Shigeyuki Ishida

List of Publications by Citations

123 papers	2,405 citations	26 h-index	46 g-index
132 ext. papers	2,775 ext. citations	4.8 avg, IF	4.42 L-index

#	Paper	IF	Citations
123	Phase competition in trisected superconducting dome. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18332-7	11.5	194
122	New-Structure-Type Fe-Based Superconductors: CaAFe4As4 (A = K, Rb, Cs) and SrAFe4As4 (A = Rb, Cs). *Journal of the American Chemical Society*, **2016**, 138, 3410-5	16.4	169
121	Unprecedented anisotropic metallic state in undoped iron arsenide BaFe2As2 revealed by optical spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 12238-42	11.5	158
120	Evolution of the optical spectrum with doping in Ba(Fe1−xCox)2As2. *Physical Review B*, **2010**, 81,	3.3	116
119	Single Crystal Growth and Characterization of the Iron-Based Superconductor KFe2As2Synthesized by KAs Flux Method. *Journal of the Physical Society of Japan*, **2010**, 79, 124713	1.5	104
118	Anisotropy of the in-plane resistivity of underdoped Ba(Fe(1-x)Co(x))2As2 superconductors induced by impurity scattering in the antiferromagnetic orthorhombic phase. *Physical Review Letters*, **2013**, 110, 207001	7.4	86
117	Doping-dependent nodal fermi velocity of the high-temperature superconductor Bi2Sr2CaCu2O(8+δ)revealed using high-resolution angle-resolved photoemission spectroscopy. *Physical Review Letters*, **2010**, 104, 207002	7.4	84
116	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi2Sr2CaCu2O(8+δ) *Nature Materials*, **2015**, 14, 37-42	27	75
115	Complete Fermi surface in BaFe2As2 observed via Shubnikov-de Haas oscillation measurements on detwinned single crystals. *Physical Review Letters*, **2011**, 107, 176402	7.4	74
114	Dispersive charge density wave excitations in Bi2Sr2CaCu2O8+δ*Nature Physics*, **2017**, 13, 952-956	16.2	72
113	Manifestations of multiple-carrier charge transport in the magnetostructurally ordered phase of BaFe2As2. *Physical Review B*, **2011**, 84,	3.3	63
112	Effect of Co doping on the in-plane anisotropy in the optical spectrum of underdoped Ba(Fe(1-x)Co(x))2As2. *Physical Review Letters*, **2012**, 109, 217003	7.4	60
111	Superconductivity in Fe-Based Compound EuAFe4As4 (A = Rb and Cs). *Journal of the Physical Society of Japan*, **2016**, 85, 064710	1.5	53
110	Abrupt change in the energy gap of superconducting Ba1−xKxFe2As2 single crystals with hole doping. *Physical Review B*, **2012**, 86,	3.3	51
109	Evidence for the importance of extended Coulomb interactions and forward scattering in cuprate superconductors. *Physical Review Letters*, **2012**, 108, 166404	7.4	40
108	Doping-dependent critical current properties in K, Co, and P-doped BaFe2As2 single crystals. *Physical Review B*, **2017**, 95,	3.3	39
107	Doping evolution of the quasiparticle excitations in heavily hole-doped Ba1−xKxFe2As2: A possible superconducting gap with sign-reversal between hole pockets. *Physical Review B*, **2014**, 89,	3.3	39

