

Hiroaki Matsui

List of Publications by Year in descending order

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papers

1,537
citations

394286

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39
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61
all docs

61
docs citations

61
times ranked

1488
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of multiple superconducting gaps in MgB ₂ . Nature, 2003, 423, 65-67.	13.7	227
2	Direct Observation of a Nonmonotonic dx ₂ -y ₂ -Wave Superconducting Gap in the Electron-Doped High-T _c Superconductor Pr _{0.89} LaCe _{0.11} CuO ₄ . Physical Review Letters, 2005, 95, 017003.	2.9	157
3	ARPES on Na _{0.6} CoO ₂ : Fermi Surface and Unusual Band Dispersion. Physical Review Letters, 2004, 92, 246403.	2.9	143
4	Angle-Resolved Photoemission Spectroscopy of the Antiferromagnetic Superconductor Nd _{1.87} Ce _{0.13} CuO ₄ : Anisotropic Spin-Correlation Gap, Pseudogap, and the Induced Quasiparticle Mass Enhancement. Physical Review Letters, 2005, 94, 047005.	2.9	122
5	Observation of Band Renormalization Effects in Hole-Doped High-T _c Superconductors. Physical Review Letters, 2003, 91, 157003.	2.9	100
6	Anomalous Momentum Dependence of the Superconducting Coherence Peak and Its Relation to the Pseudogap of $\text{La}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$. Physical Review Letters, 2007, 99, 017003. net-superconductor phase boundary of $\text{La}_{1-x}\text{Ce}_x\text{CuO}_4$	2.9	88
7	Angle-Resolved Photoemission Spectroscopy of the Superconductor $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Physical Review Letters, 2007, 99, 017003. net-superconductor phase boundary of $\text{La}_{1-x}\text{Ce}_x\text{CuO}_4$	1.1	85
8	Low Energy Excitation and Scaling in Bi ₂ Sr ₂ Ca _{n-1} Cu _n O _{2n+4} (n=1-3): Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2002, 89, 067005.	2.9	57
9	Impurity effects on electron-phonon mode coupling in high-temperature superconductors. Nature Physics, 2006, 2, 27-31.	6.5	52
10	Electronic structure of sodium tungsten bronzes Na _x WO ₃ by high-resolution angle-resolved photoemission spectroscopy. Physical Review B, 2007, 75, .	1.1	48
11	Bulk and surface low-energy excitations in YBa ₂ Cu ₃ O _{7-δ} studied by high-resolution angle-resolved photoemission spectroscopy. Physical Review B, 2007, 75, .	1.1	44
12	4-fold enhancement in the critical current density of YBa ₂ Cu ₃ O ₇ films by practical ion irradiation. Applied Physics Letters, 2012, 101, .	1.5	39
13	Angle-Resolved Photoemission Spectroscopy of the Insulating Na _x WO ₃ : Anderson Localization, Polaron Formation, and Remnant Fermi Surface. Physical Review Letters, 2006, 96, 147603.	2.9	37
14	Strong flux pinning due to dislocations associated with stacking faults in YBa ₂ Cu ₃ O _{7-δ} thin films prepared by fluorine-free metal organic deposition. Superconductor Science and Technology, 2010, 23, 105004.	1.8	36
15	Systematics of electronic structure and interactions in Bi ₂ Sr ₂ Ca _{n-1} Cu _n O _{2n+4} (n=1-3) by angle-resolved photoemission spectroscopy. Physical Review B, 2003, 67, .	1.1	27
16	Shadow bands in single-layered Bi ₂ Sr ₂ CuO _{6+δ} studied by angle-resolved photoemission spectroscopy. Physical Review B, 2006, 74, .	1.1	27
17	Angle-resolved photoemission spectroscopy of the metallic sodium tungsten bronzes Na _x WO ₃ . Physical Review B, 2005, 72, .	1.1	20
18	Temperature dependence of magnetic-field angle dependent critical current density and the flux pinning in YBa ₂ Cu ₃ O ₇ thin films. Physica C: Superconductivity and Its Applications, 2012, 478, 19-28.	0.6	20

