed Matter</i> , 2010 , 405, S157-S159		
79	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
78	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

77	Modeling the antiferromagnetic phase in iron pnictides: weakly ordered state. <i>Physical Review Letters</i> , 2009 , 103, 247202	7.4	30
76	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
75	Nuclear Quadrupole Resonance Frequency in Multilayered Cuprates. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 123704	1.5	1
74	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
73	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
72	Exact diagonalization study on nonmagnetic impurity effects in high- <i>T_c</i> superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3365-3368	3.9	
71	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	
70	Momentum-resolved charge excitations in high- <i>T_c</i> cuprates studied by resonant inelastic X-ray scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3118-3124	3.9	3
69	Spectral function and dynamical spin correlation function in the t - J model. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 3176-3180	3.9	
68	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
67	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	
66	Effect of Kondo resonance on optical third harmonic generation. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 960-962	2.8	1
65	Symmetry of magnetic excitons in two-dimensional Mott insulators. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e255-e257	2.8	
64	Effect of frustration on optical conductivity in a two-dimensional triangular Hubbard model near half filling. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 145287	1.8	
63	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
62	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
61	Spectral function in hole- and electron-doped high- <i>T_c</i> cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 632-634	3.9	
60	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

59	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
58	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
57	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
56	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
55	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
54	Effect of Electron Correlation on Phonon Spectra in Cuprates. <i>Journal of Low Temperature Physics</i> , 2003 , 131, 257-261	1.3	5
53	Mott gap excitations and resonant inelastic x-ray scattering in doped cuprates. <i>Physical Review Letters</i> , 2003 , 91, 117001	7.4	51
52	Nonlinear optical response in one-dimensional Mott insulators. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 1599-1602	3.9	2
51	Charge dynamics in electron-underdoped high-T _c cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 2357-2359	3.9	
50	Resonant two-magnon Raman scattering and photoexcited States in two-dimensional mott insulators. <i>Physical Review Letters</i> , 2002 , 89, 257405	7.4	25
49	Effect of charge stripes on electronic and magnetic properties in high-T _c cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 269-271	3.9	
48	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
47	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
46	Charge and spin in low-dimensional cuprates. <i>Reports on Progress in Physics</i> , 2001 , 64, 383-428	14.4	45
45	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
44	Resonant inelastic x-ray scattering in one-dimensional copper oxides. <i>Physical Review B</i> , 2000 , 61, 7180-7182	7.4	34
43	Nonlinear optical response and spin-charge separation in one-dimensional Mott insulators. <i>Physical Review B</i> , 2000 , 62, R4769-R4773	3.3	84
42	Angle-resolved photoemission in highT _c cuprates from theoretical viewpoints. <i>Superconductor Science and Technology</i> , 2000 , 13, R17-R32	3.1	127

41	Electronic structure of mott insulators studied by inelastic X-ray scattering. <i>Science</i> , 2000 , 288, 1811-4	33.3	185
40	Effect of Stripes on Electronic States in Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1999 , 82, 4910-4913	7.4	64
39	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
38	Momentum Dependence of Resonant Inelastic X-Ray Scattering Spectrum in Insulating Cuprates. <i>Physical Review Letters</i> , 1999 , 83, 3705-3708	7.4	88
37	Interchain interactions and magnetic properties of Li_2CuO_2 . <i>Physical Review B</i> , 1999 , 60, 6230-6233	3.3	32
36	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
35	Role of Stripes in Spin and Charge Dynamics of Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 211-215	1.3	3
34	Magnetic Interaction in Insulating Cuprates. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 389-393	1.3	27
33	Finite Temperature Effects in a One-Dimensional Mott-Hubbard Insulator: Angle-Resolved Photoemission Study of $\text{Na}_{0.96}\text{V}_2\text{O}_5$. <i>Physical Review Letters</i> , 1999 , 82, 803-806	7.4	33
32	Effect of magnetic frustration on the single-hole spectral function in the t - J - J' model. <i>Physical Review B</i> , 1999 , 59, 1840-1844	3.3	11
31	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
30	EFFECT OF SPIN GAP ON SINGLE-HOLE EXCITATION SPECTRUM IN THE ONE-DIMENSIONAL t - J - J' MODEL. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 1864-1866	3.9	4
29	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
28	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
27	Electronic states and magnetic properties of edge-sharing Cu-O chains. <i>Physical Review B</i> , 1998 , 57, 5326-5335	3.3	258
26	Superexchange interaction in cuprates. <i>Physical Review B</i> , 1998 , 58, R14713-R14716	3.3	37
25	Electronic States of Doped Spin Ladders $(\text{Sr,Ca})_{14}\text{Cu}_{24}\text{O}_{41}$. <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 937-940	1.5	50
24	Separation of spin and charge excitations in one-dimensional SrCuO_2 . <i>Physical Review B</i> , 1997 , 56, 15589-15593	3.3	39

23	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
22	Observation of Spin-Charge Separation in One-Dimensional SrCuO ₂ . <i>Physical Review Letters</i> , 1996 , 77, 4054-4057	7.4	317
21	Electronic States of Cuprate Superconductors with Apical Halogen. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 667-670	1.5	5
20	Anomalous spectral function of the 1D and 2D t - J models. <i>European Physical Journal D</i> , 1996 , 46, 1953-1954		1
19	Anomalous low-energy excitations in strongly correlated electron systems. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 263, 61-65	1.3	13
18	Spin and charge dynamics of the t - J model. <i>Physical Review Letters</i> , 1995 , 74, 980-983	7.4	65
17	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
16	Role of next-nearest-neighbor hopping in the t - t' - J model. <i>Physical Review B</i> , 1994 , 49, 3596-3599	3.3	147
15	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
14	One-particle excitation spectra, optical conductivity and O 1s x-ray absorption spectra in high-T _c cuprates: a cluster model approach. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 191, 193-198	1.3	42
13	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
12	Charge-transfer gap and superexchange interaction in insulating cuprates. <i>Physical Review Letters</i> , 1991 , 66, 1228-1231	7.4	121
11	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
10	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
9	Physical Parameters in Copper Oxide Superconductors. <i>Journal of the Physical Society of Japan</i> , 1990 , 59, 1760-1770	1.5	68
8	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
7	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
6	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

5	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
4	Metamagnetic transition of ScCo ₂ and LuCo ₂ . <i>Journal of Physics F: Metal Physics</i> , 1987 , 17, L163-L167		27
3	Magnetic properties of Y(Fe-Co) ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 409-412	2.8	13
2	Magnetic properties of Zr(Fe-Co) ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 413-416	2.8	8
1	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