

Makoto Hashimoto

List of Publications by Year in descending order

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113
papers

8,072
citations

61984

43
h-index

46799

89
g-index

116
all docs

116
docs citations

116
times ranked

8076
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. <i>Science</i> , 2010, 329, 659-662.	12.6	1,051
2	Quantum spin Hall state in monolayer 1T'-WTe ₂ . <i>Nature Physics</i> , 2017, 13, 683-687.	16.7	596
3	Interfacial mode coupling as the origin of the enhancement of T _c in FeSe films on SrTiO ₃ . <i>Nature</i> , 2014, 515, 245-248.	27.8	567
4	Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe _{1-x} Co _x)T _j ETQq0.0 rgBT /Overlock 10 the National Academy of Sciences of the United States of America, 2011, 108, 6878-6883.	7.1	464
5	Creation and control of a two-dimensional electron liquid at the bare SrTiO ₃ surface. <i>Nature Materials</i> , 2011, 10, 114-118.	27.5	448
6	From a Single-Band Metal to a High-Temperature Superconductor via Two Thermal Phase Transitions. <i>Science</i> , 2011, 331, 1579-1583.	12.6	292
7	Energy gaps in high-transition-temperature cuprate superconductors. <i>Nature Physics</i> , 2014, 10, 483-495.	16.7	256
8	Phase competition in trisected superconducting dome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18332-18337.	7.1	222
9	Anomalous Hall effect in ZrTe ₅ . <i>Nature Physics</i> , 2018, 14, 451-455.	16.7	192
10	Observation of Temperature-Induced Crossover to an Orbital-Selective Mott Phase in $A_{1-x}Fe_x$		

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19	Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212. Science, 2018, 362, 62-65.	12.6	98
20	Evidence for a higher-order topological insulator in a three-dimensional material built from van der Waals stacking of bismuth-halide chains. Nature Materials, 2021, 20, 473-479.	27.5	98
21	Superconducting Gap Anisotropy in Monolayer FeSe Thin Film. Physical Review Letters, 2016, 117, 117001.	7.8	93
22	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi2Sr2CaCu2O8+δ. Nature Materials, 2015, 14, 37-42.	27.5	92
23	Superconducting graphene sheets in CaC6 enabled by phonon-mediated interband interactions. Nature Communications, 2014, 5, 3493.	12.8	91
24	Photoemission from Buried Interfaces in SrTiO3/LaTiO3 Superlattices. Physical Review Letters, 2006, 97, 057601.	7.8	90
25	Coexistence of Replica Bands and Superconductivity in FeSe Monolayer Films. Physical Review Letters, 2017, 118, 067002.	7.8	86
26	Incoherent strange metal sharply bounded by a critical doping in Bi2212. Science, 2019, 366, 1099-1102.	12.6	86
27	Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. Physical Review B, 2016, 94, .	3.2	80
28	Distinct Electronic Structure for the Extreme Magnetoresistance in YSb. Physical Review Letters, 2016, 117, 267201.	7.8	77
29	Three-dimensional nature of the band structure of $ZrTe_5$ measured by high-momentum-resolution photoemission spectroscopy. Physical Review B, 2017, 95, .	7.8	74
30	Doping evolution of the electronic structure in the single-layer cuprate $Sr_{1-x}La_xCuO_2$ by angle-resolved photoemission spectroscopy. Physical Review B, 2008, 77, .	3.2	71
31	Nematic Energy Scale and the Missing Electron Pocket in FeSe. Physical Review X, 2019, 9, .	8.9	66
32	Distinct doping dependences of the pseudogap and superconducting gap of $La_{2-x}Sr_xCuO_4$ cuprate superconductors. Physical Review B, 2007, 75, .	3.2	65
33	Anomalously strong near-neighbor attraction in doped 1D cuprate chains. Science, 2021, 373, 1235-1239.	12.6	62
34	Mass renormalization in the bandwidth-controlled Mott-Hubbard systems $SrVO_3$ enhanced superconducting gaps in the trilayer high-temperature $CaVO_3$ by angle-resolved photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	61
35	Enhanced Superconducting Gaps in the Trilayer High-Temperature $CaVO_3$ by angle-resolved photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	61
36	Direct observation of bulk charge modulations in optimally doped $Bi_{1-x}Sr_xO_2$. Physical Review B, 2014, 89, .	3.2	60

