Itsuhiro Kakeya

List of Publications by Year
in descending order

100 papers	1,375 citations	471061 17 h-index	395343 33 g-index
100 all docs	100 docs citations	100 times ranked	689 citing authors

#	Article	IF	Citations
1	Direct observation of tetrahertz electromagnetic waves emitted from intrinsic Josephson junctions in single crystalline Bi2Sr2CaCu2O8+. Physica C: Superconductivity and Its Applications, 2008, 468, 634-639.	0.6	148
2	Characteristics of terahertz radiation emitted from the intrinsic Josephson junctions in high-Tc superconductor Bi2Sr2CaCu2O8+Î´. Applied Physics Letters, 2009, 95, .	1.5	108
3	Fabrication of Highly Crystalline Corundum-Structured Î±-(Ga_{1-x}Fe_x)₂O₃Alloy Thin Films on Sapphire Substrates. Applied Physics Express, 0, 2, 075501.	1.1	83
4	Terahertz-wave emission from Bi2212 intrinsic Josephson junctions: a review on recent progress. Superconductor Science and Technology, 2016, 29, 073001.	1.8	76
5	Effect of thermal inhomogeneity for terahertz radiation from intrinsic Josephson junction stacks of Bi2Sr2CaCu2O8+Î´. Applied Physics Letters, 2012, 100, .	1.5	73
6	Band gap and function engineering for novel functional alloy semiconductors: Bloomed as magnetic properties at room temperature with Î±-(GaFe)2O3. Journal of Applied Physics, 2013, 113, .	1.1	62
7	Longitudinal Josephson-plasma excitation inBi2Sr2CaCu2O8+Î´:Direct observation of the Nambu-Goldstone mode in a superconductor. Physical Review B, 1997, 56, 5617-5621.	1.1	53
8	Mode separation of the Josephson plasma inBi2Sr2CaCu2O8+Î´. Physical Review B, 1998, 57, 3108-3115.	1.1	47
9	Dynamic Control of Temperature Distributions in Stacks of Intrinsic Josephson Junctions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>mathvari. Physical Review Applied, 2014, 2, .	1.5	47
10	Dynamical properties of Josephson vortices in mesoscopic intrinsic Josephson junctions in single crystalline Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2006, 437-438, 111-117.	0.6	40
11	Association of Space Flight With Problems of the Brain and Eyes. JAMA Ophthalmology, 2018, 136, 1075.	1.4	37
12	Ambient-pressure synthesis of single-crystalMgB2and their superconducting anisotropy. Physical Review B, 2003, 67, .	1.1	33
13	Epitaxial growth of ferromagnetic Fe3N films on Si(111) substrates by molecular beam epitaxy. Journal of Crystal Growth, 2007, 301-302, 597-601.	0.7	32
14	Monolithic Superconducting Emitter of Tunable Circularly Polarized Terahertz Radiation. Physical Review Applied, 2017, 8, .	1.5	27
15	Atomic ordering in FeSr2LnCu2O6+Î´ system (Ln=Nd, Y and Er). Physica C: Superconductivity and Its Applications, 2003, 400, 43-52.	0.6	25
16	Ferromagnetism and superconductivity in RuSr2RCu2O8 (R=Sm, Eu, Gd). Physica C: Superconductivity and Its Applications, 2001, 357-360, 406-409.	0.6	24
17	Cavity mode identification for coherent terahertz emission from high-Tc superconductors. Optics Express, 2016, 24, 4591.	1.7	24
18	Magnetic and transport properties of EuTiO₃thin films doped with Nb. Japanese Journal of Applied Physics, 2014, 53, 05FJ07.	0.8	19

