

Shigeru Kasahara

List of Publications by Year in descending order

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Version: 2024-02-01

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
19	Effect of quenched disorder on the quantum spin liquid state of the triangular-lattice antiferromagnet $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle a \langle \text{mml:mo} \rangle ^2 \langle \text{mml:mi} \rangle / \langle \text{mml:mi} \rangle$ Physical Review Research, 2020, 2, .	3.6	52
20	Non-Fermi liquid transport in the vicinity of the nematic quantum critical point of superconducting $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review Research, 2020, 2, .	3.6	25
21	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. Physical Review Research, 2020, 2, .	3.6	3
22	Universal relationship between low-energy antiferromagnetic fluctuations and superconductivity in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{BaFe} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle 2 \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2019, 100, .	12.2	11
23	Diagonal nematicity in the pseudogap phase of $\text{HgBa}_2\text{CuO}_4 + \delta$. Nature Communications, 2019, 10, 3282.	12.8	47
24	Unconventional thermal metallic state of charge-neutral fermions in an insulator. Nature Physics, 2019, 15, 954-959.	16.7	35
25	Photoinduced possible superconducting state with long-lived disproportionate band filling in FeSe. Communications Physics, 2019, 2, .	5.3	28
26	Ultrafast nematic-orbital excitation in FeSe. Nature Communications, 2019, 10, 1946.	12.8	19
27	^{77}Se -NMR Study under Pressure on 12%-S Doped FeSe. Journal of the Physical Society of Japan, 2019, 88, 033703.	1.6	10
28	Quantum Vortex Core and Missing Pseudogap in the Multiband BCS-BEC Crossover Superconductor FeSe. Physical Review Letters, 2019, 122, 077001.	7.8	56
29	Electrical resistivity across a nematic quantum critical point. Nature, 2019, 567, 213-217.	27.8	80
30	Reciprocity between local moments and collective magnetic excitations in the phase diagram of $\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$. Communications Physics, 2019, 2, .	5.3	15
31	Measuring magnetic field texture in correlated electron systems under extreme conditions. Science, 2019, 366, 1355-1359.	12.6	62
32	Evolution of the low-temperature Fermi surface of superconducting $\text{FeSe}_{1-x}\text{S}_x$ across a nematic phase transition. Npj Quantum Materials, 2019, 4, .	5.2	62
33	Coexistence of orbital and quantum critical magnetoresistance in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{FeSe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review Research, 2019, 1, .	3.6	33
34	In Situ STM Observation of Nonmagnetic Impurity Effect in MBE-grown CeCoIn_5 Films. Journal of the Physical Society of Japan, 2018, 87, 034702.	1.6	13
35	Abrupt change of the superconducting gap structure at the nematic critical point in $\text{FeSe}_{1-x}\text{S}_x$. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1227-1231.	7.1	69
36	Superconducting gap anisotropy sensitive to nematic domains in FeSe. Nature Communications, 2018, 9, 282.	12.8	56