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37	Visualization of the strain-induced topological phase transition in a quasi-one-dimensional superconductor TaSe ₃ . Nature Materials, 2021, 20, 1093-1099.	27.5	57
38	Band-Resolved Imaging of Photocurrent in a Topological Insulator. Physical Review Letters, 2019, 122, 167401.	7.8	55
39	Ubiquitous strong electron-phonon coupling at the interface of FeSe/SrTiO ₃ . Nature Communications, 2017, 8, 14468.	12.8	51
40	Inequivalence of Single-Particle and Population Lifetimes in a Cuprate Superconductor. Physical Review Letters, 2015, 114, 247001.	7.8	49
41	Measurement of Coherent Polarons in the Strongly Coupled Antiferromagnetically Ordered Iron-Chalcogenide Fe_{1-x}Te using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2013, 110, 037003.	7.8	46
42	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, .	3.2	46
43	Electronic structure of monolayer 1T-MoTe ₂ grown by molecular beam epitaxy. APL Materials, 2018, 6, .	5.1	44
44	Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spin-orbit correlated metal. Nature Materials, 2015, 14, 577-582.	27.5	43
45	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS ₂ . Nature Communications, 2021, 12, 2874.	12.8	43
46	Origin of the low critical observing temperature of the quantum anomalous Hall effect in V-doped (Bi, Sb) ₂ Te ₃ film. Scientific Reports, 2016, 6, 32732.	3.3	42
47	Momentum Dependence of the Nematic Order Parameter in Iron-Based Superconductors. Physical Review Letters, 2019, 123, 066402.	7.8	41
48	Dynamic competition between spin-density wave order and superconductivity in underdoped Ba _{1-x} K _x Fe ₂ As ₂ . Nature Communications, 2014, 5, 3711.	12.8	38
49	Spectroscopic fingerprint of charge order melting driven by quantum fluctuations in a cuprate. Nature Physics, 2021, 17, 53-57.	16.7	36
50	Stripes developed at the strong limit of nematicity in FeSe film. Nature Physics, 2017, 13, 957-961.	16.7	35
51	Electronic structure of the metallic antiferromagnet PdCrO ₂ measured by angle-resolved photoemission spectroscopy. Physical Review B, 2013, 88, .	3.2	32
52	Raman and fluorescence characteristics of resonant inelastic X-ray scattering from doped superconducting cuprates. Scientific Reports, 2016, 6, 19657.	3.3	32
53	Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3449-3453.	7.1	32
54	Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped $\text{Bi}_{1-x}\text{Te}_x$. Physical Review B, 2015, 92, .	3.2	28