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19	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. Physical Review Applied, 2020, 13, .	1.5	18
20	Redistribution of Fe ion and superconductivity of FeSr2YCu2O6+y system. Physica C: Superconductivity and Its Applications, 2004, 417, 17-24.	0.6	17
21	Circularly polarized terahertz radiation monolithically generated by cylindrical mesas of intrinsic Josephson junctions. Applied Physics Letters, 2018, 113, .	1.5	17
22	Josephson plasma excitation and vortex oscillation mode in Josephson vortex state. Physica C: Superconductivity and Its Applications, 2002, 378-381, 437-442.	0.6	15
23	Terahertz emission from a stack of intrinsic Josephson junctions in Pb-doped Bi₂Sr₂CaCu₂O_{8+Î´}. Superconductor Science and Technology, 2015, 28, 105015.	1.8	15
24	Two phase collective modes in a Josephson vortex lattice in the intrinsic Josephson junctionBi2Sr2CaCu2O8+Î´. Physical Review B, 2005, 72, .	1.1	14
25	Vortex Imaging in Microscopic Superconductors With a Scanning SQUID Microscope. IEEE Transactions on Applied Superconductivity, 2005, 15, 696-698.	1.1	14
26	Increase of superfluid density with growth of quasiparticle density of states probed by intrinsic tunneling spectroscopy in Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow></mml:mrow></mml:msub></mml:math>Pb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.9</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml	1.1	14
27	Enhanced Macroscopic Quantum Tunneling in Capacitively Coupled BiPb2201 Single-Layered Intrinsic Josephson Junctions. Journal of the Physical Society of Japan, 2015, 84, 013704.	0.7	14
28	Temperature dependence of terahertz emission by an asymmetric intrinsic Josephson junction device. Journal of Applied Physics, 2015, 117, .	1.1	14
29	Quantum oscillation of the c-axis resistivity due to entrance of pancake vortices into micro-fabricated Bi2Sr2CaCu2O8+Î´ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2008, 468, 669-673.	0.6	11
30	Scaling behavior of the crossover to short-stack regimes of Josephson vortex lattices in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2009, 79, .	1.1	11
31	Switching current distributions and macroscopic quantum tunneling in over-doped BSCCO mesas with nanometer thickness. Superconductor Science and Technology, 2009, 22, 114014.	1.8	11
32	Observation of the Nambu-Goldstone mode in the high-temperature superconductor Bi 2 Sr 2 CaCu 2 O 8 + Î´. Europhysics Letters, 1998, 42, 203-208.	0.7	10
33	High Field Magnetization in DyCu. Journal of the Physical Society of Japan, 1999, 68, 1025-1030.	0.7	10
34	Superconducting plasma excitation at microwave frequencies in parallel magnetic fields in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2001, 362, 71-77.	0.6	10
35	Flux quantization in a superconducting microdisk. Physica C: Superconductivity and Its Applications, 2003, 388-389, 719-720.	0.6	10
36	Epitaxial Growth and Magnetic Properties of Ferromagnetic Fe3N on Si(111) by Molecular Beam Epitaxy Using AlN/3C-SiC Intermediate Layers. Japanese Journal of Applied Physics, 2006, 45, L705-L707.	0.8	10

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37	Normal-state magnetic susceptibilities in Bi2Sr2Ca(Cu1â^'xNix)2O8+Î´ single crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 799-800.	0.6	10
38	Temperature and current dependencies of terahertz emission from stacks of intrinsic Josephson junctions with thin electrodes revealed by a high-resolution FT-IR spectrometer. Physica C: Superconductivity and Its Applications, 2013, 491, 11-15.	0.6	10
39	Systematic Enhancements of Switching Rate in Intrinsic Josephson Junctions. Journal of Physics: Conference Series, 2014, 507, 012038.	0.3	10
40	Periodic and non-periodic current steps in Iâ€“V characteristics in mesoscopic intrinsic Josephson junctions of Bi2212. Physica C: Superconductivity and Its Applications, 2006, 437-438, 118-121.	0.6	9
41	Fluctuating pancake vortices revealed by dissipation of the Josephson vortex lattice. Physical Review B, 2011, 83, .	1.1	9
42	Magnetic and electrical properties of LuFe₂O₄ epitaxial thin films with a self-assembled interface structure. CrystEngComm, 2020, 22, 1096-1105.	1.3	9
43	Phase coherence and Josephson plasma in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 1997, 293, 130-135.	0.6	8
44	Engineering and characterization of a packaged high-T_csuperconducting terahertz source module. Superconductor Science and Technology, 2017, 30, 064001.	1.8	8
45	Josephson plasma excitation in high-Tc superconductors with finite dimensions. Physica C: Superconductivity and Its Applications, 1997, 293, 64-67.	0.6	7
46	Small-number arrays of intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2008, 468, 674-678.	0.6	7
47	Self-heating in a small mesa of BSCCO intrinsic Josephson junctions at very low temperatures. Journal of Physics: Conference Series, 2010, 234, 042035.	0.3	6
48	Spontaneous Frequency Shift and Phase Delay of Coupled Terahertz Radiation Mediated by the Josephson Plasmon in a Cuprate Superconductor. Physical Review Applied, 2022, 17, .	1.5	6
49	Longitudinal Josephson plasma: A new aspect of superconductivity. Physica B: Condensed Matter, 1997, 239, 123-127.	1.3	5
50	Polarization Enhancement of Terahertz Radiation Generated by Intrinsic Josephson Junctions in a Truncated Edge Square Bi2Sr2CaCu2O8+Î´ Mesa. Physics Procedia, 2016, 81, 133-136.	1.2	5
51	Negative correlation between enhanced crossover temperature and fluctuation-free critical current of the second switch in Bi₂Sr₂CaCu₂O${}_{8+delta }$ intrinsic Josephson junction. Superconductor Science and Technology, 2017, 30, 105001.	1.8	5
52	THz emission from a Bi₂Sr₂CaCu₂O_{8+Î´} cross-whisker junction. Applied Physics Express, 2021, 14, 033003.	1.1	5
53	ESR study on Î±-(BEDT-TTF)2KHg(SCN)4 single crystal. Synthetic Metals, 1997, 86, 2015-2016.	2.1	4
54	Vortex imaging of magnetic superconductor HoNi2B2C by scanning SQUID microscopy. Physica C: Superconductivity and Its Applications, 2002, 378-381, 420-423.	0.6	4