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37	Magnetic fluctuations under pressure on S-doped FeSe studied via ^{77}Se NMR. AIP Advances, 2018, 8, 101308.	1.3	1
38	Two distinct superconducting pairing states divided by the nematic end point in $\text{FeSe}_{1-x}\text{S}_x$. Science Advances, 2018, 4, eaar6419.	10.3	74
39	Quasiparticle Excitations in the Superconducting State of FeSe Probed by Thermal Hall Conductivity in the Vicinity of the BCS-BEC Crossover. Journal of the Physical Society of Japan, 2017, 86, 014707.	1.6	23
40	Maximizing T_c by tuning nematicity and magnetism in $\text{FeSe}_{1-x}\text{S}_x$ superconductors. Nature Communications, 2017, 8, 1143.	12.8	88
41	Impact of Disorder on the Superconducting Phase Diagram in $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. Journal of the Physical Society of Japan, 2017, 86, 083706.	1.6	20
42	Weakening of the diamagnetic shielding in $\text{FeSe}_{1-x}\text{S}_x$ at high pressures. Physical Review B, 2017, 96, .	3.2	17
43	Thermodynamic evidence for a nematic phase transition at the onset of the pseudogap in $\text{YBa}_2\text{Cu}_3\text{O}_y$. Nature Physics, 2017, 13, 1074-1078.	16.7	170
44	Nematic quantum critical point without magnetism in $\text{FeSe}_{1-x}\text{S}_x$ superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8139-8143.	7.1	164
45	Giant superconducting fluctuations in the compensated semimetal FeSe at the BCS-BEC crossover. Nature Communications, 2016, 7, 12843.	12.8	100
46	Charge-induced nematicity in FeSe. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9177-9181.	7.1	83
47	Fermi surface reconstruction in FeSe under high pressure. Physical Review B, 2016, 93, .	3.2	35
48	Magnetotransport study of the pressure-induced antiferromagnetic phase in FeSe. Physical Review B, 2016, 93, .	3.2	24
49	Nematic magnetoelastic effect contrasted between $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ and FeSe. Physical Review B, 2016, 93, .	3.2	12
50	Dome-shaped magnetic order competing with high-temperature superconductivity at high pressures in FeSe. Nature Communications, 2016, 7, 12146.	12.8	210
51	Diamagnetic vortex barrier stripes in underdoped $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. Physical Review B, 2016, 93, .	3.2	10
52	Local characterization of superconductivity in $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. Physical Review B, 2016, 93, .	3.2	27
53	Fermi surface of FeTe_2 in the valence-bond state as determined by quantum oscillations. Physical Review B, 2015, 91, .	3.2	5
54	Optical conductivity evidence of clean-limit superconductivity in LiFeAs . Physical Review B, 2015, 91, .	3.2	8

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55	Critical current density, vortex dynamics, and phase diagram of single-crystal FeSe. <i>Physical Review B</i> , 2015, 92, .	3.2	65
56	Dichotomy between the Hole and Electron Behavior in Multiband Superconductor FeSe Probed by Ultrahigh Magnetic Fields. <i>Physical Review Letters</i> , 2015, 115, 027006.	7.8	111
57	Momentum-dependent sign inversion of orbital order in superconducting FeSe. <i>Physical Review B</i> , 2015, 92, .	3.2	113
58	Enhancement of critical current density and mechanism of vortex pinning in H ⁺ -irradiated FeSe single crystal. <i>Applied Physics Express</i> , 2015, 8, 113102.	2.4	23
59	Evidence for Time-Reversal Symmetry Breaking of the Superconducting State near Twin-Boundary Interfaces in FeSe Revealed by Scanning Tunneling Spectroscopy. <i>Physical Review X</i> , 2015, 5, .	8.9	61
60	Structural Origin of the Anomalous Temperature Dependence of the Local Magnetic Moments in the CaFe_2P_2 of Materials. <i>Physical Review Letters</i> , 2015, 114, 047001.	7.8	28
61	Emergence of Orbital Nematicity in the Tetragonal Phase of $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 043705.	1.6	46
62	Pressure-Induced Antiferromagnetic Transition and Phase Diagram in FeSe. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 063701.	1.6	94
63	Anomalous critical fields in quantum critical superconductors. <i>Nature Communications</i> , 2014, 5, 5679.	12.8	41
64	Disorder-induced topological change of the superconducting gap structure in iron pnictides. <i>Nature Communications</i> , 2014, 5, 5657.	12.8	86
65	Anomalous Fermi surface in FeSe seen by Shubnikov-de Haas oscillation measurements. <i>Physical Review B</i> , 2014, 90, .	3.2	155
66	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. <i>Physical Review B</i> , 2014, 90, .	3.2	21
67	Pseudogap formation above the superconducting dome in iron pnictides. <i>Physical Review B</i> , 2014, 89, .	3.2	77
68	Field-induced superconducting phase of FeSe in the BCS-BEC cross-over. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16309-16313.	7.1	312
69	$\text{K} \times \text{FeAs}_2$. <i>Physical Review B</i> , 2014, 89, .	3.2	41
70	Direct observation of lattice symmetry breaking at the hidden-order transition in URu ₂ Si ₂ . <i>Nature Communications</i> , 2014, 5, 4188.	12.8	58
71	Anisotropy of the superconducting gap in the iron-based superconductor $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. <i>Scientific Reports</i> , 2014, 4, 7292.	3.3	25
72	Electron irradiation of Co, Ni, and P-doped BaFe_2As_2 -type iron-based superconductors. <i>Journal of Physics: Conference Series</i> , 2013, 449, 012023.	0.4	24

