

Shigeyuki Ishida

List of Publications by Year in descending order

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129
papers

3,080
citations

186209

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132
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	New-Structure-Type Fe-Based Superconductors: $\text{Ca}_{1-x}\text{Fe}_{1+x}\text{As}_2$ ($x = 0$) Tj ETQq1 1 0.784314 rgBT Chemical Society, 2016, 138, 3410-3415.	6.6	228
2	Phase competition in trisected superconducting dome. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18332-18337.	3.3	222
3	Unprecedented anisotropic metallic state in undoped iron arsenide BaFe_2As_2 revealed by optical spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12238-12242.	3.3	173
4	Evolution of the optical spectrum with doping in $\text{Ba}_{1-x}\text{Fe}_x\text{As}_2$. Physical Review B, 2010, 81, .	1.1	125
5	Single Crystal Growth and Characterization of the Iron-Based Superconductor KFe_2As_2 Synthesized by KA5 Flux Method. Journal of the Physical Society of Japan, 2010, 79, 124713.	0.7	117
6	Dispersive charge density wave excitations in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Nature Physics, 2017, 13, 952-956.	6.5	101
7	Anisotropy of the in-Plane Resistivity of Underdoped $\text{Ba}_{1-x}\text{Fe}_x\text{As}_2$. Physical Review Letters, 2011, 107, 176402.	2.9	83
8	Doping-Dependent Nodal Fermi Velocity of the High-Temperature Superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Using High-Resolution Angle-Resol. Physical Review Letters, 2010, 104, 207002.	1.9	92
9	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Nature Materials, 2015, 14, 37-42.	13.3	92
10	Complete Fermi Surface in BaFe_2As_2 via Shubnikov-de Haas Oscillation Measurements on Detwinned Single Crystals. Physical Review Letters, 2011, 107, 176402.	2.9	83
11	Abrupt change in the energy gap of superconducting BaFe_2As_2 . Physical Review B, 2011, 84, .	1.1	72
12	Superconductivity in Fe-Based Compound EuFe_4As_4 (A = Rb and Cs). Journal of the Physical Society of Japan, 2016, 85, 064710.	0.7	68
13	Effect of Co Doping on the in-Plane Anisotropy in the Optical Spectrum of Underdoped $\text{Ba}_{1-x}\text{Fe}_x\text{As}_2$. Physical Review Letters, 2012, 108, 166404.	2.9	48
14	Normal-state charge dynamics in doped BaFe_2As_2 : Roles of doping and necessary ingredients for superconductivity. Scientific Reports, 2014, 4, 5873.	1.6	48
15	Enhancement of the superconducting critical temperature in $\text{Bi}_{1-x}\text{Fe}_x\text{As}_2$. Physical Review B, 2009, 79, .	1.1	45

