

Masamichi Nakajima

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74
papers

1,711
citations

21
h-index

40
g-index

79
ext. papers

1,922
ext. citations

4.2
avg, IF

3.94
L-index

#	Paper	IF	Citations
74	Unprecedented anisotropic metallic state in undoped iron arsenide BaFe ₂ As ₂ revealed by optical spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12238-42	11.5	158
73	Structural Quantum Criticality and Superconductivity in Iron-Based Superconductor Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 024604	1.5	155
72	Evolution of the optical spectrum with doping in Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2010 , 81,	3.3	116
71	Single Crystal Growth and Characterization of the Iron-Based Superconductor KFe ₂ As ₂ Synthesized by KAs Flux Method. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 124713	1.5	104
70	Anisotropy of the in-plane resistivity of underdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ superconductors induced by impurity scattering in the antiferromagnetic orthorhombic phase. <i>Physical Review Letters</i> , 2013 , 110, 207001	7.4	86
69	Complete Fermi surface in BaFe ₂ As ₂ observed via Shubnikov-de Haas oscillation measurements on detwinned single crystals. <i>Physical Review Letters</i> , 2011 , 107, 176402	7.4	74
68	Pseudogap formation above the superconducting dome in iron pnictides. <i>Physical Review B</i> , 2014 , 89,	3.3	63
67	Dependence of carrier doping on the impurity potential in transition-metal-substituted FeAs-based superconductors. <i>Physical Review Letters</i> , 2013 , 110, 107007	7.4	63
66	Manifestations of multiple-carrier charge transport in the magnetostructurally ordered phase of BaFe ₂ As ₂ . <i>Physical Review B</i> , 2011 , 84,	3.3	63
65	Effect of Co doping on the in-plane anisotropy in the optical spectrum of underdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review Letters</i> , 2012 , 109, 217003	7.4	60
64	Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. <i>Physical Review B</i> , 2016 , 94,	3.3	54
63	Abrupt change in the energy gap of superconducting Ba _{1-x} K _x Fe ₂ As ₂ single crystals with hole doping. <i>Physical Review B</i> , 2012 , 86,	3.3	51
62	Growth of BaFe ₂ (As _{1-x} P _x) ₂ Single Crystals (0001) by Ba ₂ As ₃ /Ba ₂ P ₃ -Flux Method. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 104710	1.5	48
61	Doping-dependent critical current properties in K, Co, and P-doped BaFe ₂ As ₂ single crystals. <i>Physical Review B</i> , 2017 , 95,	3.3	39
60	Effect of doping on the magnetostructural ordered phase of iron arsenides: a comparative study of the resistivity anisotropy in doped BaFe ₂ As ₂ with doping into three different sites. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3158-63	16.4	39
59	Normal-state charge dynamics in doped BaFe ₂ As ₂ : roles of doping and necessary ingredients for superconductivity. <i>Scientific Reports</i> , 2014 , 4, 5873	4.9	38
58	Possible hydrogen doping and enhancement of T _c (=35 K) in a LaFeAsO-based superconductor. <i>Applied Physics Letters</i> , 2010 , 96, 072514	3.4	34

