Shigeru Kasahara

List of Publications by Year
in descending order

138	6,919	50170	60497
papers	citations	46 h-index	81 g-index

139	139	139	4086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intrinsic suppression of the topological thermal Hall effect in an exactly solvable quantum magnet. Physical Review B, 2022, 105, .	1.1	6
2	Charge-neutral fermions and magnetic field-driven instability in insulating YbIr3Si7. Nature Communications, 2022, 13, 394.	5.8	5
3	Transport evidence for decoupled nematic and magnetic criticality in iron chalcogenides. Communications Physics, 2022, 5, .	2.0	3
4	Resistivity and thermal conductivity of an organic insulator Î²â€²â€“EtMe3Sb[Pd(dmit)2]2. Scientific Reports, 2022, 12, .	1.6	5
5	Bond Directional Anapole Order in a Spin-Orbit Coupled Mott Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn>		

#	Article	IF	Citations
19	Effect of quenched disorder on the quantum spin liquid state of the triangular-lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mo>â</mml:mo></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	1.3	52
20	Non-Fermi liquid transport in the vicinity of the nematic quantum critical point of superconducting <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:mrow><mml:mn>1</mml:mn><mml:mo>-</mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math> mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	1.3	25
21	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. Physical Review Research, 2020, 2, .	1.3	3
22	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></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	1.1	3
23	Diagonal nematicity in the pseudogap phase of HgBa2CuO4+Î´. Nature Communications, 2019, 10, 3282.	5.8	47
24	Unconventional thermal metallic state of charge-neutral fermions in an insulator. Nature Physics, 2019, 15, 954-959.	6.5	35
25	Photoinduced possible superconducting state with long-lived disproportionate band filling in FeSe. Communications Physics, 2019, 2, .	2.0	28
26	Ultrafast nematic-orbital excitation in FeSe. Nature Communications, 2019, 10, 1946.	5.8	19
27	77Se-NMR Study under Pressure on 12%-S Doped FeSe. Journal of the Physical Society of Japan, 2019, 88, 033703.	0.7	10
28	Quantum Vortex Core and Missing Pseudogap in the Multiband BCS-BEC Crossover Superconductor FeSe. Physical Review Letters, 2019, 122, 077001.	2.9	56
29	Electrical resistivity across a nematic quantum critical point. Nature, 2019, 567, 213-217.	13.7	80
30	Reciprocity between local moments and collective magnetic excitations in the phase diagram of BaFe2(As1â^'xPx)2. Communications Physics, 2019, 2, .	2.0	15
31	Measuring magnetic field texture in correlated electron systems under extreme conditions. Science, 2019, 366, 1355-1359.	6.0	62
32	Evolution of the low-temperature Fermi surface of superconducting FeSe1â^'xSx across a nematic phase transition. Npj Quantum Materials, 2019, 4, .	1.8	62
33	Coexistence of orbital and quantum critical magnetoresistance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mn> mathvariant="normal">S</mml:mi></mml:mrow><mml:mi>x</mml:mi></mml:msub></mml:math>. Physical Review Research, 2019, 1, .	1.3	33
34	In Situ STM Observation of Nonmagnetic Impurity Effect in MBE-grown CeCoIn₅ Films. Journal of the Physical Society of Japan, 2018, 87, 034702.	0.7	13
35	Abrupt change of the superconducting gap structure at the nematic critical point in FeSe _{1â^'x} S _x. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1227-1231.	3.3	69
36	Superconducting gap anisotropy sensitive to nematic domains in FeSe. Nature Communications, 2018, 9, 282.	5.8	56