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19	Enhancement of critical current density in YBa ₂ Cu ₃ O ₇ films using a semiconductor ion implanter. Journal of Applied Physics, 2015, 117, .	1.1	20
20	Three-Dimensional Fermi-Surface Nesting in 1T-VSe ₂ Studied by Angle-Resolved Photoemission Spectroscopy. Journal of the Physical Society of Japan, 2004, 73, 3331-3334.	0.7	17
21	Thickness Dependence of the Critical-Current Density and its Relation to Near-Interface Crystal Imperfections in Fluorine-Free-MOD YBCO Films. IEEE Transactions on Applied Superconductivity, 2011, 21, 2933-2936.	1.1	17
22	Dimpling in critical current density vs. magnetic field angle in YBa ₂ Cu ₃ O ₇ films irradiated with 3-MeV gold ions. Journal of Applied Physics, 2013, 114, 233911.	1.1	13
23	High-resolution ARPES study of quasi-particles in high-T _c superconductors. New Journal of Physics, 2005, 7, 105-105.	1.2	12
24	Increase of achievable film thickness by UV-lamp irradiation in a fluorine-free metal-organic deposition process of YBa ₂ Cu ₃ O ₇ . Thin Solid Films, 2011, 519, 8063-8065.	0.8	11
25	Reduced crystallization time of YBCO in a fluorine-free MOD process using uv-lamp irradiation. Physica C: Superconductivity and Its Applications, 2011, 471, 960-962.	0.6	11
26	Enhanced flux pinning in MOD YBa ₂ Cu ₃ O ₇ films by ion milling through anodic alumina templates. Superconductor Science and Technology, 2012, 25, 065005.	1.8	9
27	Ultrahigh-resolution angle-resolved photoemission study of LaX (X=S, Se, Te). Journal of Magnetism and Magnetic Materials, 2004, 272-276, E121-E122.	1.0	7
28	500 V/200 A fault current limiter modules made of large-area MOD-YBa ₂ Cu ₃ O ₇ thin films with high-resistivity Au-Ag alloy shunt layers. Superconductor Science and Technology, 2009, 22, 125007.	1.8	7
29	Preparation of Y123 Thick Films by Fluorine-Free MOD Using a Novel Solution. IEEE Transactions on Applied Superconductivity, 2011, 21, 2775-2778.	1.1	7
30	Influence of middle-energy ion-irradiation on the flux pinning properties of YBCO films: Comparison between different synthesis methods. Journal of Physics: Conference Series, 2014, 507, 022019.	0.3	7
31	Enhancement of self-field critical current density by several-tens-MeV ion irradiation in YBa ₂ Cu ₃ O ₇ films prepared by fluorine-free metal-organic deposition. Japanese Journal of Applied Physics, 2022, 61, 043001.	0.8	7
32	Enhanced J _c of MOD-YBCO Films by Modifying Surface States of CeO ₂ Buffer Layers on Sapphire Substrates. Physics Procedia, 2013, 45, 177-180.	1.2	6
33	Origin of the dimpled critical-current-versus-magnetic-field-angle relation in YBa ₂ Cu ₃ O ₇ films studied using sub-MeV ion irradiation. Superconductor Science and Technology, 2016, 29, 065002.	1.8	6
34	X-ray angle-resolved photoemission spectroscopy of CaB ₆ . Physical Review B, 2004, 70, .	1.1	5
35	Effect of Introduction of Artificial Pinning Center in YBa ₂ Cu ₃ O _y Thin Films to Reduce Surface Resistance. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	5
36	Origin of simultaneous enhancement of work function and carrier concentration in In ₂ O ₃ films by excimer-laser irradiation. Applied Physics Letters, 2021, 118, .	1.5	5

