

# Itsuhiro Takeya

## List of Publications by Year in descending order

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471061

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Frequency Shift and Phase Delay of Coupled Terahertz Radiation Mediated by the Josephson Plasmon in a Cuprate Superconductor. <i>Physical Review Applied</i> , 2022, 17, .	1.5	6
2	Interlayer Transport and Josephson Coupling in a 1212-type Cuprate Superconductor with a (Pb,Cu)â€œO Barrier Layer. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 024702.	0.7	1
3	THz emission from a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+Î´</sub> cross-whisker junction. <i>Applied Physics Express</i> , 2021, 14, 033003.	1.1	5
4	Effect of 1.5 MeV Proton Irradiation on Superconductivity in FeSe <sub>0.5</sub> Te <sub>0.5</sub> Thin Films. <i>Quantum Beam Science</i> , 2021, 5, 18.	0.6	3
5	Magnetic and electrical properties of LuFe <sub>2</sub> O <sub>4</sub> epitaxial thin films with a self-assembled interface structure. <i>CrystEngComm</i> , 2020, 22, 1096-1105.	1.3	9
6	Mutual Synchronization of Terahertz Emissions from Multiple Intrinsic Josephson Junction Mesas. , 2020, , .		0
7	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. <i>Physical Review Applied</i> , 2020, 13, .	1.5	18
8	Role of the inner copper oxide plane in interlayer Josephson effects in multilayered cuprate superconductors. <i>Physical Review B</i> , 2019, 100, .	1.1	4
9	Lamina Cribrosa Pore Diameter and Spaceflight-Associated Neuro-ocular Syndrome. <i>JAMA Ophthalmology</i> , 2019, 137, 1330.	1.4	2
10	Brain Upward Shift and Spaceflight-Associated Neuro-Ocular Syndromeâ€”Reply. <i>JAMA Ophthalmology</i> , 2019, 137, 586.	1.4	1
11	Monolithic terahertz emitter of high-temperature superconductors. , 2019, , .		0
12	Stokes-parameter analysis of circular polarized terahertz waves from superconducting Josephson plasma emitter. , 2019, , .		0
13	Carrier doping into a superconducting BaPb <sub>0.7</sub> Bi <sub>0.3</sub> O <sub>3+Î´</sub> epitaxial film using an electric double-layer transistor structure. <i>Superconductor Science and Technology</i> , 2018, 31, 065004.	1.8	1
14	Circularly polarized terahertz radiation monolithically generated by cylindrical mesas of intrinsic Josephson junctions. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	17
15	Association of Space Flight With Problems of the Brain and Eyes. <i>JAMA Ophthalmology</i> , 2018, 136, 1075.	1.4	37
16	Dynamics of First and Second Switches in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+Î´</sub> Intrinsic Josephson Junction Stacks Measured by Specifically Designed Electronics. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	2
17	Engineering and characterization of a packaged high- <i>T<sub>c</sub></i> superconducting terahertz source module. <i>Superconductor Science and Technology</i> , 2017, 30, 064001.	1.8	8
18	Monolithic Superconducting Emitter of Tunable Circularly Polarized Terahertz Radiation. <i>Physical Review Applied</i> , 2017, 8, .	1.5	27