106	Effect of doping on the magnetostructural ordered phase of iron arsenides: a comparative study of the resistivity anisotropy in doped BaFe2As2 with doping into three different sites. *Journal of the American Chemical Society*, **2013**, 135, 3158-63	16.4	39
105	Normal-state charge dynamics in doped BaFe□As□roles of doping and necessary ingredients for superconductivity. *Scientific Reports*, **2014**, 4, 5873	4.9	38
104	Possible hydrogen doping and enhancement of Tc (=35 K) in a LaFeAsO-based superconductor. *Applied Physics Letters*, **2010**, 96, 072514	3.4	34
103	Synthesis and physical properties of Ca1□REx□FeAs2 with RE= La□d. *Applied Physics Express*, **2014**, 7, 073102	2.4	33
102	Enhancement of the superconducting critical temperature in Bi2Sr2CaCu2O8+□ by controlling disorder outside CuO2 planes. *Physical Review B*, **2009**, 79,	3.3	33
101	Relation between the nodal and antinodal gap and critical temperature in superconducting Bi2212. *Nature Communications*, **2013**, 4, 1815	17.4	32
100	Three-dimensional nature of normal and superconducting states in BaNi2P2 single crystals with the ThCr2Si2-type structure. *Physical Review B*, **2009**, 79,	3.3	29
99	Large and significantly anisotropic critical current density induced by planar defects in CaKFe4As4 single crystals. *Physical Review B*, **2019**, 99,	3.3	28
98	Unique defect structure and advantageous vortex pinning properties in superconducting CaKFe4As4. *Npj Quantum Materials*, **2019**, 4,	5	28
97	Two distinct superconducting states in KFe2As2 under high pressure. *Physical Review B*, **2014**, 89,	3.3	23
96	Distinct doping dependence of critical temperature and critical current density in Ba1-xKxFe2As2 superconductor. *Scientific Reports*, **2016**, 6, 26671	4.9	23
95	Hysteretic superconducting resistive transition in Ba0.07K0.93Fe2As2. *Physical Review B*, **2013**, 87,	3.3	22
94	Strong Electronic Correlations in Iron Pnictides: Comparison of Optical Spectra for BaFe2As2-Related Compounds. *Journal of the Physical Society of Japan*, **2014**, 83, 104703	1.5	21
93	Strong carrier-scattering in iron-pnictide superconductors LnFeAsO1□ (Ln=La and Nd) obtained from charge transport experiments. *Physical Review B*, **2010**, 81,	3.3	21
92	Three-terminal stand-alone superconducting terahertz emitter. *Applied Physics Letters*, **2015**, 107, 122602	3.4	20
91	Crossover from bad to good metal in BaFe2(As1□Px)2 induced by isovalent P substitution. *Physical Review B*, **2013**, 88,	3.3	19
90	Mechanism of the forward-angle (d,pn) reaction at intermediate energies. *Physical Review C*, **1998**, 58, 2180-2191	2.7	19
89	Novel electronic nematicity in heavily hole-doped iron pnictide superconductors. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 6424-6429	11.5	18

88	Enhanced high-field transport critical current densities observed forex situPIT processed Ag/(Ba, K)Fe2As2thin tapes. *Superconductor Science and Technology*, **2013**, 26, 065003	3.1	18
87	Coexisting spin resonance and long-range magnetic order of Eu in EuRbFe4As4. *Physical Review B*, **2019**, 100,	3.3	17
86	Synthesis, structure, and phase diagram of (Sr1−xNax)Fe2As2superconductors. *Superconductor Science and Technology*, **2015**, 28, 062001	3.1	16
85	Single-Crystal Growth of Ba1−xKxFe2As2 by KAs Self-Flux Method. *Journal of the Physical Society of Japan*, **2016**, 85, 034718	1.5	15
84	Large enhancement of superconducting transition temperature of SrBi3 induced by Na substitution for Sr. *Scientific Reports*, **2015**, 5, 10089	4.9	15
83	Superconductivity on Hole-Doping Side of (LaNa)FeAs. *Journal of the American Chemical Society*, **2018**, 140, 369-374	16.4	14
82	Quasiparticle dynamics in overdoped Bi1.4Pb0.7Sr1.9CaCu2O8+δCoexistence of superconducting gap and pseudogap below Tc. *Physical Review B*, **2010**, 82,	3.3	14
81	Resonant Cavity Modes in Bi2Sr2CaCu2O8+x Intrinsic Josephson Junction Stacks. *Physical Review Applied*, **2019**, 11,	4.3	13
80	Superconductivity in a New 1144-Type Family of (La,Na)AFeAs (A = Rb or Cs). *Journal of Physical Chemistry Letters*, **2018**, 9, 868-873	6.4	13
79	New Intermetallic Ternary Phosphide Chalcogenide AP2−xXx (A = Zr, Hf; X = S, Se) Superconductors with PbFCl-Type Crystal Structure. *Journal of the Physical Society of Japan*, **2014**, 83, 074713	1.5	12
78	Superconductivity in LaBi3with AuCu3-type structure. *Superconductor Science and Technology*, **2016** , 29, 03LT02	3.1	11
77	Compact High-Tc Superconducting Terahertz emitter operating up to 86 K. *Physical Review Applied*, **2018**, 10,	4.3	11
76	Reversed anisotropy of the in-plane resistivity in the antiferromagnetic phase of iron tellurides. *Physical Review B*, **2015**, 91,	3.3	11
75	Antiferroic electronic structure in the nonmagnetic superconducting state of the iron-based superconductors. *Science Advances*, **2017**, 3, e1700466	14.3	10
74	Superconductivity in layered ZrP2−xSexwith PbFCl-type structure. *Superconductor Science and Technology*, **2016**, 29, 055004	3.1	10
73	Absence of superconductivity in the collapsed tetragonal phase of KFe2As2 under hydrostatic pressure. *Physical Review B*, **2016**, 94,	3.3	10
72	A New Landscape of Multiple Dispersion Kinks in a High-T Cuprate Superconductor. *Scientific Reports*, **2017**, 7, 4830	4.9	9
71	Probing the energy gap of high-temperature cuprate superconductors by resonant inelastic x-ray scattering. *Npj Quantum Materials*, **2018**, 3,	5	9