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37	Magnetic fluctuations under pressure on S-doped FeSe studied via 77Se NMR. AIP Advances, 2018, 8, 101308.	0.6	1
38	Two distinct superconducting pairing states divided by the nematic end point in FeSe _{1â^' x} S _x. Science Advances, 2018, 4, eaar6419.	4.7	74
39	Quasiparticle Excitations in the Superconducting State of FeSe Probed by Thermal Hall Conductivity in the Vicinity of the BCSâ€“BEC Crossover. Journal of the Physical Society of Japan, 2017, 86, 014707.	0.7	23
40	Maximizing T c by tuning nematicity and magnetism in FeSe1â^'x S x superconductors. Nature Communications, 2017, 8, 1143.	5.8	88
41	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.	0.7	20
42	Weakening of the diamagnetic shielding in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>1</m mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> at high pressures. Physical Review B, 2017, 96, .	1.1	17
43	Thermodynamic evidence for a nematic phase transition at the onset of the pseudogap inÂYBa2Cu3Oy. Nature Physics, 2017, 13, 1074-1078.	6.5	170
44	Nematic quantum critical point without magnetism in FeSe _{1â^' x} S _x superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8139-8143.	3.3	164
45	Giant superconducting fluctuations in the compensated semimetal FeSe at the BCSâ€“BEC crossover. Nature Communications, 2016, 7, 12843.	5.8	100
46	Charge-induced nematicity in FeSe. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9177-9181.	3.3	83
47	Fermi surface reconstruction in FeSe under high pressure. Physical Review B, 2016, 93, .	1.1	35
48	Magnetotransport study of the pressure-induced antiferromagnetic phase in FeSe. Physical Review B, 2016, 93, .	1.1	24
49	Nematic magnetoelastic effect contrasted betweenBa(Fe1â^'xCox)2As2and FeSe. Physical Review B, 2016, 93, .	1.1	12
50	Dome-shaped magnetic order competing with high-temperature superconductivity at high pressures in FeSe. Nature Communications, 2016, 7, 12146.	5.8	210
51	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></	1.1	10
52	Local characterization of superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaF</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi) Tj E Physical Review B, 2016, 94, . 20	1.1	27
53	Fermi surface ofIrTe2in the valence-bond state as determined by quantum oscillations. Physical Review B, 2015, 91, .	1.1	5
54	Optical conductivity evidence of clean-limit superconductivity in LiFeAs. Physical Review B, 2015, 91, .	1.1	8

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55	Critical current density, vortex dynamics, and phase diagram of single-crystal FeSe. Physical Review B, 2015, 92, .	1.1	65
56	Dichotomy between the Hole and Electron Behavior in Multiband Superconductor FeSe Probed by Ultrahigh Magnetic Fields. Physical Review Letters, 2015, 115, 027006.	2.9	111
57	Momentum-dependent sign inversion of orbital order in superconducting FeSe. Physical Review B, 2015, 92, .	1.1	113
58	Enhancement of critical current density and mechanism of vortex pinning in H⁺-irradiated FeSe single crystal. Applied Physics Express, 2015, 8, 113102.	1.1	23
59	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, .	2.8	61
60	Structural Origin of the Anomalous Temperature Dependence of the Local Magnetic Moments in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> of Materials. Physical Review Letters, 2015, 114, 047001.	2.9	28
61	Emergence of Orbital Nematicity in the Tetragonal Phase of BaFe₂(As_{1â^'}_xP_x)₂. Journal of the Physical Society of Japan, 2015, 84, 043705.	0.7	46
62	Pressure-Induced Antiferromagnetic Transition and Phase Diagram in FeSe. Journal of the Physical Society of Japan, 2015, 84, 063701.	0.7	94
63	Anomalous critical fields in quantum critical superconductors. Nature Communications, 2014, 5, 5679.	5.8	41
64	Disorder-induced topological change of the superconducting gap structure in iron pnictides. Nature Communications, 2014, 5, 5657.	5.8	86
65	Anomalous Fermi surface in FeSe seen by Shubnikovâ€“de Haas oscillation measurements. Physical Review B, 2014, 90, .	1.1	155
66	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	1.1	21
67	Pseudogap formation above the superconducting dome in iron pnictides. Physical Review B, 2014, 89, .	1.1	77
68	Field-induced superconducting phase of FeSe in the BCS-BEC cross-over. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16309-16313.	3.3	312
69	Duplicate: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>	1.1	41
70	Direct observation of lattice symmetry breaking at the hidden-order transition in URu2Si2. Nature Communications, 2014, 5, 4188.	5.8	58
71	Anisotropy of the superconducting gap in the iron-based superconductor BaFe2(As1-xPx)2. Scientific Reports, 2014, 4, 7292.	1.6	25
72	Electron irradiation of Co, Ni, and P-doped BaFe₂As₂â€“type iron-based superconductors. Journal of Physics: Conference Series, 2013, 449, 012023.	0.3	24

#	Article	IF	Citations
73	Disorder, critical currents, and vortex pinning energies in isovalently substituted BaFe	2.9	105
74			

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91	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	2.9	56
92	Nodal gap structure of superconducting BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow 10		