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19	Negative correlation between enhanced crossover temperature and fluctuation-free critical current of the second switch in Bi <sub>2</sub> Sr <sub>2</sub> CaCuO <sub>8+δ</sub> intrinsic Josephson junction. Superconductor Science and Technology, 2017, 30, 105001.	1.8	5
20	Tilted vortex lattice in irradiate Bi <sub>2</sub> Sr <sub>2</sub> CaCuO <sub>8+δ</sub> single crystals. Journal of Physics: Conference Series, 2016, 667, 012007.	0.3	0
21	Conductivity in overdoped Bi <sub>2</sub> Pb <sub>0.4</sub> Sr <sub>2</sub> CaCu <sub>1.96</sub> O <sub>8</sub> thin films. Superconductor Science and Technology, 2016, 29, 085007.	1.8	1
22	90 K superconductivity of clean Pb1212 epitaxial films. Superconductor Science and Technology, 2016, 29, 085007.	1.8	1
23	Terahertz-wave emission from Bi <sub>2</sub> Sr <sub>2</sub> CaCuO <sub>8+δ</sub> single crystals. Journal of Physics: Conference Series, 2014, 507, 012038.	0.6	0
24	Terahertz-wave emission from Bi2212 intrinsic Josephson junctions: a review on recent progress. Superconductor Science and Technology, 2016, 29, 073001.	1.8	76
25	Cavity mode identification for coherent terahertz emission from high-Tc superconductors. Optics Express, 2016, 24, 4591.	1.7	24
26	Polarization Enhancement of Terahertz Radiation Generated by Intrinsic Josephson Junctions in a Truncated Edge Square Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> Mesa. Physics Procedia, 2016, 81, 133-136.	1.2	5
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	Terahertz emission from a stack of intrinsic Josephson junctions in Pb-doped Bi <sub>2</sub> Sr <sub>2</sub> CaCuO <sub>8+δ</sub> . Superconductor Science and Technology, 2015, 28, 105015.	1.8	15
29	Temperature dependence of terahertz emission by an asymmetric intrinsic Josephson junction device. Journal of Applied Physics, 2015, 117, .	1.1	14
30	Thermal imaging of Bi2212 THz oscillator. Physica C: Superconductivity and Its Applications, 2015, 518, 77-80.	0.6	3
31	Epitaxial growth and superconducting anisotropy of PbSr <sub>2</sub> CaCu <sub>2</sub> O <sub>7+δ</sub> thin films. Physical Review B, 2014, 89, .	1.1	4
32	Dynamic Control of Temperature Distributions in Stacks of Intrinsic Josephson Junctions in Bi <sub>2</sub> Sr <sub>2</sub> CaCuO <sub>8+δ</sub> . Physical Review Applied, 2014, 2, .	1.5	47
33	Magnetic and transport properties of EuTiO <sub>3</sub> thin films doped with Nb. Japanese Journal of Applied Physics, 2014, 53, 05FJ07.	0.8	19
34	Systematic Enhancements of Switching Rate in Intrinsic Josephson Junctions. Journal of Physics: Conference Series, 2014, 507, 012038.	0.3	10
35	Growth and superconducting properties of Pb <sub>1-x</sub> Bi <sub>x</sub> Sr <sub>2</sub> Y <sub>1-x</sub> Ca <sub>x</sub> Cu <sub>2</sub> O <sub>7+δ</sub> thin films. Journal of Physics: Conference Series, 2014, 507, 012025.	0.3	0
36	Macroscopic quantum tunneling in BiPb2201. Journal of Physics: Conference Series, 2014, 568, 022033.	0.3	0

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37	Intrinsic Josephson properties in $\text{Pb}_{1-y}\text{Sr}_2\text{Y}_{1-x}\text{Ca}_x\text{Cu}_{2+y}\text{O}_{7+\delta}$ films. Journal of Physics: Conference Series, 2014, 568, 022025.		
38	Imaging of local temperature distributions in mesas of high- $T_c$ superconducting terahertz sources. Journal of Physics: Conference Series, 2014, 568, 022048.	0.3	0
39	Band gap and function engineering for novel functional alloy semiconductors: Bloomed as magnetic properties at room temperature with $\text{I}^\pm(\text{GaFe})_2\text{O}_3$ . Journal of Applied Physics, 2013, 113, .	1.1	62
40	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: density of states probed by intrinsic tunneling spectroscopy in $\text{Bi}_{1.9}\text{Pb}_{0.1}\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$	0.6	10
41	Simultaneous Observation of Three Types of Terahertz Radiation from $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8 + \delta$ Intrinsic Josephson Junctions. Journal of Physics: Conference Series, 2012, 400, 052027.	1.1	14
42	Proximity Effect in BSCCO Intrinsic Josephson Junctions Contacted with a Normal Metal Layer. Physics Procedia, 2012, 36, 205-210.	0.3	2
43	Effect of thermal inhomogeneity for terahertz radiation from intrinsic Josephson junction stacks of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Applied Physics Letters, 2012, 100, .	1.2	1
44	Intrinsic Tunneling Spectroscopy for Pb-Substituted $\text{Bi}_{2212}$ in the Underdoped Region. Journal of Physics: Conference Series, 2012, 400, 022043.	1.5	73
45	Intrinsic tunneling spectroscopy for $\text{Bi}_2\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ of nm-thickness mesa structure. Physica C: Superconductivity and Its Applications, 2011, 471, 754-757.	0.3	3
46	Fluctuating pancake vortices revealed by dissipation of the Josephson vortex lattice. Physical Review B, 2011, 83, .	0.6	4
47	Self-heating in a small mesa of BSCCO intrinsic Josephson junctions at very low temperatures. Journal of Physics: Conference Series, 2010, 234, 042035.	1.1	9
48	Vortex phases in magnetic fields near ab-plane in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystal. Physica C: Superconductivity and Its Applications, 2010, 470, S790-S792.	0.3	6
49	Overdoped High Current Density $\text{Bi}_{1-x}\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Intrinsic Josephson Junction Mesas and Their Switching Current Distribu. Chinese Physics Letters, 2010, 27, 087406.	0.6	0
50	Characteristics of terahertz radiation emitted from the intrinsic Josephson junctions in high- $T_c$ superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Applied Physics Letters, 2009, 95, .	1.3	0
51	Scaling behavior of the crossover to short-stack regimes of Josephson vortex lattices in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physical Review B, 2009, 79, .	1.5	108
52	Switching current distributions and macroscopic quantum tunneling in over-doped BSCCO mesas with nanometer thickness. Superconductor Science and Technology, 2009, 22, 114014.	1.1	11
53	Vortex states in mesoscopic single crystals $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ in high magnetic fields. Physica C: Superconductivity and Its Applications, 2009, 469, 1119-1121.	1.8	11
54		0.6	4