70	Highly c-axis orientated superconducting core and large critical current density in BaNaFeAs powder-in-tube tape. *Scientific Reports*, **2019**, 9, 13064	4.9	8
69	Large critical current densities in a silver-sheathed (Sr,Na)Fe2As2tape. *Superconductor Science and Technology*, **2015**, 28, 105007	3.1	8
68	Synthesis of CaKFe4As4 bulk samples with high critical current density using a spark plasma sintering technique. *Superconductor Science and Technology*, **2020**, 33, 094005	3.1	8
67	Enhancement of critical current density in (Ba,Na)Fe2As2 round wires using high-pressure sintering. *Superconductor Science and Technology*, **2020**, 33, 065001	3.1	8
66	Crystal structure and superconductivity of BaIrGe3and BaIrGe3with two-dimensional Ba-Ge networks. *Journal of the American Chemical Society*, **2014**, 136, 5245-8	16.4	8
65	Developments of (Ba,Na)Fe2As2 and CaKFe4As4 HIP round wires. *Superconductor Science and Technology*, **2020**, 33, 104001	3.1	8
64	Superconductivity in Uncollapsed Tetragonal LaFeAs. *Journal of Physical Chemistry Letters*, **2019**, 10, 1018-1023	6.4	8
63	Elastoresistance measurements on CaKFe4As4 and KCa2Fe4As4F2 with the Fe site of C2v symmetry. *Physical Review B*, **2020**, 102,	3.3	7
62	Superconducting state in (Eu1-xCax)RbFe4As4with 1144-type Structure. *Journal of Physics: Conference Series*, **2018**, 969, 012027	0.3	7
61	Doping dependence of the electron–phonon and electron–spin fluctuation interactions in the high-Tcsuperconductor Bi2Sr2CaCu2O8+δ*New Journal of Physics*, **2013**, 15, 103027	2.9	7
60	Fabrication of iron-based superconducting tapes using Ba1−xKxFe2As2withx= 0.3 and 0.4. *Superconductor Science and Technology*, **2017**, 30, 054001	3.1	6
59	In-plane electronic anisotropy in the antiferromagnetic orthorhombic phase of isovalent-substituted Ba(Fe1−xRux)2As2. *Physical Review B*, **2015**, 92,	3.3	6
58	Effect of out-of-plane disorder on superconducting gap anisotropy in Bi2+xSr2−xCaCu2O8+δas seen via Raman spectroscopy. *Physical Review B*, **2012**, 85,	3.3	6
57	Electrical resistivity of FeAs, FeAs2 and Fe2As at homogeneous high pressures. *Journal of Physics: Conference Series*, **2017**, 950, 042024	0.3	5
56	Effects of Swift-Particle Irradiations on Critical Current Density in CaKFe4As4. *Journal of Physics: Conference Series*, **2019**, 1293, 012013	0.3	5
55	Synthesis and Superconductivity of a Strontium Digermanide SrGe with ThSi Structure. *Inorganic Chemistry*, **2017**, 56, 8590-8595	5.1	5
54	Evidence of a universal relation between electron-mode coupling and Tc in Ba1−xKxFe2As2 superconductor from laser angle-resolved photoemission spectroscopy. *Physical Review B*, **2014**, 90,	3.3	5
53	A Resistive Transition between the Normal and Superconducting State of BaNi2P2Single Crystals. *Journal of the Physical Society of Japan*, **2008**, 77, 136-137	1.5	5