57	Three-dimensional nature of normal and superconducting states in BaNi ₂ P ₂ single crystals with the ThCr ₂ Si ₂ -type structure. <i>Physical Review B</i> , 2009 , 79,	3.3	29
56	Effects of uniaxial pressure and annealing on the resistivity of Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 418-419	3.9	23
55	Distinct doping dependence of critical temperature and critical current density in Ba _{1-x} K _x Fe ₂ As ₂ superconductor. <i>Scientific Reports</i> , 2016 , 6, 26671	4.9	23
54	Anisotropy of the superconducting gap in the iron-based superconductor BaFe ₂ (As _{1-x} P _x) ₂ . <i>Scientific Reports</i> , 2014 , 4, 7292	4.9	22
53	Strong Electronic Correlations in Iron Pnictides: Comparison of Optical Spectra for BaFe ₂ As ₂ -Related Compounds. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 104703	1.5	21
52	Universality of the dispersive spin-resonance mode in superconducting BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2013 , 111, 167002	7.4	21
51	Strong carrier-scattering in iron-pnictide superconductors LnFeAsO _{1-y} (Ln=La and Nd) obtained from charge transport experiments. <i>Physical Review B</i> , 2010 , 81,	3.3	21
50	Crossover from bad to good metal in BaFe ₂ (As _{1-x} P _x) ₂ induced by isovalent P substitution. <i>Physical Review B</i> , 2013 , 88,	3.3	19
49	Pairing symmetry of the multiorbital pnictide superconductor BaFe _{1.84} Co _{0.16} As ₂ from Raman scattering. <i>Physical Review B</i> , 2010 , 82,	3.3	19
48	Strange Inter-Layer Properties of Ba(Fe _{1-x} Co _x) ₂ As ₂ Appearing in Ultrasonic Measurements. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 114604	1.5	18
47	Interaction of vortices in anisotropic superconductors with isotropic defects. <i>Superconductor Science and Technology</i> , 2015 , 28, 102001	3.1	15
46	Single-Crystal Growth of Ba _{1-x} K _x Fe ₂ As ₂ by KAs Self-Flux Method. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 034718	1.5	15
45	Effects of introducing isotropic artificial defects on the superconducting properties of differently doped Ba-122 based single crystals. <i>Scientific Reports</i> , 2016 , 6, 27783	4.9	15
44	Enhanced superconductivity in surface-electron-doped iron pnictide Ba(FeCo)As. <i>Nature Materials</i> , 2016 , 15, 1233-1236	2.7	12
43	Electronic structure of BaNi ₂ P ₂ observed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	11
42	Antiferroic electronic structure in the nonmagnetic superconducting state of the iron-based superconductors. <i>Science Advances</i> , 2017 , 3, e1700466	14.3	10
41	Effect of magnetism on lattice dynamics in SrFe ₂ As ₂ using high-resolution inelastic x-ray scattering. <i>Physical Review B</i> , 2016 , 93,	3.3	10
40	Gradual Fermi-surface modification in orbitally ordered state of FeSe revealed by optical spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	10

39	Three superconducting phases with different categories of pairing in hole- and electron-doped LaFeAs _{1-x} P _x O. <i>Physical Review B</i> , 2017 , 95,	3-3	9
38	Vortex lattice structure in BaFe ₂ (As _{0.67} P _{0.33}) ₂ via small-angle neutron scattering. <i>Physical Review B</i> , 2014 , 90,	3-3	9
37	Penetration depth and flux-flow resistivity measurements of BaFe ₂ (As _{0.55} P _{0.45}) ₂ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 504, 24-27	1-3	9
36	Effects of Zn substitution on the electronic structure of BaFe ₂ As ₂ revealed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3-3	8
35	Angle-resolved photoemission study on the superconducting iron-pnictides of BaFe ₂ (As,P) ₂ with low energy photons. <i>Solid State Communications</i> , 2012 , 152, 695-700	1.6	7
34	Optical Study of Electron-Doped Cuprate Pr _{1.3-x} La _{0.7} Ce _x CuO _{4+δ} in Under-Doped Regime: Revisit the Phase Diagram. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 043705	1.5	6
33	Orbital-anisotropic electronic structure in the nonmagnetic state of BaFe(AsP) ₂ superconductors. <i>Scientific Reports</i> , 2018 , 8, 2169	4-9	6
32	Antiphase Fermi-surface modulations accompanying displacement excitation in a parent compound of iron-based superconductors. <i>Physical Review B</i> , 2018 , 97,	3-3	6
31	In-plane electronic anisotropy in the antiferromagnetic orthorhombic phase of isovalent-substituted Ba(Fe _{1-x} Ru _x) ₂ As ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	6
30	Investigation of Precursor Superconducting State in YBa ₂ Cu ₃ O _{7-δ} through In-Plane Optical Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 023701	1.5	5
29	Lattice dynamics in FeSe via inelastic x-ray scattering and first-principles calculations. <i>Physical Review B</i> , 2020 , 101,	3-3	5
28	Comprehensive study of out-of-plane transport properties in BaFe ₂ As ₂ : Three-dimensional electronic state and effect of chemical substitution. <i>Physical Review B</i> , 2018 , 97,	3-3	5
27	Large elastic anomalies and strong electron-lattice coupling in iron-based superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Solid State Communications</i> , 2012 , 152, 680-687	1.6	5
26	Evidence of a universal relation between electron-mode coupling and T _c in Ba _{1-x} K _x Fe ₂ As ₂ superconductor from laser angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3-3	5
25	A Resistive Transition between the Normal and Superconducting State of BaNi ₂ P ₂ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 136-137	1.5	5
24	Effect of electron correlations on spin excitation bandwidth in Ba _{0.75} K _{0.25} Fe ₂ As ₂ as seen via time-of-flight inelastic neutron scattering. <i>Physical Review B</i> , 2018 , 97,	3-3	5
23	Anisotropic Grüneisen Parameter and Diverse Order Parameter Fluctuations in Iron-Based Superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 074710	1.5	5
22	Superconducting-Gap Anisotropy of Iron Pnictides Investigated via Combinatorial Microwave Measurements. <i>Scientific Reports</i> , 2020 , 10, 7064	4-9	4

