

Masaharu Matsunami

List of Publications by Year in descending order

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papers

2,190
citations

201674

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times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	Nodeless superconducting gap in $AxFe_2Se_2$ ($A=K,Cs$) revealed by angle-resolved photoemission spectroscopy. <i>Nature Materials</i> , 2011, 10, 273-277.	27.5	407
2	Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer. <i>Nano Letters</i> , 2017, 17, 3493-3500.	9.1	129
3	Atomic and Electronic Structure of Ultrathin $Bi(111)$ Films Grown on $TjETQq1$ 10.784314 $rgBT/Overlock$ $10Tf50652Td$ (stretchy="false") $\frac{1}{\mu_0} \int \mathbf{J} \cdot d\mathbf{l}$	7.8	122
4	Discovery of colossal Seebeck effect in metallic Cu_2Se . <i>Nature Communications</i> , 2019, 10, 72.	12.8	122
5	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor $YbAlB_4$: A Hard X-Ray Photoemission Study. <i>Physical Review Letters</i> , 2010, 104, 247201.	7.8	104
6	Evidence for Suppressed Screening on the Surface of High Temperature $La_2-xSrxCuO_4$ and $Nd_2-xCexCuO_4$ Superconductors. <i>Physical Review Letters</i> , 2005, 95, 177002.	7.8	100
7	Revisiting the Valence-Band and Core-Level Photoemission Spectra of NiO. <i>Physical Review Letters</i> , 2008, 100, 206401.	7.8	97
8	Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN. <i>Physical Review Letters</i> , 2010, 104, 236404.	7.8	64
9	Recoil Effect of Photoelectrons in the Fermi Edge of Simple Metals. <i>Physical Review Letters</i> , 2008, 101, 137601.	7.8	57
10	Thermoelectric properties of supersaturated Re solid solution of higher manganese silicides. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 020301.	1.5	55
11	Femtosecond core-level photoemission spectroscopy on TaS_2	3.2	53
12	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. <i>New Journal of Physics</i> , 2014, 16, 123045.	2.9	51
13	Electronic structure characterization of La_2NiMnO_6 epitaxial thin films using synchrotron-radiation photoelectron spectroscopy and optical spectroscopy. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	43
14	Role of Quantum and Surface-State Effects in the Bulk Fermi-Level Position of Ultrathin Bi Films. <i>Physical Review Letters</i> , 2015, 115, 106803.	7.8	41
15	Spectroscopic Evidence for Competing Reconstructions in Polar Multilayers $LaAlO_3/SrTiO_3$. <i>Physical Review Letters</i> , 2009, 102, 236401.	7.8	40
16	Infrared microspectroscopy station at BL43IR of SPring-8. <i>Infrared Physics and Technology</i> , 2004, 45, 369-373.	2.9	38
17	Single-Crystal Pentacene Valence-Band Dispersion and Its Temperature Dependence. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1259-1264.	4.6	37
18	Observation of Energy Gap in $FeGa_3$. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 024705.	1.6	34

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19	Optical conductivity of Yb _{1-x} Lu _x B ₁₂ : Energy gap and mid-infrared peak in diluted Kondo semiconductors. <i>Physical Review B</i> , 2000, 62, R13265-R13269.	3.2	33
20	Gap Formation in the Filled Skutterudite CeOs ₄ Sb ₁₂ . <i>Journal of the Physical Society of Japan</i> , 2003, 72, 2722-2725.	1.6	33
21	Investigation of Thermoelectric Properties of Ag ₂ S _x Se _{1-x} (x = 0.0, 0.2 and 0.4). <i>Journal of Electronic Materials</i> , 2020, 49, 2846-2854.	2.2	31
22	Kondo resonance in PrTi ₂ Al ₂₀ . <i>Physical Review B</i> , 2011, 84, .	3.2	30
23	Surface Tomonaga-Luttinger Liquid State on Anderson model calculations. <i>Physical Review B</i> , 2011, 84, .	7.8	30
24	Temperature Dependence of Magnetically Active Charge Excitations in Magnetite across the Verwey Transition. <i>Physical Review Letters</i> , 2015, 115, 256405.	7.8	30
25	Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-insulating Phases of Ti ₄ O ₇ . <i>Physical Review Letters</i> , 2010, 104, 206401.	7.8	29
26	Quantum valence criticality in a correlated metal. <i>Science Advances</i> , 2018, 4, eaao3547.	10.3	28
27	Pressure Tuning of an Ionic Insulator into a Heavy Electron Metal: An Infrared Study of YbS. <i>Physical Review Letters</i> , 2009, 103, 237202.	7.8	27
28	Enhanced Thermoelectric Properties of W- and Fe-Substituted MnSi ₃ . <i>Journal of Electronic Materials</i> , 2016, 45, 5279-5284.	2.2	26
29	High-Performance Solid-State Thermal Diode Consisting of Ag ₂ (S,Se,Te). <i>Journal of Electronic Materials</i> , 2020, 49, 2895-2901.	2.2	26
30	Combining photoemission and optical spectroscopies for reliable valence determination in YbS and Yb metal. <i>Physical Review B</i> , 2008, 78, .	3.2	24
31	Electronic structure of an antiferromagnetic metal: CaCrO ₃ . <i>Physical Review B</i> , 2011, 83, .	3.2	24
32	Fermi-Level Tuning of Topological Insulator Thin Films. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 110112.	1.5	19
33	Far-Infrared Spectroscopy of Electronic States of Cu _{1-x} Fe _x Se ₄ at High Pressure. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1099-1102.	1.6	15
34	Synergetic Enhancement of the Power Factor and Suppression of Lattice Thermal Conductivity via Electronic Structure Modification and Nanostructuring on a Ni- and B-Codoped p-Type SiGe Alloy for Thermoelectric Application. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5621-5631.	4.3	15
35	Strongly hybridized electronic structure of YbAl ₂ : An angle-resolved photoemission study. <i>Physical Review B</i> , 2013, 87, .	3.2	14
36	Photoemission Evidence for Valence Fluctuations and Kondo Resonance in YbAl ₂ . <i>Journal of the Physical Society of Japan</i> , 2012, 81, 073702.	1.6	12

