Manabu Tsujimoto

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9238633/publications.pdf

Version: 2024-02-01

75 papers	1,600 citations	257101 24 h-index	315357 38 g-index
75 all docs	75 docs citations	75 times ranked	302 citing authors

#	Article	IF	Citations
1	Geometrical Resonance Conditions for THz Radiation from the Intrinsic Josephson Junctions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn mathvariant="bold">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></m Broadly Tunable Subterahertz Emission from Internal Branches of the Current-Voltage Characteristics of Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></m Physical Review Letters, 2012, 108, 107006.	2.9	134
3	Evidence for a Dual-Source Mechanism of Terahertz Radiation from Rectangular Mesas of Single Crystalline Bi₂Sr₂CaCu₂O_{8+Î´} Intrinsic Josephson Junctions. Journal of the Physical Society of Japan, 2010, 79, 023703.	0.7	94
4	A high-Tc intrinsic Josephson junction emitter tunable from 0.5 to 2.4 terahertz. Applied Physics Letters, 2015, 107, .	1.5	65
5	Generation of electromagnetic waves from 0.3 to 1.6 terahertz with a high-Tc superconducting Bi2Sr2CaCu2O8+Î´ intrinsic Josephson junction emitter. Applied Physics Letters, 2015, 106, .	1.5	65
6	Terahertz imaging system using high-Tc superconducting oscillation devices. Journal of Applied Physics, 2012, 111, .	1.1	56
7	High Temperature Superconductor Terahertz Emitters: Fundamental Physics and Its Applications. Japanese Journal of Applied Physics, 2012, 51, 010113.	0.8	55
8	Tunable terahertz emission from the intrinsic Josephson junctions in acute isosceles triangular Bi_2Sr_2CaCu_2O_8+Î´ mesas. Optics Express, 2013, 21, 2171.	1.7	54
9	High-power terahertz electromagnetic wave emission from high-T_c superconducting Bi_2Sr_2CaCu_2O_8+Î´ mesa structures. Optics Express, 2011, 19, 3193.	1.7	53
10	Efficient Fabrication of Intrinsic-Josephson-Junction Terahertz Oscillators with Greatly Reduced Self-Heating Effects. Physical Review Applied, 2015, 4, .	1.5	51
11	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></m mathvari. Physical Review Applied, 2014, 2, .	1.5	47
12	Broadly tunable, high-power terahertz radiation up to 73â€‰K from a stand-alone Bi2Sr2CaCu2O8+Î´ mesa. Applied Physics Letters, 2014, 105, .	1.5	45
13	High Temperature Superconductor Terahertz Emitters: Fundamental Physics and Its Applications. Japanese Journal of Applied Physics, 2012, 51, 010113.	0.8	43
14	Computed tomography image using sub-terahertz waves generated from a high-Tc superconducting intrinsic Josephson junction oscillator. Applied Physics Letters, 2014, 104, .	1.5	38
15	Geometrical Full-Wavelength Resonance Mode Generating Terahertz Waves from a Single-Crystalline Bi₂Sr₂CaCu₂O_{8+Î´} Rectangular Mesa. Journal of the Physical Society of Japan, 2011, 80, 094709.	0.7	37
16	Quantum terahertz electronics (QTE) using coherent radiation from high temperature superconducting Bi2Sr2CaCu2O8+Î´ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2013, 491, 2-6.	0.6	36
17	Reflection type of terahertz imaging system using a high-Tc superconducting oscillator. Applied Physics Letters, 2014, 104, .	1.5	35
18	The present status of high-T_csuperconducting terahertz emitters. Superconductor Science and Technology, 2017, 30, 074008.	1.8	34