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109	Isovalent-Doped<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^	2.9	195
110	Quasiparticle Scattering Induced by Charge Doping of Iron-Pnictide Superconductors Probed by Collective Vortex Pinning. Physical Review Letters, 2010, 105, 267002.	2.9	66
111	<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^	2.9	189
112	Rotationally resolved high-resolution spectrum of the S1â€“S0 transition of jet-cooled thioanisole. Physical Chemistry Chemical Physics, 2010, 12, 13243.	1.3	20
113	Crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^	2.9	143
114	High pressure synthesis and magnetic properties of CaFe₂O₄-type NaMn₂O₄and LiMn₂O₄. Journal of Physics: Conference Series, 2009, 150, 042210.	0.3	4
115	Superconducting properties of noncentrosymmetric Li2(Pt1-xPdx)3B superconductors. Journal of Physics: Conference Series, 2009, 153, 012028.	0.3	1
116	Specific heat of novel ternary superconductors La3Ni4X4 (X=Si and Ge). Physica C: Superconductivity and Its Applications, 2008, 468, 1231-1233.	0.6	1
117	Low temperature specific heat of ternary germanide superconductor La3Pd4Ge4. Physica B: Condensed Matter, 2008, 403, 1119-1121.	1.3	5
118	Specific heat of superconductors [, 0.5, and 1]. Physica B: Condensed Matter, 2008, 403, 1078-1080.	1.3	2
119	Low temperature specific heat of superconducting ternary intermetallics La3Pd4Ge4, La3Ni4Si4, and La3Ni4Ge4with U3Ni4Si4-type structure. Journal of Physics Condensed Matter, 2008, 20, 385204.	0.7	13
120	Superconducting Double Transition in PrOs4Sb12Probed by Local Magnetization Measurements and Magneto-Optical Imaging. Journal of the Physical Society of Japan, 2008, 77, 327-329.	0.7	2
121	Superconductivity in the ternary intermetallics of La₃Ni₄X₄(X =) Tj ETQq1 1 0.784314 rgBT /O	0.7	13
122	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>	1.1	54
123	Physical Review B, 2007, 76, . Double transition in PrOs4Sb12 probed by local magnetization measurements using Hall probe array. Physica C: Superconductivity and Its Applications, 2007, 460-462, 696-697.	0.6	0
124	Pressure effect and superconducting properties of lithium ternary borides. Physica C: Superconductivity and Its Applications, 2007, 460-462, 89-90.	0.6	1
125	Positive local magnetization in the superconducting state of PrOs4Sb12. Physica C: Superconductivity and Its Applications, 2007, 463-465, 71-75.	0.6	3
126	Specific heat of lithium ternary borides under magnetic field. Physica C: Superconductivity and Its Applications, 2007, 463-465, 111-114.	0.6	1

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127	Local Field Measurements in PrOs4Sb12 with Broken Time-Reversal Symmetry. AIP Conference Proceedings, 2006, , .	0.3	1
128	Comparative study of anisotropic superconductivity in CaAlSi and CaGaSi. Physica C: Superconductivity and Its Applications, 2005, 426-431, 208-212.	0.6	12
129	Peculiar superconductivity in PrOs4Sb12 probed by local magnetization. Physica C: Superconductivity and Its Applications, 2005, 426-431, 381-385.	0.6	2
130	Local magnetization anomalies and inhomogeneous vortex penetration in the crossing-lattices state ofBi2Sr2CaCu2O8+y. Physical Review B, 2005, 71, .	1.1	7
131	Doping dependence of crossing vortex lattice in Bi2Sr2CaCu2O8+y. Physica C: Superconductivity and Its Applications, 2004, 412-414, 440-443.	0.6	0
132	Pinning anomalies in organic layered superconductor Î²-(BEDT-TTF)2X {X=Cu(NCS)2, Cu[N(CN)2]Br}. Physica C: Superconductivity and Its Applications, 2003, 388-389, 607-608.	0.6	0
133	Resistance oscillation and dynamical instabilities of vortices in Î²-(BEDT-TTF)2Cu(NCS)2. Synthetic Metals, 2003, 137, 1283-1284.	2.1	0
134	Dynamical behavior of vortices introduced into a layered superconductor Î²-(BEDT-TTF)2Cu(NCS) 2. Synthetic Metals, 2001, 120, 937-938.	2.1	1
135	Vortex motion in an organic superconductor Î²-(BEDT-TTF)2Cu(SCN)2. Synthetic Metals, 1999, 103, 1822-1823.	2.1	0
136	Cryomagnetic system for the acoustic de Haas-van Alphen measurement. Physica B: Condensed Matter, 1993, 186-188, 165-168.	1.3	5
137	Physical Properties of Li₂Pd₃B and Li₂Pt₃B Superconductors. Materials Science Forum, 0, 561-565, 2079-2082.	0.3	6
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