Shigeru Kasahara

List of Publications by Year
in descending order

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138 papers	6,919 citations	50276 46 h-index	60623 81 g-index
139 all docs	139 docs citations	139 times ranked	4086 citing authors

#	Article	IF	Citations
1	Evolution from non-Fermi- to Fermi-liquid transport via isovalent doping in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
19	Giant superconducting fluctuations in the compensated semimetal FeSe at the BCSâ€“BEC crossover. Nature Communications, 2016, 7, 12843.	12.8	100
20	Pressure-Induced Antiferromagnetic Transition and Phase Diagram in FeSe. Journal of the Physical Society of Japan, 2015, 84, 063701.	1.6	94
21	Nodal gap structure of superconducting BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

#	ARTICLE	IF	CITATIONS
37	de Haasâ€“van Alphen Study of the Fermi Surfaces of Superconducting LiFeP and LiFeAs. Physical Review Letters, 2012, 108, 047002.	7.8	61
38	Evidence for Time-Reversal Symmetry Breaking of the Superconducting State near Twin-Boundary Interfaces in FeSe Revealed by Scanning Tunneling Spectroscopy. Physical Review X, 2015, 5, .	8.9	61
39	Direct observation of lattice symmetry breaking at the hidden-order transition in URu2Si2. Nature Communications, 2014, 5, 4188.	12.8	58
40	Two-Dimensional and Three-Dimensional Fermi Surfaces of Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>As</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:m ... 10	7.8	56
41	Superconducting gap anisotropy sensitive to nematic domains in FeSe. Nature Communications, 2018, 9, 282.	12.8	56
42	Quantum Vortex Core and Missing Pseudogap in the Multiband BCS-BEC Crossover Superconductor FeSe. Physical Review Letters, 2019, 122, 077001.	7.8	56
43	Specific-heat studies of the spin-orbit interaction in noncentrosymmetric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Li</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub> ... Physical Review B, 2007, 76, .	3.2	54
44	Chemical Pressure and Physical Pressure in BaFe₂(As_{1-<i>x</i>}P_{<i>x</i>})₂. Journal of the Physical Society of Japan, 2010, 79, 123706.	1.6	53
45	Abrupt recovery of Fermi-liquid transport following the collapse of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:math>axis in CaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow		

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55	Unconventional thermal metallic state of charge-neutral fermions in an insulator. Nature Physics, 2019, 15, 954-959.	16.7	35
56	Normal-state spin dynamics in the iron-pnictide superconductors BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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73	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	3.2	21
74	Rotationally resolved high-resolution spectrum of the S1â€“S0 transition of jet-cooled thioanisole. Physical Chemistry Chemical Physics, 2010, 12, 13243.	2.8	20
75	Impact of Disorder on the Superconducting Phase Diagram in BaFe₂(As_{1â^'}_xP_x)₂. Journal of the Physical Society of Japan, 2017, 86, 083706.	1.6	20
76	Presence and absence of itinerant gapless excitations in the quantum spin liquid candidate EtMe3Sb[Pd(dmit)2]2. Physical Review B, 2020, 101, .	3.2	20
77	Ultrafast nematic-orbital excitation in FeSe. Nature Communications, 2019, 10, 1946.	12.8	19
78	Interplane resistivity of isovalent doped BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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91	Description of Resonant Inelastic X-Ray Scattering in Correlated Metals. Physical Review X, 2021, 11, .	8.9	12
92	Topological surface conduction in Kondo insulator YbB₁₂. Journal Physics D: Applied Physics, 2021, 54, 404002.	2.8	11
93	Quasiparticle Nodal Plane in the Fulde-Ferrell-Larkin-Ovchinnikov State of FeSe. Physical Review Letters, 2021, 127, 257001.	7.8	11
94	Diamagnetic vortex barrier stripes in underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mm Physical Review B, 2016, 94, .	3.2	10
95	77Se-NMR Study under Pressure on 12%-S Doped FeSe. Journal of the Physical Society of Japan, 2019, 88, 033703.	1.6	10
96	Putative Hall response of the strange metal component in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:msub><mml:mi>Se</mml:mi><mml:m mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2021, 3, .	3.6	9
97	Characterization of FeSe single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, S497-S498.	1.2	8
98	Angle-resolved photoemission study on the superconducting iron-pnictides of BaFe2(As,P)2 with low energy photons. Solid State Communications, 2012, 152, 695-700.	1.9	8
99	Optical conductivity evidence of clean-limit superconductivity in LiFeAs. Physical Review B, 2015, 91, .	3.2	8
100	Quadrupolar charge dynamics in the nonmagnetic FeSe _{1â" x} S _x superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
101	Local magnetization anomalies and inhomogeneous vortex penetration in the crossing-lattices state ofBi2Sr2CaCu2O8+y. Physical Review B, 2005, 71, .	3.2	7
102	Physical Properties of Li₂Pd₃B and Li₂Pt₃B Superconductors. Materials Science Forum, 0, 561-565, 2079-2082.	0.3	6
103	Intrinsic suppression of the topological thermal Hall effect in an exactly solvable quantum magnet. Physical Review B, 2022, 105, .	3.2	6
104	Cryomagnetic system for the acoustic de Haas-van Alphen measurement. Physica B: Condensed Matter, 1993, 186-188, 165-168.	2.7	5
105	Low temperature specific heat of ternary germanide superconductor La3Pd4Ge4. Physica B: Condensed Matter, 2008, 403, 1119-1121.	2.7	5
106	Fermi surface ofIrTe2in the valence-bond state as determined by quantum oscillations. Physical Review B, 2015, 91, .	3.2	5
107	Pressure-induced reconstitution of Fermi surfaces and spin fluctuations in S-substituted FeSe. Scientific Reports, 2021, 11, 17265.	3.3	5
108	Charge-neutral fermions and magnetic field-driven instability in insulating YbIr3Si7. Nature Communications, 2022, 13, 394.	12.8	5