#	Article	IF	Citations
19	Cavity mode waves during terahertz radiation from rectangular Bi₂Sr₂CaCu₂O_{8 + Î´}mesas. Journal of Physics Condensed Matter, 2011, 23, 025701.	0.7	32
20	Cavity mode enhancement of terahertz emission from equilateral triangular microstrip antennas of the high-T_csuperconductor Bi₂Sr₂CaCu₂O_{8 +Î´}. Journal of Physics Condensed Matter, 2017, 29, 015601.	0.7	29
21	Monolithic Superconducting Emitter of Tunable Circularly Polarized Terahertz Radiation. Physical Review Applied, 2017, 8, .	1.1	28
22	Terahertz Oscillating Devices Based Upon the Intrinsic Josephson Junctions in a High Temperature Superconductor. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 131-146.	1.5	27
23	Effect of Bias Electrode Position on Terahertz Radiation From Pentagonal Mesas of Superconducting <formula formulatype="inline"><tex Notation="TeX">${hbox{Bi}}_{2}{hbox{Sr}}_{2}{hbox{CaCu}}_{2}{hbox{O}}_{8+delta}$</tex> </formula>. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 505-511.	1.2	26
24	Cavity mode identification for coherent terahertz emission from high-Tc superconductors. Optics Express, 2016, 24, 4591.	2.0	26
25	Terahertz Radiation Emitted from Intrinsic Josephson Junctions in High-Tc Superconductor Bi2Sr2CaCu2O8+Î´. IEICE Transactions on Electronics, 2012, E95-C, 347-354.	1.7	24
26	Study of coherent and continuous terahertz wave emission in equilateral triangular mesas of superconducting Bi2Sr2CaCu2O8+Î´ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2013, 491, 16-19.	0.3	23
27	Modeling the electromagnetic cavity mode contributions to the THz emission from triangular Bi2Sr2CaCu2O8+Î´ mesas. Physica C: Superconductivity and Its Applications, 2013, 491, 30-34.	0.6	21
28	Improved excitation mode selectivity of high-Tc superconducting terahertz emitters. Journal of Applied Physics, 2018, 124, .	0.6	20
29	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. Physical Review Applied, 2020, 13, .	1.1	20
30	Characteristic terahertz absorption spectra of paramylon and paramylon-ester compounds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118828.	1.5	18
31	Circularly polarized terahertz radiation monolithically generated by cylindrical mesas of intrinsic Josephson junctions. Applied Physics Letters, 2018, 113, .	2.0	18
32	Terahertz emission from a stack of intrinsic Josephson junctions in Pb-doped Bi₂Sr₂CaCu₂O_{8+Î´}. Superconductor Science and Technology, 2015, 28, 105015.	1.5	17
33	Superconducting Emitter Powered at 1.5 Terahertz by an External Resonator. Physical Review Applied, 2020, 13, .	1.8	15
34	THz emission from a triangular mesa structure of Bi-2212 intrinsic Josephson junctions. Journal of Physics: Conference Series, 2012, 400, 022014.	1.5	15
35	Terahertz emission from the intrinsic Josephson junctions of high-symmetry thermally-managed Bi₂Sr₂CaCu₂O_{8+Î´}microstrip antennas. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012017.	0.3	13
36		0.3	13

#	Article	IF	Citations
37	Molecular vibration and Boson peak analysis of glucose polymers and ester via terahertz spectroscopy. Carbohydrate Polymers, 2020, 232, 115789.	5.1	12
38	Observation of a two-mode resonant state in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>CaC</mml:mi><mml:msub><mml:mi	1.1	11
39	Terahertz radiation generated from cylindrical mesas of Bi2212. Physica C: Superconductivity and Its Applications, 2010, 470, S779-S781.	0.6	10
40	Thermoreflectance microscopy measurements of the Joule heating characteristics of high-Tc superconducting terahertz emitters. Journal of Applied Physics, 2017, 122, .	1.1	10
41	Cavity modes in broadly tunable superconducting coherent terahertz sources. Journal of Physics: Conference Series, 2019, 1182, 012011.	0.3	10
42	Magnetic field effects on THz radiation from rectangular shape Bi2212 IJJâ€™s. Physica C: Superconductivity and Its Applications, 2010, 470, S804-S805.	0.6	9
43	THz-wave emission from innerI-Vbranches of intrinsic Josephson junctions in Bi2Sr2CaCu2O8+Î´. Journal of Physics: Conference Series, 2012, 400, 022127.	0.3	9
44	Effects of magnetic fields on the coherent THz emission from mesas of single crystal Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2013, 494, 117-120.	0.6	9
45	Excitation mode characteristics in Bi2212 rectangular mesa structures. Journal of Physics: Conference Series, 2012, 400, 022050.	0.3	8
46	Engineering and characterization of a packaged high-T_csuperconducting terahertz source module. Superconductor Science and Technology, 2017, 30, 064001.	1.8	8
47	Mesa-Sidewall Effect on Coherent Terahertz Radiation via Spontaneous Synchronization of Intrinsic Josephson Junctions in Bi2Sr2CaCu2O8+Î´. Physical Review Applied, 2020, 13, .	1.5	8
48	Electrothermal behavior and terahertz emission properties of a planar array of two Bi2Sr2CaCu2O8+Îîntrinsic Josephson junction stacks. Superconductor Science and Technology, 2015, 28, 055004.	1.8	7
49	Liquid helium-free high-T _c superconducting terahertz emission system and its applications. Japanese Journal of Applied Physics, 2020, 59, 105004.	0.8	6
50	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
51	Terahertz Wave Emission from Intrinsic Josephson Junctions in Bi2Sr2CaCu2O8+Î´. Journal of Physics: Conference Series, 2012, 400, 022041.	0.3	5
52	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
53	Design and characterization of microstrip patch antennas for high-T_c superconducting terahertz emitters. Optics Express, 2021, 29, 16980.	1.7	5
54	Power enhancement of the high-T_c superconducting terahertz emitter with a modified device structure. Journal of Physics: Conference Series, 2019, 1293, 012056.	0.3	4