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55	Small-number arrays of intrinsic Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 674-678.	0.6	7
56	Quantum oscillation of the c-axis resistivity due to entrance of pancake vortices into micro-fabricated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> intrinsic Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 669-673.	0.6	11
57	Direct observation of tetrahertz electromagnetic waves emitted from intrinsic Josephson junctions in single crystalline Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 634-639.	0.6	148
58	A trial usage of microprobes for improvement of a scanning SQUID microscope. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 294-296.	0.6	0
59	Epitaxial growth of ferromagnetic Fe <sub>3</sub> N films on Si(111) substrates by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2007, 301-302, 597-601.	0.7	32
60	Normal-state magnetic susceptibilities in Bi <sub>2</sub> Sr <sub>2</sub> Ca(Cu <sub>1-x</sub> Ni <sub>x</sub> ) <sub>2</sub> O <sub>8+δ</sub> single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 799-800.	0.6	10
61	Fiske Resonance-like Behaviors in Intrinsic Junctions of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
62	Peak Effect as Precursor to Lock-in State in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> Single Crystal. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
63	Phase Transition from Crossing Lattice to Tilted Lattice Near ab-plane in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> Single Crystal. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
64	Termination of Softening of Josephson Plasma Mode in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> in the Vicinity of T <sub>c</sub> . <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
65	Periodic and non-periodic current steps in $I-V$ characteristics in mesoscopic intrinsic Josephson junctions of Bi <sub>2</sub> 212. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 437-438, 118-121.	0.6	9
66	Dynamical properties of Josephson vortices in mesoscopic intrinsic Josephson junctions in single crystalline Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2006, 437-438, 111-117.	0.6	40
67	Epitaxial Growth and Magnetic Properties of Ferromagnetic Fe <sub>3</sub> N on Si(111) by Molecular Beam Epitaxy Using AlN/3C-SiC Intermediate Layers. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L705-L707.	0.8	10
68	Physical properties and high-temperature phase analyses in magnetic high- superconductor. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 433-435.	1.3	2
69	Two phase collective modes in a Josephson vortex lattice in the intrinsic Josephson junction Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . <i>Physical Review B</i> , 2005, 72, .	1.1	14
70	Vortex Imaging in Microscopic Superconductors With a Scanning SQUID Microscope. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 696-698.	1.1	14
71	Vortex crossing lattice phase transition in single crystalline Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2004, 412-414, 478-481.	0.6	2
72	Redistribution of Fe ion and superconductivity of FeSr <sub>2</sub> YCu <sub>2</sub> O <sub>6+y</sub> system. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 417, 17-24.	0.6	17