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55	Vortex states in mesoscopic single crystals Bi2Sr2CaCu2O8+Î´ in high magnetic fields. Physica C: Superconductivity and Its Applications, 2009, 469, 1119-1121.	0.6	4
56	Intrinsic tunneling spectroscopy for Bi2â^'xPbxSr2CaCu2O8+Î´ of nm-thickness mesa structure. Physica C: Superconductivity and Its Applications, 2011, 471, 754-757.	0.6	4
57	Epitaxial growth and superconducting anisotropy ofPbSr2Y1â^'xCaxCu2O7+Î´thin films. Physical Review B, 2014, 89, .	1.1	4
58	Role of the inner copper oxide plane in interlayer Josephson effects in multilayered cuprate superconductors. Physical Review B, 2019, 100, .	1.1	4
59	ESR and magneto-optical measurements in EuTe films and thin films of EuTe/Fe. Physica B: Condensed Matter, 1996, 216, 347-350.	1.3	3
60	TEMPERATURE DEPENDENCE OF JOSEPHSON PLASMA MODES IN Bi2Sr2CaCu2O8+Î´ NEAR Tc. International Journal of Modern Physics B, 2000, 14, 547-554.	1.0	3
61	Intrinsic Tunneling Spectroscopy for Pb-Substituted Bi2212 in the Underdoped Region. Journal of Physics: Conference Series, 2012, 400, 022043.	0.3	3
62	Thermal imaging of Bi2212 THz oscillator. Physica C: Superconductivity and Its Applications, 2015, 518, 77-80.	0.6	3
63	Effect of 1.5 MeV Proton Irradiation on Superconductivity in FeSe0.5Te0.5 Thin Films. Quantum Beam Science, 2021, 5, 18.	0.6	3
64	Vortex crossing lattice phase transition in single crystalline Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2004, 412-414, 478-481.	0.6	2
65	Physical properties and high-temperature phase analyses in magnetic high- superconductor. Physica B: Condensed Matter, 2005, 359-361, 433-435.	1.3	2
66	Simultaneous Observation of Three Types of Terahertz Radiation from Bi2Sr2CaCu2O8 + Î1ntrinsic Josephson Junctions. Journal of Physics: Conference Series, 2012, 400, 052027.	0.3	2
67	Origin of positive out-of-plane magnetoconductivity in overdoped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Pb</mml:mi><mml:mrow><mml:mn>0.4</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">CaCu</mml:mi><mml:mrow><mml:mn>1.96</mml:mn></mml:mrow></mml:msub>	1.1	2
68	Dynamics of First and Second Switches in Bi$_{2}$ Sr$_{2}$CaCu $_{2}$O$_{8+delta }$ Intrinsic Josephson Junction Stacks Measured by Specifically Designed Electronics. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	2
69	Lamina Cribrosa Pore Diameter and Spaceflight-Associated Neuro-ocular Syndrome. JAMA Ophthalmology, 2019, 137, 1330.	1.4	2
70	Sample size dependence of the Josephson plasma resonance in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1599-1600.	0.6	1
71	Josephson plasma resonance in Bi2Sr2CaCu2O8+Î´ under parallel magnetic field. Journal of Low Temperature Physics, 1999, 117, 611-615.	0.6	1
72	Systematic study of Josephson plasma resonance in Bi2Sr2CaCu2O8+Î´ with columnar defects. Physica B: Condensed Matter, 2000, 284-288, 881-882.	1.3	1