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19	Effect of Doping on the Magnetostructural Ordered Phase of Iron Arsenides: A Comparative Study of the Resistivity Anisotropy in Doped BaFe_2As_2 with Doping into Three Different Sites. <i>Journal of the American Chemical Society</i> , 2013, 135, 3158-3163.	6.6	43
20	Unique defect structure and advantageous vortex pinning properties in superconducting $\text{CaKFe}_4\text{As}_4$. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	43
21	Large and significantly anisotropic critical current density induced by planar defects in $\text{CaKFe}_4\text{As}_4$. <i>Npj Quantum Materials</i> , 2019, 4, .	1.1	42
22	Doping evolution of the quasiparticle excitations in heavily hole-doped $\text{BaKFe}_2\text{As}_2$. <i>Physical Review B</i> , 2019, 100, 040501.	1.1	41
23	Relation between the nodal and antinodal gap and critical temperature in superconducting Bi_2Tl_2 . <i>Nature Communications</i> , 2013, 4, 1815.	5.8	40
24	Synthesis and physical properties of $\text{Ca}_{1-x}\text{RE}_x\text{FeAs}_2$ with $\text{RE} = \text{La, Gd}$. <i>Applied Physics Express</i> , 2014, 7, 073102.	1.1	39
25	Possible hydrogen doping and enhancement of T_c ($=35\text{ K}$) in a LaFeAsO -based superconductor. <i>Applied Physics Letters</i> , 2010, 96, 072514.	1.5	35
26	Critical current density and vortex dynamics in pristine and proton-irradiated $(\text{Ba,K})\text{Fe}_2\text{As}_2$. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 494, 106-108.	0.6	35
27	Coexisting spin resonance and long-range magnetic order of $\text{EuRbFe}_4\text{As}_4$. <i>Physical Review B</i> , 2019, 100, 040501.	1.1	32
28	Three-dimensional nature of normal and superconducting states in BaNi_2As_2 crystals with the ThCr_2As_2 structure. <i>Physical Review B</i> , 2009, 79, .	1.1	32
29	Novel electronic nematicity in heavily hole-doped iron pnictide superconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6424-6429.	3.3	29
30	Distinct doping dependence of critical temperature and critical current density in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductor. <i>Scientific Reports</i> , 2016, 6, 26671.	1.6	27
31	Hysteretic superconducting resistive transition in $\text{Ba}_{0.07}\text{K}_{0.93}\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2013, 87, .	1.1	24
32	Strong Electronic Correlations in Iron Pnictides: Comparison of Optical Spectra for BaFe_2As_2 -Related Compounds. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 104703.	0.7	24
33	Two distinct superconducting states in KFe_2As_2 under high pressure. <i>Physical Review B</i> , 2014, 89, .	1.1	24
34	Crossover from bad to good metal in BaFe_2As_2 . <i>Physical Review B</i> , 2014, 89, .		

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37	Three-terminal stand-alone superconducting terahertz emitter. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	21
38	Fabrication of small superconducting coils using (Ba,A)Fe ₂ As ₂ (A: Na, K) round wires with large critical current densities. <i>Superconductor Science and Technology</i> , 2021, 34, 105008.	1.8	21
39	Mechanism of the forward-angle(d,pn)reaction at intermediate energies. <i>Physical Review C</i> , 1998, 58, 2180-2191.	1.1	20
40	Large enhancement of superconducting transition temperature of SrBi3 induced by Na substitution for Sr. <i>Scientific Reports</i> , 2015, 5, 10089.	1.6	20
41	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.	0.7	20
42	Superconductivity on Hole-Doping Side of (La _{0.5} Na _{0.5})Fe ₂ As ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 369-374.	6.6	20
43	Enhancement of critical current density in (Ba,Na)Fe ₂ As ₂ round wires using high-pressure sintering. <i>Superconductor Science and Technology</i> , 2020, 33, 065001.	1.8	20
44	Enhanced high-field transport critical current densities observed for ex situ PIT processed Ag/(Ba, K)Fe ₂ As ₂ thin tapes. <i>Superconductor Science and Technology</i> , 2013, 26, 065003.	1.8	19
45	Superconductivity in a New 1144-Type Family of (La,Na)AFe ₄ As ₄ (A = Rb or Cs). <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 868-873.	2.1	19
46	Compact High- T_c Superconducting Terahertz emitter operating up to 86 K. <i>Physical Review Applied</i> , 2018, 10, .	1.5	18
47	Synthesis, structure, and phase diagram of (Sr _{1-x} Na _x)Fe ₂ As ₂ superconductors. <i>Superconductor Science and Technology</i> , 2015, 28, 062001.	1.8	17
48	Antiferroic electronic structure in the nonmagnetic superconducting state of the iron-based superconductors. <i>Science Advances</i> , 2017, 3, e1700466.	4.7	17
49	Superconductivity in Uncollapsed Tetragonal LaFe ₂ As ₂ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1018-1023.	2.1	17
50	New Intermetallic Ternary Phosphide Chalcogenide A ₂ P ₂ X ₂ (A = Zr, Hf; X = S, Tl) <i>ETQ</i> 0.0 0 rgBT /Overlock 83. 074713.	0.7	16
51	Resonant Cavity Modes in Bi ₂ S ₂ O ₈ Intimate Josephson Junction Star. <i>Physical Review Applied</i> , 2019, 11, .	5.6	16
52	Superconductivity in layered ZrP ₂ Se ₂ with PbFCl-type structure. <i>Superconductor Science and Technology</i> , 2016, 29, 055004.	1.8	15
53	Quasiparticle dynamics in overdoped Bi _{1.4} Pb _{0.7} Sr _{1.9} CaCu ₂ O ₈ + δ : Coexistence of superconducting gap and pseudogap below T _c . <i>Physical Review B</i> , 2010, 82, .	1.1	14
54	Crystal Structure and Superconductivity of Ba ₂ Ge ₇ and Ba ₃ Ir ₄ Ge ₁₆ with Two-Dimensional Ba-Ge Networks. <i>Journal of the American Chemical Society</i> , 2014, 136, 5245-5248.	6.6	14