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73	<p>article Mass Enhancement Close to the Quantum Critical Point in $\text{BaFeAs}_{1-x}\text{M}_{x2}$ Disorder, critical currents, and vortex pinning energies in isovalently substituted $\text{BaFe}_{1-x}\text{M}_x\text{As}_2$</p>	10.5	201

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#	ARTICLE	IF	CITATIONS
91	<p>Dimensional and Three-Dimensional Fermi Surfaces of Superconducting $\text{BaFeAs}_{1-x}\text{S}_x$</p> <p>Nodal gap structure of superconducting $\text{BaFeAs}_{1-x}\text{S}_x$</p>		

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#	ARTICLE	IF	CITATIONS
109	Unconventional Superconductivity and Antiferromagnetic Quantum Critical Behavior in the Isovalent-Doped BaFe_2As_2 . Physical Review Letters, 2010, 105, 267002.	7.8	195
110	Quasiparticle Scattering Induced by Charge Doping of Iron-Pnictide Superconductors Probed by Collective Vortex Pinning. Physical Review Letters, 2010, 105, 267002.	7.8	66
111	Evolution of the Fermi Surface of BaFe_2As_2 . Physical Review Letters, 2010, 105, 267002.	7.8	189
112	Rotationally resolved high-resolution spectrum of the $S_1 \leftarrow S_0$ transition of jet-cooled thioanisole. Physical Chemistry Chemical Physics, 2010, 12, 13243.	2.8	20
113	Microwave Surface-Impedance Measurements of the Magnetic Penetration Depth in Single Crystal $\text{BaKFe}_2\text{As}_4$. Physical Review Letters, 2009, 102, 207001.	7.8	48
114	High pressure synthesis and magnetic properties of CaFe_2O_4 -type NaMn_2O_4 and LiMn_2O_4 . Journal of Physics: Conference Series, 2009, 150, 042210.	0.4	4
115	Superconducting properties of noncentrosymmetric $\text{Li}_2(\text{Pt}_{1-x}\text{Pd}_x)_3\text{B}$ superconductors. Journal of Physics: Conference Series, 2009, 153, 012028.	0.4	1
116	Specific heat of novel ternary superconductors $\text{La}_3\text{Ni}_4\text{X}_4$ (X=Si and Ge). Physica C: Superconductivity and Its Applications, 2008, 468, 1231-1233.	1.2	1
117	Low temperature specific heat of ternary germanide superconductor $\text{La}_3\text{Pd}_4\text{Ge}_4$. Physica B: Condensed Matter, 2008, 403, 1119-1121.	2.7	5
118	Specific heat of superconductors [0, 0.5, and 1]. Physica B: Condensed Matter, 2008, 403, 1078-1080.	2.7	2
119	Low temperature specific heat of superconducting ternary intermetallics $\text{La}_3\text{Pd}_4\text{Ge}_4$, $\text{La}_3\text{Ni}_4\text{Si}_4$, and $\text{La}_3\text{Ni}_4\text{Ge}_4$ with $\text{U}_3\text{Ni}_4\text{Si}_4$ -type structure. Journal of Physics Condensed Matter, 2008, 20, 385204.	1.8	13
120	Superconducting Double Transition in $\text{PrOs}_4\text{Sb}_{12}$ Probed by Local Magnetization Measurements and Magneto-Optical Imaging. Journal of the Physical Society of Japan, 2008, 77, 327-329.	1.6	2
121	Superconductivity in the ternary intermetallics of $\text{La}_3\text{Ni}_4\text{X}_4$ (X = Tj, ET, Qq1). $T_c = 10.784314$ K, $T_c/T_c^0 = 1.8$, $T_c/T_c^0 = 13$.	1.8	13
122	Specific-heat studies of the spin-orbit interaction in noncentrosymmetric $\text{Li}_2\text{Pt}_3\text{B}$. Physical Review B, 2007, 76, .	3.2	54
123	Double transition in $\text{PrOs}_4\text{Sb}_{12}$ probed by local magnetization measurements using Hall probe array. Physica C: Superconductivity and Its Applications, 2007, 460-462, 696-697.	1.2	0
124	Pressure effect and superconducting properties of lithium ternary borides. Physica C: Superconductivity and Its Applications, 2007, 460-462, 89-90.	1.2	1
125	Positive local magnetization in the superconducting state of $\text{PrOs}_4\text{Sb}_{12}$. Physica C: Superconductivity and Its Applications, 2007, 463-465, 71-75.	1.2	3
126	Specific heat of lithium ternary borides under magnetic field. Physica C: Superconductivity and Its Applications, 2007, 463-465, 111-114.	1.2	1