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109	Resistivity and thermal conductivity of an organic insulator Î²â€²â€“EtMe3Sb[Pd(dmit)2]2. Scientific Reports, 2022, 12, .	3.3	5
110	High pressure synthesis and magnetic properties of CaFe₂O₄-type NaMn₂O₄and LiMn₂O₄. Journal of Physics: Conference Series, 2009, 150, 042210.	0.4	4
111	Positive local magnetization in the superconducting state of PrOs4Sb12. Physica C: Superconductivity and Its Applications, 2007, 463-465, 71-75.	1.2	3
112	Superconductivity induced by isovalent doping in single crystals of BaFe2(As1-xPx)2. Physica C: Superconductivity and Its Applications, 2010, 470, S462-S463.	1.2	3
113	Universal relationship between low-energy antiferromagnetic fluctuations and superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></	3.2	3
	Physical Review B, 2019, 100, .		
114	NMR study under pressure on the iron-based superconductor FeSe1â^'xSx (x = 0.12 and 0.23): Relationship between nematicity and AF fluctuations. Modern Physics Letters B, 2020, 34, 2040048.	1.9	3
115	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. Physical Review Research, 2020, 2, .	3.6	3
116	Transport evidence for decoupled nematic and magnetic criticality in iron chalcogenides. Communications Physics, 2022, 5, .	5.3	3
117	Peculiar superconductivity in PrOs4Sb12 probed by local magnetization. Physica C: Superconductivity and Its Applications, 2005, 426-431, 381-385.	1.2	2
118	Specific heat of superconductors [, 0.5, and 1]. Physica B: Condensed Matter, 2008, 403, 1078-1080.	2.7	2
119	Superconducting Double Transition in PrOs4Sb12Probed by Local Magnetization Measurements and Magneto-Optical Imaging. Journal of the Physical Society of Japan, 2008, 77, 327-329.	1.6	2
120	P-concentration dependence of the quasiparticle density of states in BaFe₂(As_{1-x}P_x)₂. Journal of Physics: Conference Series, 2012, 391, 012127.	0.4	2
121	Dynamical behavior of vortices introduced into a layered superconductor Î°-(BEDT-TTF)2Cu(NCS) 2. Synthetic Metals, 2001, 120, 937-938.	3.9	1
122	Local Field Measurements in PrOs4Sb12 with Broken Time-Reversal Symmetry. AIP Conference Proceedings, 2006, , .	0.4	1
123	Pressure effect and superconducting properties of lithium ternary borides. Physica C: Superconductivity and Its Applications, 2007, 460-462, 89-90.	1.2	1
124	Specific heat of lithium ternary borides under magnetic field. Physica C: Superconductivity and Its Applications, 2007, 463-465, 111-114.	1.2	1
125	Specific heat of novel ternary superconductors La3Ni4X4 (X=Si and Ge). Physica C: Superconductivity and Its Applications, 2008, 468, 1231-1233.	1.2	1
126	Superconducting properties of noncentrosymmetric Li2(Pt1-xPdx)3B superconductors. Journal of Physics: Conference Series, 2009, 153, 012028.	0.4	1

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127	Magnetic fluctuations under pressure on S-doped FeSe studied via 77Se NMR. AIP Advances, 2018, 8, 101308.	1.3	1
128	Observation of a superconducting state of a topological superconductor candidate, FeTe_{0.6}Se_{0.4}, equipping ferromagnetic electrodes with perpendicular magnetic anisotropy. Applied Physics Express, 2021, 14, 093002.	2.4	1
129	Vortex motion in an organic superconductor Î¹-(BEDT-TTF)2Cu(SCN)2. Synthetic Metals, 1999, 103, 1822-1823.	3.9	0
130	Pinning anomalies in organic layered superconductor Î¹-(BEDT-TTF)2X {X=Cu(NCS)2, Cu[N(CN)2]Br}. Physica C: Superconductivity and Its Applications, 2003, 388-389, 607-608.	1.2	0
131	Resistance oscillation and dynamical instabilities of vortices in Î¹-(BEDT-TTF)2Cu(NCS)2. Synthetic Metals, 2003, 137, 1283-1284.	3.9	0
132	Doping dependence of crossing vortex lattice in Bi2Sr2CaCu2O8+y. Physica C: Superconductivity and Its Applications, 2004, 412-414, 440-443.	1.2	0
133	Double transition in PrOs4Sb12 probed by local magnetization measurements using Hall probe array. Physica C: Superconductivity and Its Applications, 2007, 460-462, 696-697.	1.2	0
134	Antiferromagnetic fluctuations in iron pnictide superconductor BaFe2(As0.67P0.33)2 investigated by 31P NMR. Physica C: Superconductivity and Its Applications, 2010, 470, S420-S421.	1.2	0
135	Crystal Growth and Characterization of FeAs-Based Superconductors. Materials Science Forum, 2010, 638-642, 1412-1415.	0.3	0
136	High-resolution thermal expansion of isovalently substituted BaFe2(As1â^'xPx)2. Journal of Physics: Conference Series, 2012, 391, 012122.	0.4	0
137	Electronic Nematic Transition and Orthorhombic Distortion in Iron-Based Superconductors. Nihon Kessho Gakkaishi, 2013, 55, 128-134.	0.0	0
138	Pressure-induced Lifshitz transition in FeSe$_{0.88}$S$_{0.12}$ probed via ^{77}Se-NMR. Papers in Physics, 0, 11, 110003.	0.2	0