21	Selective Raman Scattering Detection of the Dirac Node and the Anti-node of the Spin Density Wave Gap and Magnetic Excitations in BaFe ₂ As ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1179-1183	1.5	4
20	Ultrafast melting of spin density wave order in BaFe ₂ As ₂ observed by time- and angle-resolved photoemission spectroscopy with extreme-ultraviolet higher harmonic generation. <i>Physical Review B</i> , 2017 , 95,	3.3	4
19	Optical response of FeAs-based compounds. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S326-S327	1.3	4
18	Control of band structure of FeSe single crystals via biaxial strain. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
17	Direct observation of in-plane anisotropy of the superconducting critical current density in Ba(Fe _{1-x} Co _x) ₂ As ₂ crystals. <i>Physical Review B</i> , 2018 , 97,	3.3	3
16	Superconducting gap in iron pnictides studied by optical spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 511-513	3.9	3
15	Effect of the sample work function on alkali metal dosing induced electronic structure change. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 249, 147045	1.7	3
14	Superconducting gap and nematic resonance at the quantum critical point observed by Raman scattering in BaFe ₂ (As _{1-x} P _x) ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	2
13	The Nodal SDW Gap and the Superconducting Gap in BaFe _{2-x} Co _x As ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 1185-1189	1.5	2
12	Unusual nodal behaviors of the superconducting gap in the iron-based superconductor Ba(Fe _{0.65} Ru _{0.35}) ₂ As ₂ : Effects of spin-orbit coupling. <i>Physical Review B</i> , 2017 , 95,	3.3	1
11	Doping dependence of the pinning efficiency in K-doped Ba122 single crystals prior to and after fast neutron irradiation. <i>Superconductor Science and Technology</i> , 2019 , 32, 094004	3.1	1
10	Effect of Cr substitution for V in Sr ₂ VFeAsO ₃ . <i>Superconductor Science and Technology</i> , 2019 , 32, 064003	3.1	1
9	Carrier localization due to local magnetic order induced by magnetic impurities in Ba(Fe _{1-x} TM _x) ₂ As ₂ (TM = Mn and Cr) as seen via optical spectra. <i>Physical Review B</i> , 2016 , 94,	3.3	1
8	Quantum oscillations in iron-based superconductors: BaFe ₂ As ₂ vs. KFe ₂ As ₂ . <i>Journal of Physics: Conference Series</i> , 2013 , 449, 012022	0.3	1
7	Transport properties of single crystal BaNi ₂ P ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 905-907	1.3	1
6	Doping effect on the carrier scattering in iron-pnictide superconductors studied by charge transport. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 407-409	3.9	1
5	Hybridization Effect in BaFe ₂ (As _{1-x} P _x) ₂ Observed by Hard X-ray Photoemission Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 053702	1.5	1
4	Experimental investigation of the suppressed superconducting gap and double-resonance mode in Ba _{1-x} K _x Fe ₂ As ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	1

- 3 Discovery of mesoscopic nematicity wave in iron-based superconductors. *Science*, **2021**, 373, 1122-1125 33.3 1
- 2 Elastic Anomalies Associated with superconducting phase transitions in Iron-based Superconductor Ba(Fe_{1-x}Cox)₂As₂. *Journal of Physics: Conference Series*, **2012**, 400, 022037 0.3
- 1 Characteristic charge transport in oxygen-deficiency-controlled LnFeAsO_{1-y} (Ln = La and Nd). *Physica C: Superconductivity and Its Applications*, **2010**, 470, S324-S325 1.3