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55	A New Landscape of Multiple Dispersion Kinks in a High-T _c Cuprate Superconductor. Scientific Reports, 2017, 7, 4830.	1.6	14
56	Elastoresistance measurements on CaKFe_4 and KCa_2 mat. Physical Review B, 2020, 102, .	1.1	14
57	Developments of $(\text{Ba},\text{Na})\text{Fe}_2\text{As}_2$ and $\text{CaKFe}_4\text{As}_4$ HIP round wires. Superconductor Science and Technology, 2020, 33, 104001.	1.8	14
58	Reversed anisotropy of the in-plane resistivity in the antiferromagnetic phase of iron tellurides. Physical Review B, 2015, 91, .	1.1	13
59	Probing the energy gap of high-temperature cuprate superconductors by resonant inelastic x-ray scattering. Npj Quantum Materials, 2018, 3, .	1.8	13
60	Absence of superconductivity in the collapsed tetragonal phase of $\text{KF}_2\text{eA}_2\text{s}$ under hydrostatic pressure. Physical Review B, 2016, 94, .	1.1	12
61	Synthesis of $\text{CaKFe}_4\text{As}_4$ bulk samples with high critical current density using a spark plasma sintering technique. Superconductor Science and Technology, 2020, 33, 094005.	1.8	12
62	Highly c-axis orientated superconducting core and large critical current density in $\text{Ba}_0.6\text{Na}_0.4\text{Fe}_2\text{As}_2$ powder-in-tube tape. Scientific Reports, 2019, 9, 13064.	1.6	11
63	Superconductivity induced by Mg deficiency in noncentrosymmetric phosphide Mg_2Rh_3 . Physical Review Materials, 2019, 3, .	0.9	11
64	Doping dependence of the electron-phonon and electron-spin fluctuation interactions in the high-T _c superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. New Journal of Physics, 2013, 15, 103027.	1.2	10
65	Large critical current densities in a silver-sheathed $(\text{Sr},\text{Na})\text{Fe}_2\text{As}_2$ tape. Superconductor Science and Technology, 2015, 28, 105007.	1.8	10
66	Structural Phase Transitions and Superconductivity Induced in Antiperovskite Phosphide CaPd_3P . Inorganic Chemistry, 2020, 59, 12397-12403.	1.9	10
67	Elucidating the origin of planar defects that enhance critical current density in $\text{CaKFe}_4\text{As}_4$ single crystals. Superconductor Science and Technology, 2021, 34, 034003.	1.8	10
68	Electronic structures and spin states of BaFe_2As_2 and SrFe_2As_2 probed by x-ray emission spectroscopy at Fe and As K-absorption edges. Physical Review B, 2017, 96, .	1.1	9
69	Superconducting state in $(\text{Eu}_{1-x}\text{Ca}_x)\text{RbFe}_4\text{As}_4$ with 1144-type Structure. Journal of Physics: Conference Series, 2018, 969, 012027.	0.3	9
70	Superconductivity-driven ferromagnetism and spin manipulation using vortices in the magnetic superconductor $\text{EuRbFe}_4\text{As}_4$. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
71	Superconductivity at 4.4 K in Ba_2Bi_3 . Superconductor Science and Technology, 2014, 27, 072001.	1.8	8
72	Synthesis and Superconductivity of a Strontium Digermanide $\text{SrGe}_2\text{ThSi}_2$ with ThSi_2 Structure. Inorganic Chemistry, 2017, 56, 8590-8595.	1.9	8