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37	Optical Conductivity of CeNiSn, CeRhSb, and CeRhAs. Journal of the Physical Society of Japan, 2002, 71, 291-293.	1.6	11
38	Electronic structure of Mott-insulator CaCu ₃ Ti ₄ O ₁₂ : Photoemission and inverse photoemission study. Solid State Communications, 2015, 217, 17-20.	1.9	11
39	Long-Term Stability of the Colossal Seebeck Effect in Metallic Cu ₂ Se. Journal of Electronic Materials, 2020, 49, 2855-2861.	2.2	11
40	Dynamical variation of carrier concentration and colossal Seebeck effect in Cu ₂ S low-temperature phase. Journal of Alloys and Compounds, 2020, 826, 154155.	5.5	11
41	Development of a single-shot CCD-based data acquisition system for time-resolved X-ray photoelectron spectroscopy at an X-ray free-electron laser facility. Journal of Synchrotron Radiation, 2014, 21, 183-192.	2.4	11
42	Au and B co-doped p-type Si-Ge nanocomposites possessing $ZT = 1.63$ synthesized by ball milling and low-temperature sintering. Japanese Journal of Applied Physics, 2019, 58, 125501.	1.5	10
43	Enhancement of the Thermoelectric Performance of Si-Ge Nanocomposites Containing a Small Amount of Au and Optimization of Boron Doping. Journal of Electronic Materials, 2020, 49, 2813-2824.	2.2	10
44	Mixed-phase effect of a high Seebeck coefficient and low electrical resistivity in Ag ₂ S. Journal Physics D: Applied Physics, 2021, 54, 115503.	2.8	10
45	Direct observation of pseudo-gap electronic structure in the Heusler-type Fe ₂ VAl thin film. Journal of Electron Spectroscopy and Related Phenomena, 2019, 232, 1-4.	1.7	9
46	Angle-resolved photoemission spectroscopy on mixed-valent Sm _{1-x} Y _x S. Journal of the Korean Physical Society, 2013, 62, 2028-2031.	0.7	7
47	Electron Dynamics Probed by Time-Resolved Hard X-ray Photoelectron Spectroscopy. Transactions of the Materials Research Society of Japan, 2014, 39, 469-473.	0.2	7
48	Direct observation of heterogeneous valence state in Yb-based quasicrystalline approximants. Physical Review B, 2017, 96, .	3.2	6
49	Soft X-ray photoelectron spectroscopy study of Fe ₂ P(0001). Surface Science, 2014, 624, 21-24.	1.9	5
50	Electronic Structures of the Kondo Semiconductor YbB ₁₂ : Temperature and Non-Magnetic Dilution Effects. Journal of the Physical Society of Japan, 2002, 71, 303-305.	1.6	4
51	Carrier Concentration Dependence of Superconducting Gap of Bi ₂ (Sr,La) ₂ CuO ₆ + δ . Journal of the Physical Society of Japan, 2016, 85, 104710.	1.6	4
52	Carrier concentration dependence of thermoelectric properties of Fe(V _{1-x}) ₂ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T 2017, 56, 111202.	1.5	4
53	Simultaneous enhancements of thermopower and electrical conductivity in quasi-one-dimensional La-YbAlB_4 single crystal. Applied Physics Letters, 2021, 119, 223905.	3.3	4
54	Electronic Structure of Ni ₂ P(0001) Studied by Resonant Photoelectron Spectroscopy. E-Journal of Surface Science and Nanotechnology, 2015, 13, 93-98.	0.4	3

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55	Low power density multihole cathode very-high-frequency plasma for mixed phase Si:H thin films. Applied Physics Letters, 2008, 93, 191502.	3.3	2
56	Three-dimensional angle-resolved photoemission spectra of EuO thin film. Journal of Electron Spectroscopy and Related Phenomena, 2013, 191, 7-10.	1.7	2
57	Superconducting gap of heavily underdoped copper oxide superconductor (Bi,Pb) ₂ Sr ₂ (Ca,Y)Cu ₂ O _{8+δ} . Journal of Electron Spectroscopy and Related Phenomena, 2017, 220, 54-57.	1.7	2
58	Thermoelectric properties of Yb ₅ Si ₃ . Japanese Journal of Applied Physics, 2020, 59, 010902.	1.5	2
59	Optical study on metal-insulator change in PrFe ₄ P ₁₂ under high pressure. Journal of Magnetism and Magnetic Materials, 2007, 310, 221-222.	2.3	1
60	Electronic state of PrFe ₄ P ₁₂ under high pressure probed by infrared spectroscopy. Physica B: Condensed Matter, 2008, 403, 948-949.	2.7	1
61	Electronic structure of LaTe and CeTe. Journal of Electron Spectroscopy and Related Phenomena, 2016, 208, 116-120.	1.7	1
62	Hard x-ray photoemission spectroscopy of rhenium substituted higher manganese silicides. Journal of Applied Physics, 2020, 127, .	2.5	1
63	Hard X-ray and soft X-ray photoemission study of vanadium oxides. Journal of Magnetism and Magnetic Materials, 2007, 310, e289-e291.	2.3	0
64	Universal scaling in the optical conductivity of heavy fermion compounds. Physica B: Condensed Matter, 2008, 403, 761-763.	2.7	0
65	High Pressure IR Studies of Correlated Electron Materials at SPring-8. , 2010, , .		0