52	Superconductivity induced by Mg deficiency in noncentrosymmetric phosphide Mg2Rh3P. *Physical Review Materials*, **2019**, 3,	3.2	5
51	Imbalance of Hole Density between Inner and Outer Planes and Superconducting Transition Temperature in Multilayered Cuprates **2014**,		5
50	Structural Phase Transitions and Superconductivity Induced in Antiperovskite Phosphide CaPdP. *Inorganic Chemistry*, **2020**, 59, 12397-12403	5.1	5
49	Elucidating the origin of planar defects that enhance critical current density in CaKFe4As4 single crystals. *Superconductor Science and Technology*, **2021**, 34, 034003	3.1	5
48	Unusual thermoelectric properties of BaFe2As2 in high magnetic fields. *Physical Review B*, **2018**, 98,	3.3	5
47	In-plane and out-of-plane properties of a BaFeAs single crystal. *Journal of Physics Condensed Matter* , **2019**, 31, 214003	1.8	4
46	Superconductivity at 4.4 K in Ba2Bi3. *Superconductor Science and Technology*, **2014**, 27, 072001	3.1	4
45	Doping dependence of low-energy quasiparticle excitations in superconducting Bi2212. *Nanoscale Research Letters*, **2013**, 8, 515	5	4
44	Critical current density and vortex dynamics in pristine and proton-irradiated (Ba,K)Fe2As2. *Physica C: Superconductivity and Its Applications*, **2013**, 494, 106-108	1.3	4
43	Optical response of FeAs-based compounds. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S326-S327	1.3	4
42	Research Update: Structural and transport properties of (Ca,La)FeAs2 single crystal. *APL Materials*, **2016**, 4, 020702	5.7	4
41	Effect of non-magnetic rare earth substitution for Zr on mixed anion Zr(P, Se)2 superconductors. *Journal of Physics: Conference Series*, **2018**, 1054, 012002	0.3	4
40	Direct observation of in-plane anisotropy of the superconducting critical current density in Ba(Fe1−xCox)2As2 crystals. *Physical Review B*, **2018**, 97,	3.3	3
39	Fe-Based Superconductors of (LnNa)FeAs (Ln = Ce, Pr). *Inorganic Chemistry*, **2018**, 57, 9223-9229	5.1	3
38	Superconductivity in a Scandium Borocarbide with a Layered Crystal Structure. *Inorganic Chemistry*, **2019**, 58, 15629-15636	5.1	3
37	Electronic structures and spin states of BaFe2As2 and SrFe2As2 probed by x-ray emission spectroscopy at Fe and As K-absorption edges. *Physical Review B*, **2017**, 96,	3.3	3
36	Electronic Raman scattering on out-of-plane disordered Bi2Sr2CaCu2O8+δ How the pseudogap affects the superconducting Raman response. *Physical Review B*, **2015**, 91,	3.3	3
35	Superconducting gap in iron pnictides studied by optical spectroscopy. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 511-513	3.9	3

34	Sn addition effects on CaKFe4As4 superconductors. *Superconductor Science and Technology*, **2020**, 33, 104004	3.1	3
33	Fabrication of small superconducting coils using (Ba,A)Fe2As2 (A: Na, K) round wires with large critical current densities. *Superconductor Science and Technology*, **2021**, 34, 105008	3.1	3
32	Anomalous peak effect in iron-based superconductors Ba1□KxFe2As2 (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,	3.3	2
31	High-critical-current-ratio superconducting joint between Ba0.6K0.4Fe2As2 tapes fabricated by angle-polishing method. *Superconductor Science and Technology*, **2020**, 33, 084011	3.1	2
30	Intrinsic defect structures of polycrystalline CaKFeAs superconductors. *Physical Chemistry Chemical Physics*, **2021**, 23, 19827-19833	3.6	2
29	Superconductivity of centrosymmetric and non-centrosymmetric phases in antiperovskite (Ca,Sr)Pd3P. *Journal of Alloys and Compounds*, **2021**, 882, 160733	5.7	2
28	Unusual nodal behaviors of the superconducting gap in the iron-based superconductor Ba(Fe0.65Ru0.35)2As2: Effects of spin-orbit coupling. *Physical Review B*, **2017**, 95,	3.3	1
27	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	3.1	1
26	Quantum oscillations in iron-based superconductors: BaFe2As2vs. KFe2As2. *Journal of Physics: Conference Series*, **2013**, 449, 012022	0.3	1
25	Transport properties of single crystal BaNi2P2. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 905-907	1.3	1
24	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	3.9	1
23	Measurement of the polarization transfer DNN(0□) for (p?,n?) reactions at 295 MeV. *AIP Conference Proceedings*, **1995**,	0	1
22	Unconventional spectral signature of T in a pure d-wave superconductor.. *Nature*, **2022**, 601, 562-567	50.4	1
21	Antiperovskite Superconductor LaPdP with Noncentrosymmetric Cubic Structure. *Inorganic Chemistry*, **2021**, 60, 18017-18023	5.1	1
20	Temperature Dependence of the Local Structure and Iron Magnetic Moment in the Self-Doped CaKFe4As4 Iron-Based Superconductor. *Journal of Physical Chemistry C*, **2021**, 125, 10810-10816	3.8	1
19	Unconventional Multi-gap Superconductivity and Antiferromagnetic Spin Fluctuations in New Iron-arsenide LaFe2As2 in Heavily Electron-doped Regime. *Journal of the Physical Society of Japan*, **2019**, 88, 113702	1.5	1
18	Calcium-free double-layered cuprate superconductors with critical temperature above 100 K. *Communications Materials*, **2021**, 2,	6	1
17	Single Crystal growth of mixed anion Zr(P, Se)2 superconductor and related materials. *Journal of Physics: Conference Series*, **2018**, 1054, 012003	0.3	1