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55	Detailed band structure of twinned and detwinned BaFe_2As_2 studied with angle-resolved photoemission spectroscopy. Physical Review B, 2019, 99, .	3.2	26
56	Hidden Itinerant-Spin Phase in Heavily Overdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Revealed by Dilute Fe Doping: A Combined Neutron Scattering and Angle-Resolved Photoemission Study. Physical Review Letters, 2011, 107, 127002.	7.8	27
57		3.2	26
58	Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe3. Matter, 2020, 3, 2055-2065.	10.0	26
59	Effects of out-of-plane disorder on the nodal quasiparticle and superconducting gap in single-layer Bi_2Te_3 . Physical Review B, 2009, 79, .	3.2	25
60	Interface Ferroelectric Transition near the Gap-Opening Temperature in a Single-Unit-Cell FeSe Film Grown on Nb-Doped SrTiO3 Substrate. Physical Review Letters, 2015, 114, 037002.	7.8	23
61	Persistent low-energy phonon broadening near the charge order q vector in the bilayer cuprate Bi_2Te_3 . Physical Review B, 2022, 105, 104403.	3.2	22
62	Superconducting Fluctuations in Overdoped Bi_2Te_3 . Physical Review X, 2021, 11, .	8.9	20
63	Doping dependence of the (Γ , Γ) shadow band in La-based cuprates studied by angle-resolved photoemission spectroscopy. New Journal of Physics, 2011, 13, 013031.	2.9	19
64	Revealing the Coulomb interaction strength in a cuprate superconductor. Physical Review B, 2017, 96, .	3.2	19
65	Fermi Arcs vs. Fermi Pockets in Electron-doped Perovskite Iridates. Scientific Reports, 2015, 5, 8533.	3.3	18
66	Correlation-driven electronic reconstruction in $\text{FeTe}_{1-x}\text{S}_x$. Communications Physics, 2022, 5, .	5.3	17
67	Reaffirming the Gap Using the Autocorrelation Angle-Resolved Photoemission Spectroscopy of Bi_2Te_3 . Physical Review Letters, 2011, 106, 167003.	7.8	16
68	Bandwidth and Electron Correlation-Tuned Superconductivity in $\text{Rb}_{0.8}\text{Fe}_2(\text{Se}_{1-z}\text{S}_z)_2$. Physical Review Letters, 2015, 115, 256403.	7.8	16
69	Metallic surface states in a correlated d-electron topological Kondo insulator candidate FeSb2. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15409-15413.	7.1	15
70	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815.	10.0	15
71	Crossover from coherent quasiparticles to incoherent hole carriers in underdoped cuprates. Physical Review B, 2009, 79, .	3.2	14
72	Observation of Orbital Order in the Half-Filled Gd_4f_2 Compound. Physical Review Letters, 2016, 117, 216404.	7.8	14

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73	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.	7.8	14
74	Spectroscopic Evidence for Electron-Boson Coupling in Electron-Doped $\text{Sr}_2\text{CuO}_2\text{Cl}_2$. Physical Review Letters, 2019, 123, 216402.	7.8	13
75	Electronic states dressed by an out-of-plane supermodulation in the quasi-two-dimensional kagome superconductor CsV_3Sb_5 . Physical Review B, 2022, 105, .	3.2	13
76	Temperature-dependent photoemission spectra, spectral weight transfer, and chemical potential shift in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$: Implications for charge-density modulation. Physical Review B, 2007, 76, .	3.2	12
77	Superconductivity dominated by the coexisting pseudogap in the antinodal region of Bi_2Te_3 . Physical Review Letters, 2018, 121, 127001.	3.2	12
78	Strongly three-dimensional electronic structure and Fermi surfaces of $\text{SrFe}_2(\text{As}_{0.65}\text{P}_{0.35})_2$: Comparison with $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. Physical Review B, 2014, 89, .	3.2	12
79	Electron-phonon coupling in a system with broken symmetry: Surface of Be_3C_2 . Physical Review B, 2015, 92, .	3.2	10
80	Experimental elucidation of the origin of the $\tilde{\epsilon}$ -double spin resonances $\tilde{\epsilon}^{\text{TM}}$ in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2016, 93, .	3.2	12
81	Large thermopower from dressed quasiparticles in the layered cobaltates and rhodates. Physical Review B, 2017, 96, .	3.2	11
82	Superconductivity-Insensitive Order at $q = \frac{1}{4}$ in Electron-Doped Cuprates. Physical Review X, 2017, 7, .	3.2	11
83	Spectral Evidence for Emergent Order in BaFe_2As_2 . Physical Review Letters, 2018, 121, 127001.	7.8	11
84	Dichotomy of the photo-induced 2-dimensional electron gas on SrTiO_3 surface terminations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16687-16691.	7.1	11
85	Ferromagnetic transition in MnP studied by high-resolution photoemission spectroscopy. Physical Review B, 2004, 69, .	3.2	10
86	Dependence of electron correlation strength in F_e . Physical Review B, 2004, 69, .	3.2	10
87	Epitaxial growth of $\text{TiSe}_2/\text{TiO}_2$ heterostructure. 2D Materials, 2019, 6, 011008.	4.4	10
88	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb_4 . Npj Quantum Materials, 2022, 7, .	5.2	10
89	Angle-resolved photoemission study of the tri-layer high- T_c superconductor Bi_2Te_3 . Physical Review B, 2010, 82, 040501.	1.2	9
90	Phase transition and electronic structure evolution of MoTe_2 induced by W substitution. Physical Review B, 2018, 98, .	3.2	9