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37	Universality of Low-Energy Mass Renormalization in the Superconducting State of Hole-Doped High-Tc Superconductors. Journal of the Physical Society of Japan, 2007, 76, 103707.	0.7	4
38	Ultrahigh-Resolution Photoemission Study of h-ZrRuP. Journal of the Physical Society of Japan, 2005, 74, 1401-1403.	0.7	3
39	ARPES study of quasiparticle state in electron-doped cuprate Nd _{2-x} Ce _x CuO ₄ . Journal of Physics and Chemistry of Solids, 2006, 67, 249-253.	1.9	3
40	Single-particle excitation gap in La _{2-x} Sr _x CuO ₄ studied by high-resolution angle-resolved photoemission. Physica C: Superconductivity and Its Applications, 2007, 463-465, 44-47.	0.6	3
41	Metal-insulator transition in sodium tungsten bronzes, studied by angle-resolved photoemission spectroscopy. Journal of Magnetism and Magnetic Materials, 2007, 310, e231-e233.	1.0	3
42	Measurement of J _c and n-value for (Y _{1-x} Gd _x)Ba ₂ Cu ₃ O _y films prepared by MOD. Physica C: Superconductivity and Its Applications, 2010, 470, 1449-1451.	0.6	3
43	High-resolution angle-resolved photoemission study of impurity-substituted Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . Physica B: Condensed Matter, 2004, 351, 280-282.	1.3	2
44	Direct observation of superconducting gaps in MgB ₂ by angle-resolved photoemission spectroscopy. Physica C: Superconductivity and Its Applications, 2004, 408-410, 102-103.	0.6	2
45	Line-beam scan irradiation for preparation of YBCO films with high-J _c by excimer-laser-assisted MOD (ELAMOD). Physica C: Superconductivity and Its Applications, 2009, 469, 1541-1544.	0.6	2
46	Environment-resistive coating for the thin-film-based superconducting fault-current limiter Ag/Au-Ag/YBa ₂ Cu ₃ O ₇ /CeO ₂ /Al ₂ O ₃ . Physica C: Superconductivity and Its Applications, 2010, 470, 221-224.	0.6	2
47	Preparation of superconducting films by metal organic deposition. Synthesiology, 2014, 7, 247-257.	0.2	2
48	Low Energy Excitation in Bi ₂ Sr ₂ Ca _{n-1} Cu _n O _{2n+4} (n = 1-3) Studied by High-Resolution Arpes. International Journal of Modern Physics B, 2003, 17, 3554-3558.	1.0	1
49	Spectral evidence for Bogoliubov quasiparticle in triple-layered high-Tc superconductor Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ . Physica C: Superconductivity and Its Applications, 2004, 408-410, 814-815.	0.6	1
50	Magnetic interaction in hole-doped high-Tc superconductors observed by angle-resolved photoemission spectroscopy. Physica C: Superconductivity and Its Applications, 2004, 412-414, 51-58.	0.6	1
51	Electronic structure of impurity-substituted Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} studied by angle-resolved photoemission spectroscopy. Journal of Physics and Chemistry of Solids, 2006, 67, 271-273.	1.9	1
52	Enhancement of in-field critical current density by irradiation of MeV-energy ions in YBCO films prepared by fluorine-free metal-organic deposition. Physics Procedia, 2012, 27, 276-279.	1.2	1
53	Large-area YBCO films with low-R _s prepared by excimer-laser-assisted MOD (ELAMOD) on sapphire substrates. Physica C: Superconductivity and Its Applications, 2013, 484, 183-185.	0.6	1
54	Preparation of superconducting films by metal organic deposition. Synthesiology, 2015, 7, 239-250.	0.2	1

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55	High-resolution photoemission study of $\text{FeSr}_2\text{YCu}_2\text{O}_{7+\delta}$. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 2329-2332.	1.9	0
56	Direct evidence for superconducting quasiparticle in triple-layered high- T_c superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 305-306.	0.6	0
57	Fermi surface, superconducting gap, and many-body effects in $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4}$ ($n=1\sim 3$). <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 812-813.	0.6	0
58	Many-body interactions in Bi-based high- T_c cuprates studied by angle-resolved photoemission spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 628-631.	1.9	0
59	Photoemission study of the superconducting-gap symmetry in electron-doped high- T_c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 862-863.	0.6	0
60	Magnetic isotope effect in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ studied by high-resolution angle-resolved photoemission spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 934-936.	0.6	0
61	Many-body interactions in hole-doped high- T_c cuprates studied by high-resolution ARPES. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2949-2955.	1.9	0