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73	Josephson plasma resonance in solid and glass phases of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2001, 362, 234-238.	0.6	1
74	Fiske Resonance-like Behaviors in Intrinsic Junctions of Bi2Sr2CaCu2O8+Î´. AIP Conference Proceedings, 2006, , .	0.3	1
75	Proximity Effect in BSCCO Intrinsic Josephson Junctions Contacted with a Normal Metal Layer. Physics Procedia, 2012, 36, 205-210.	1.2	1
76	Growth and superconducting properties of Pb_{1â^'y}Bi_ySr₂Y_{1â^'x}Ca_xCu₂O films. Journal of Physics: Conference Series, 2014, 507, 012025.	0.3	1
77	Intrinsic Josephson properties in Pb_{1-y}Sr₂Y_{1-x}Ca_xCu_{2+y}O_{7+Î´} films. Journal of Physics: Conference Series, 2014, 568, 022025.	0.3	1
78	90 K superconductivity of clean Pb1212 epitaxial films. Superconductor Science and Technology, 2016, 29, 085007.	1.8	1
79	Carrier doping into a superconducting BaPb_{0.7}Bi_{0.3}O_{3â^'Î´} epitaxial film using an electric double-layer transistor structure. Superconductor Science and Technology, 2018, 31, 065004.	1.8	1
80	Brain Upward Shift and Spaceflight-Associated Neuro-Ocular Syndromeâ€"Reply. JAMA Ophthalmology, 2019, 137, 586.	1.4	1
81	Interlayer Transport and Josephson Coupling in a 1212-type Cuprate Superconductor with a (Pb,Cu)â€"O Barrier Layer. Journal of the Physical Society of Japan, 2021, 90, 024702.	0.7	1
82	Direct observation of the Nambu-Goldstone(NG) mode in Bi2Sr2CaCu2O8 by means of microwave exitation technique. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2423-2424.	0.6	0
83	Josephson plasma resonance in Bi2Sr2CaCu2O8+Î´ in vortex liquid and solid states. Physica B: Condensed Matter, 2000, 284-288, 729-730.	1.3	0
84	Josephson plasma mode in fields parallel to layers of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1173-1174.	0.6	0
85	Josephson plasma resonance in Josephson vortex states. Physica C: Superconductivity and Its Applications, 2001, 357-360, 611-613.	0.6	0
86	Josephson vortex flow and pinning probed by c-axis transport measurements. Physica C: Superconductivity and Its Applications, 2003, 388-389, 707-708.	0.6	0
87	Peak Effect as Precursor to Lock-in State in Bi2Sr2CaCu2O8+Î´ Single Crystal. AIP Conference Proceedings, 2006, , .	0.3	0
88	Phase Transition from Crossing Lattice to Tilted Lattice Near ab-plane in Bi2Sr2CaCu2O8+Î´ Single Crystal. AIP Conference Proceedings, 2006, , .	0.3	0
89	Termination of Softening of Josephson Plasma Mode in Bi2Sr2CaCu2O8+Î´ in the Vicinity of Tc. AIP Conference Proceedings, 2006, , .	0.3	0
90	A trial usage of microprobes for improvement of a scanning SQUID microscope. Physica C: Superconductivity and Its Applications, 2007, 463-465, 294-296.	0.6	0

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91	Vortex phases in magnetic fields near ab-plane in Bi2Sr2CaCu2O8+ single crystal. Physica C: Superconductivity and Its Applications, 2010, 470, S790-S792.	0.6	0
92	Overdoped High Current Density Bi _{2â€“ x} Pb _x Sr ₂ CaCu ₂ O _{8+Î´} Intrinsic Josephson Junction Mesas and Their Switching Current Distribu. Chinese Physics Letters, 2010, 27, 087406.	1.3	0
93	Macroscopic quantum tunneling in BiPb2201. Journal of Physics: Conference Series, 2014, 568, 022033.	0.3	0
94	Imaging of local temperature distributions in mesas of high-T_csuperconducting terahertz sources. Journal of Physics: Conference Series, 2014, 568, 022048.	0.3	0
95	Tilted vortex lattice in irradiate Bi₂Sr₂CaCu₂O_{8+Î´}single crystals. Journal of Physics: Conference Series, 2010, 150, 052207	0.3	0
96	Terahertz conductivity in the underdoped Pb<mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.e. Physica C: Su	0.6	0
97	Monolithic terahertz emitter of high-temperature superconductors. , 2019, , .		0
98	Stokes-parameter analysis of circular polarized terahertz waves from superconducting Josephson plasma emitter. , 2019, , .		0
99	Mutual Synchronization of Terahertz Emissions from Multiple Intrinsic Josephson Junction Mesas. , 2020, , .		0
100	In-plane Field Contribution for Josephson Plasma Mode in Under-doped Bi2Sr2CaCu2O8+Î´. , 2000, , 401-403.		0