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127	Local Field Measurements in PrOs ₄ Sb ₁₂ with Broken Time-Reversal Symmetry. AIP Conference Proceedings, 2006, , .	0.4	1
128	Comparative study of anisotropic superconductivity in CaAlSi and CaGaSi. Physica C: Superconductivity and Its Applications, 2005, 426-431, 208-212.	1.2	12
129	Peculiar superconductivity in PrOs ₄ Sb ₁₂ probed by local magnetization. Physica C: Superconductivity and Its Applications, 2005, 426-431, 381-385.	1.2	2
130	Local magnetization anomalies and inhomogeneous vortex penetration in the crossing-lattices state of Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physical Review B, 2005, 71, .	3.2	7
131	Doping dependence of crossing vortex lattice in Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physica C: Superconductivity and Its Applications, 2004, 412-414, 440-443.	1.2	0
132	Pinning anomalies in organic layered superconductor $\hat{\Gamma}^{\pm}$ -(BEDT-TTF) ₂ X {X=Cu(NCS) ₂ , Cu[N(CN) ₂]Br}. Physica C: Superconductivity and Its Applications, 2003, 388-389, 607-608.	1.2	0
133	Resistance oscillation and dynamical instabilities of vortices in $\hat{\Gamma}^{\pm}$ -(BEDT-TTF) ₂ Cu(NCS) ₂ . Synthetic Metals, 2003, 137, 1283-1284.	3.9	0
134	Dynamical behavior of vortices introduced into a layered superconductor $\hat{\Gamma}^{\pm}$ -(BEDT-TTF) ₂ Cu(NCS) ₂ . Synthetic Metals, 2001, 120, 937-938.	3.9	1
135	Vortex motion in an organic superconductor $\hat{\Gamma}^{\pm}$ -(BEDT-TTF) ₂ Cu(SCN) ₂ . Synthetic Metals, 1999, 103, 1822-1823.	3.9	0
136	Cryomagnetic system for the acoustic de Haas-van Alphen measurement. Physica B: Condensed Matter, 1993, 186-188, 165-168.	2.7	5
137	Physical Properties of Li ₂ Pd ₃ B and Li ₂ Pt ₃ B Superconductors. Materials Science Forum, 0, 561-565, 2079-2082.	0.3	6
138	Pressure-induced Lifshitz transition in FeSe _{0.88} SS _{0.12} probed via ^{77}Se -NMR. Papers in Physics, 0, 11, 110003.	0.2	0