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73	Unconventional spectral signature of Tc in a pure d-wave superconductor. Nature, 2022, 601, 562-567.	13.7	8
74	In-plane electronic anisotropy in the antiferromagnetic orthorhombic phase of isovalent-substituted $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductors. Physical Review B, 2015, 92, .	1.1	7
75	Effect of non-magnetic rare earth substitution for Zr on mixed anion $\text{Zr}(\text{P}, \text{Se})_2$ superconductors. Journal of Physics: Conference Series, 2018, 1054, 012002.	0.3	7
76	Intrinsic defect structures of polycrystalline $\text{CaKFe}_4\text{As}_4$ superconductors. Physical Chemistry Chemical Physics, 2021, 23, 19827-19833.	1.3	7
77	Antiperovskite Superconductor LaPd_3P with Noncentrosymmetric Cubic Structure. Inorganic Chemistry, 2021, 60, 18017-18023.	1.9	7
78	Effect of out-of-plane disorder on superconducting gap anisotropy in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8-x}$ superconductors. Physical Review B, 2012, 85, .	1.1	6
79	Fabrication of iron-based superconducting tapes using $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ with $x = 0.3$ and 0.4 . Superconductor Science and Technology, 2017, 30, 054001.	1.8	6
80	Electrical resistivity of FeAs , FeAs_2 and Fe_2As at homogeneous high pressures. Journal of Physics: Conference Series, 2017, 950, 042024.	0.3	6
81	Direct observation of in-plane anisotropy of the superconducting critical current density in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductors. Physical Review B, 2018, 97, .	1.1	6
82	Unusual thermoelectric properties of BaFe_2As_2 in high magnetic fields. Physical Review B, 2018, 98, .	1.1	6
83	In-plane and out-of-plane properties of a BaFe_2As_2 single crystal. Journal of Physics Condensed Matter, 2019, 31, 214003.	0.7	6
84	High-critical-current-ratio superconducting joint between $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes fabricated by angle-polishing method. Superconductor Science and Technology, 2020, 33, 084011.	1.8	6
85	Superconductivity of centrosymmetric and non-centrosymmetric phases in antiperovskite $(\text{Ca}, \text{Sr})\text{Pd}_3\text{P}$. Journal of Alloys and Compounds, 2021, 882, 160733.	2.8	6
86	A Resistive Transition between the Normal and Superconducting State of BaNi_2P_2 Single Crystals. Journal of the Physical Society of Japan, 2008, 77, 136-137.	0.7	5
87	Evidence of a universal relation between electron-mode coupling and T_c in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductor from laser angle-resolved photoemission spectroscopy. Physical Review B, 2014, 90, .	1.1	5
88	Single Crystal growth of mixed anion $\text{Zr}(\text{P}, \text{Se})_2$ superconductor and related materials. Journal of Physics: Conference Series, 2018, 1054, 012003.	0.3	5
89	Effects of Swift-Particle Irradiations on Critical Current Density in $\text{CaKFe}_4\text{As}_4$. Journal of Physics: Conference Series, 2019, 1293, 012013.	0.3	5
90	Anomalous peak effect in iron-based superconductors $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ ($x = 0.69$ and 0.76) for magnetic-field directions close to the ab plane and its possible relation to the spin paramagnetic effect. Physical Review B, 2019, 99, .	1.1	5