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91	Electronic structure of the Si-containing topological Dirac semimetal CaAl_2Si_2 . Physical Review B, 2020, 102, .	3.2	9
92	High-energy anomaly in $\text{Nd}_2\text{xCe}_x\text{CuO}_4$ investigated by angle-resolved photoemission spectroscopy and quantum Monte Carlo simulations. Physical Review B, 2011, 83, .	3.2	8
93	Emergence of quasiparticles in a doped Mott insulator. Communications Physics, 2020, 3, .	5.3	8
94	Unconventional spectral signature of Tc in a pure d-wave superconductor. Nature, 2022, 601, 562-567.	27.8	8
95	Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates. Advanced Science, 2021, 8, 2003454.	11.2	6
96	Quasiparticle coherence in the nematic state of FeSe. Physical Review B, 2021, 104, .	3.2	6
97	Electronic nature of the pseudogap in electron-doped Sr_2IrO_4 . Npj Quantum Materials, 2022, 7, .	5.2	6
98	Effect of electron-phonon coupling in the ARPES spectra of the tri-layer cuprate $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. Journal of Physics: Conference Series, 2013, 428, 012039.	0.4	5
99	Anisotropic quasiparticle coherence in nematic BaFe_2As_2 studied with strain-dependent ARPES. Physical Review B, 2021, 103, .	3.2	4
100	Quantum-well states in fractured crystals of the heavy-fermion material CeCoIn_5 . Physical Review B, 2020, 102, .	3.2	4
101	Three interaction energy scales in the single-layer high- T_c cuprate $\text{HgBa}_2\text{CuO}_4+\delta$. Physical Review B, 2020, 102, .	3.2	4
102	Strain-controlled evolution of electronic structure indicating topological phase transition in the quasi-one-dimensional superconductor TaSe_3 . Physical Review B, 2022, 105, .	3.2	4
103	Relationship between the superconducting gap and the pseudogap: Temperature-dependent photoemission study of $\text{La}_2\text{xSr}_x\text{CuO}_4$ and La_2CuO_4 . Physica C: Superconductivity and Its Applications, 2007, 460-462, 884-885.	1.2	3
104	Anisotropy of gap and kink energies in the trilayer high- T_c cuprate superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. Journal of Physics: Conference Series, 2008, 108, 012015.	0.4	3
105	Electronic structure of the quadrupolar ordered heavy-fermion compound YbRu_2Ge_2 measured by angle-resolved photoemission. Physical Review B, 2019, 99, .	3.2	3
106	Photoemission study of excess oxygen-doped La_2CuO_4 . Physica C: Superconductivity and Its Applications, 2006, 445-448, 80-83.	1.2	2
107	Applicability of convex hull in multiple detector response space for neutron dose measurements. Radiation Protection Dosimetry, 2009, 136, 1-10.	0.8	2
108	Unusual nodal behaviors of the superconducting gap in the iron-based superconductor BaMo_6S_8 . Physical Review B, 2020, 102, .	3.2	2

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109	Nematic Fluctuations in the Non-Superconducting Iron Pnictide $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{CrAs}_2$. <i>Frontiers in Physics</i> , 0, 10, .	2.1	2
110	Temperature dependence of the chemical potential in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Journal of Physics: Conference Series</i> , 2008, 108, 012018.	0.4	1
111	White Dwarf Models of Supernovae and Cataclysmic Variables. <i>International Astronomical Union Colloquium</i> , 1987, 93, 395-411.	0.1	0
112	Doping Evolution of the Electronic Structure in the Single-layer Cuprate $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_6$. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
113	Band-dependent superconducting gap in $\text{SrFe}_2(\text{As}_{0.65}\text{P}_{0.35})_2$ studied by angle-resolved photoemission spectroscopy. <i>Scientific Reports</i> , 2019, 9, 16418.	3.3	0