16	Superconductivity-driven ferromagnetism and spin manipulation using vortices in the magnetic superconductor EuRbFeAs. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
15	Fabrication of (Ba,Na)Fe2As2 round wires and tapes using HIP process. *Journal of Physics: Conference Series*, **2020**, 1590, 012027	0.3	0
14	Development of Fe-based superconducting wires for liquid-hydrogen level sensors. *Journal of Physics: Conference Series*, **2017**, 871, 012061	0.3	0
13	Effect of non-magnetic rare earth substitution for Zr on mixed anion Zr(P, Se)2 superconductors II. *Journal of Physics: Conference Series*, **2019**, 1293, 012003	0.3	0
12	Experimental and Computational Determination of Optimal Boron Content in Layered Superconductor ScCBC. *Inorganic Chemistry*, **2020**, 59, 14290-14295	5.1	0
11	Superconductivity in a 122-type Fe-based compound (La,Na,K)FeAs. *Scientific Reports*, **2018**, 8, 16827	4.9	0
10	Cuprates phase diagram deduced from magnetic susceptibility: What is the □true□pseudogap line?. *Solid State Communications*, **2022**, 348-349, 114689	1.6	0
9	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	
8	Rapid enhancement of nodal quasiparticle mass with heavily underdoping in Bi2212. *Physica B: Condensed Matter*, **2018**, 536, 667-671	2.8	
7	Superconducting Gap Structure in Out-of-plane-disordered Bi2Sr2CaCu2O8+□as Studied by Raman Spectroscopy. *Physics Procedia*, **2013**, 45, 37-40		
6	Disorder-Induced Change of Gap Anisotropy in Bi2+xSr2-xCaCu2O8+□tudied by Raman Spectroscopy. *Journal of the Physical Society of Japan*, **2012**, 81, SB033	1.5	
5	Characteristic charge transport in oxygen-deficiency-controlled LnFeAsO1-y (Ln = La and Nd). *Physica C: Superconductivity and Its Applications*, **2010**, 470, S324-S325	1.3	
4	Hybridization of Bogoliubov Quasiparticles between Adjacent CuO_{2} Layers in the Triple-Layer Cuprate Bi_{2}Sr_{2}Ca_{2}Cu_{3}O_{10+□Studied by Angle-Resolved Photoemission Spectroscopy. *Physical Review Letters*, **2021**, 127, 217004	7.4	
3	Development of Superconducting Coils using (Ba, Na)Fe2As2 Round Wires with Large Critical Current. *Journal of Physics: Conference Series*, **2021**, 1975, 012020	0.3	
2	Synthesis PbFCl-Type Mixed Anion APX(A=Hf, X=S, Se) Superconductors Related with Topological Materials by High-Pressure Technique. *Materials Science Forum*,1016, 708-714	0.4	
1	Posttreatment Effects on the Crystal Structure and Superconductivity of Ca-Free Double-Layered Cuprate Sr2SrCu2O4+yF2□. *Chemistry of Materials*, **2021**, 33, 9690-9697	9.6	