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109	Unusual nodal behaviors of the superconducting gap in the iron-based superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2018, 98, .	1.1	2
110	Effects of post-growth heat treatment on electronic phase diagrams and critical current densities of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ and $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$ single crystals. Physical Review B, 2018, 98, .	1.1	2
111	Evidence for Dirac nodal-line fermions in a phosphorous square-net superconductor. Physical Review B, 2022, 105, .	1.1	2
112	Measurement of the polarization transfer $\text{DNN}(0^\circ)$ for (p, n) Tj ETQq0 0 0 _{rgBT} /Overlock 10 TF	0.3	1
113	Doping effect on the carrier scattering in iron-pnictide superconductors studied by charge transport. Journal of Physics and Chemistry of Solids, 2011, 72, 407-409.	1.9	1
114	Development of Fe-based superconducting wires for liquid-hydrogen level sensors. Journal of Physics: Conference Series, 2017, 871, 012061.	0.3	1
115	Rapid enhancement of nodal quasiparticle mass with heavily underdoping in Bi2212 . Physica B: Condensed Matter, 2018, 536, 667-671.	1.3	1
116	Effect of non-magnetic rare earth substitution for Zr on mixed anion $\text{Zr}(\text{P}, \text{Se})_2$ superconductors II. Journal of Physics: Conference Series, 2019, 1293, 012003.	0.3	1
117	Doping dependence of the pinning efficiency in K-doped Ba122 single crystals prior to and after fast neutron irradiation. Superconductor Science and Technology, 2019, 32, 094004.	1.8	1
118	Experimental and Computational Determination of Optimal Boron Content in Layered Superconductor $\text{Sc}_{20}\text{C}_{8x}\text{B}_x\text{C}_{20}$. Inorganic Chemistry, 2020, 59, 14290-14295.	1.9	1
119	Effect of non-magnetic rare earth substitution for A site in mixed anion APX superconductors. Journal of Physics: Conference Series, 2020, 1590, 012007.	0.3	1
120	Fabrication of $(\text{Ba}, \text{Na})\text{Fe}_2\text{As}_2$ round wires and tapes using HIP process. Journal of Physics: Conference Series, 2020, 1590, 012027.	0.3	1
121	Superconducting gap and pseudogap in the surface states of the iron-based superconductor PrFeAsO_{1-y} studied by angle-resolved photoemission spectroscopy. Physical Review Research, 2021, 3, .	1.3	1
122	Posttreatment Effects on the Crystal Structure and Superconductivity of Ca-Free Double-Layered Cuprate $\text{Sr}_2\text{SrCu}_2\text{O}_{4+y}\text{F}_2$. Chemistry of Materials, 2021, 33, 9690-9697.	3.2	1
123	Investigation of high-energy ultrasonication of $\text{RE}_2\text{BaCuO}_5$ (RE = Y, Gd) on the growth and superconducting properties of $\text{REBa}_2\text{Cu}_3\text{O}_{7-\delta}$ top-seeded melt textured bulks. Superconductor Science and Technology, 2022, 35, 074003.	1.8	1
124	Characteristic charge transport in oxygen-deficiency-controlled LnFeAsO ($\text{Ln} = \text{La}$ and Nd). Physica C: Superconductivity and Its Applications, 2010, 470, S324-S325.	0.6	0
125	Disorder-Induced Change of Gap Anisotropy in $\text{Bi}_{2+x}\text{Sr}_{2-x}\text{CaCu}_2\text{O}_{8+\delta}$ Studied by Raman Spectroscopy. Journal of the Physical Society of Japan, 2012, 81, SB033.	0.7	0
126	Superconducting Gap Structure in Out-of-plane-disordered $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ as Studied by Raman Spectroscopy. Physics Procedia, 2013, 45, 37-40.	1.2	0

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127	Synthesis PbFCl-Type Mixed Anion PX ($X=Hf, X=S, Se$) Superconductors Related with Topological Materials by High-Pressure Technique. Materials Science Forum, 0, 1016, 708-714.	0.3	0
128	Development of Superconducting Coils using (Ba, Na)Fe ₂ As ₂ Round Wires with Large Critical Current. Journal of Physics: Conference Series, 2021, 1975, 012020.	0.3	0
129	Direct observation of the electronic structure of the layered phosphide superconductor $ZrP_{2n}O_{n+2}$. Physical Review B, 2022, 105, .		