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73	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
74	Flux quantization in a superconducting microdisk. Physica C: Superconductivity and Its Applications, 2003, 388-389, 719-720.	0.6	10
75	Atomic ordering in FeSr <sub>2</sub> LnCu <sub>2</sub> O <sub>6</sub> + $\hat{f}$ system (Ln=Nd, Y and Er). Physica C: Superconductivity and Its Applications, 2003, 400, 43-52.	0.6	25
76	Ambient-pressure synthesis of single-crystal MgB <sub>2</sub> and their superconducting anisotropy. Physical Review B, 2003, 67, .	1.1	33
77	Vortex imaging of magnetic superconductor HoNi <sub>2</sub> B <sub>2</sub> C by scanning SQUID microscopy. Physica C: Superconductivity and Its Applications, 2002, 378-381, 420-423.	0.6	4
78	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
79	Josephson plasma resonance in Josephson vortex states. Physica C: Superconductivity and Its Applications, 2001, 357-360, 611-613.	0.6	0
80	Ferromagnetism and superconductivity in RuSr <sub>2</sub> RCu <sub>2</sub> O <sub>8</sub> (R=Sm, Eu, Gd). Physica C: Superconductivity and Its Applications, 2001, 357-360, 406-409.	0.6	24
81	Superconducting plasma excitation at microwave frequencies in parallel magnetic fields in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ . Physica C: Superconductivity and Its Applications, 2001, 362, 71-77.	0.6	10
82	Josephson plasma resonance in solid and glass phases of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ . Physica C: Superconductivity and Its Applications, 2001, 362, 234-238.	0.6	1
83	Systematic study of Josephson plasma resonance in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ with columnar defects. Physica B: Condensed Matter, 2000, 284-288, 881-882.	1.3	1
84	Josephson plasma resonance in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ in vortex liquid and solid states. Physica B: Condensed Matter, 2000, 284-288, 729-730.	1.3	0
85	Josephson plasma mode in fields parallel to layers of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ . Physica C: Superconductivity and Its Applications, 2000, 341-348, 1173-1174.	0.6	0
86	TEMPERATURE DEPENDENCE OF JOSEPHSON PLASMA MODES IN Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ NEAR T <sub>c</sub> . International Journal of Modern Physics B, 2000, 14, 547-554.	1.0	3
87	In-plane Field Contribution for Josephson Plasma Mode in Under-doped Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ . , 2000, , 401-403.		0
88	Josephson plasma resonance in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ under parallel magnetic field. Journal of Low Temperature Physics, 1999, 117, 611-615.	0.6	1
89	High Field Magnetization in DyCu. Journal of the Physical Society of Japan, 1999, 68, 1025-1030.	0.7	10
90	Observation of the Nambu-Goldstone mode in the high-temperature superconductor Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\hat{f}$ . Europhysics Letters, 1998, 42, 203-208.	0.7	10

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91	Mode separation of the Josephson plasma in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{\Gamma}$ . <i>Physical Review B</i> , 1998, 57, 3108-3115.	1.1	47
92	Longitudinal Josephson-plasma excitation in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{\Gamma}$ : Direct observation of the Nambu-Goldstone mode in a superconductor. <i>Physical Review B</i> , 1997, 56, 5617-5621.	1.1	53
93	ESR study on $\hat{\Gamma}^\pm$ - $(\text{BEDT-TTF})_2\text{KHg}(\text{SCN})_4$ single crystal. <i>Synthetic Metals</i> , 1997, 86, 2015-2016.	2.1	4
94	Direct observation of the Nambu-Goldstone(NG) mode in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ by means of microwave excitation technique. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2423-2424.	0.6	0
95	Longitudinal Josephson plasma: A new aspect of superconductivity. <i>Physica B: Condensed Matter</i> , 1997, 239, 123-127.	1.3	5
96	Sample size dependence of the Josephson plasma resonance in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{\Gamma}$ . <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1599-1600.	0.6	1
97	Josephson plasma excitation in high- $T_c$ superconductors with finite dimensions. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 293, 64-67.	0.6	7
98	Phase coherence and Josephson plasma in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{\Gamma}$ . <i>Physica C: Superconductivity and Its Applications</i> , 1997, 293, 130-135.	0.6	8
99	ESR and magneto-optical measurements in $\text{EuTe}$ films and thin films of $\text{EuTe}/\text{Fe}$ . <i>Physica B: Condensed Matter</i> , 1996, 216, 347-350.	1.3	3
100	Fabrication of Highly Crystalline Corundum-Structured $\hat{\Gamma}^\pm$ - $(\text{Ga}_{1-x}\text{Fe}_x)_2\text{O}_3$ Alloy Thin Films on Sapphire Substrates. <i>Applied Physics Express</i> , 0, 2, 075501.	1.1	83