#	Article	IF	Citations
55	Study of Radiation Characteristics of Intrinsic Josephson Junction Terahertz Emitters with Different Thickness of Bi2Sr2CaCu2O8+Î´ Crystals. Materials, 2021, 14, 1135.	1.3	4
56	Investigation of wet etching solutions and method for thicker stand alone type of mesa structures of Bi2212 single crystals. Japanese Journal of Applied Physics, 2021, 60, 126501.	0.8	4
57	Coupling to External Structures: Boundary Conditions for the Bi2212-based Superconducting THz Emitter. Journal of Physics: Conference Series, 2012, 400, 022072.	0.3	3
58	Thermal imaging of Bi2212 THz oscillator. Physica C: Superconductivity and Its Applications, 2015, 518, 77-80.	0.6	3
59	Experimental validation of a microstrip antenna model for high-T c superconducting terahertz emitters. Journal of Applied Physics, 2021, 129, .	1.1	3
60	Terahertz Wave Emission from Intrinsic Josephson Junctions in Bi2Sr2CaCu2O8+Î´. Journal of Physics: Conference Series, 2012, 400, 022040.	0.3	2
61	Experimental and theoretical studies of mesas of several geometries for terahertz wave radiation from the intrinsic Josephson junctions in superconducting Bi<inf>2</inf>Sr<inf>2</inf>CaCu<inf>2</inf>O<inf>8+δ</inf>. , 2012, , .		2
62	THz LASER using high-Tc superconductor Bi[sub 2]Sr[sub 2]CaCu[sub 2]O[sub 8+] Mesa Structures. , 2012, , .		0
63	Magnetic field effects and dynamic control of terahertz electromagnetic wave emission from high-Tcsuperconducting Bi2Sr2CaCu2O8+Î´mesa structures. Journal of Physics: Conference Series, 2012, 400, 022137.	0.3	0
64	High power THz radiation from high-T<inf>c</inf> superconducting intrinsic Josephson devices. , 2012, , .		0
65	Imaging of local temperature distributions in mesas of high-T_csuperconducting terahertz sources. Journal of Physics: Conference Series, 2014, 568, 022048.	0.3	0
66	The influence of electrode position on the current-voltage characteristics and terahertz radiation in a high-T<inf>c</inf> superconducting device. , 2015, , .		0
67	Bridging the terahertz-gap using high-T<inf>c</inf> superconducting emitters with coherent and continuous electromagnetic wave (EMW) radiation. , 2016, , .		0
68	Local heating effects on the radiation intensity of high-T c superconducting terahertz emitters. Journal of Physics: Conference Series, 2019, 1293, 012057.	0.3	0
69	Coherent Terahertz Radiation from Homogeneous Intrinsic Josephson Junction Stacks of Cuprate High-Temperature Superconductors. , 2019, , .		0
70	Monolithic terahertz emitter of high-temperature superconductors. , 2019, , .		0
71	Stokes-parameter analysis of circular polarized terahertz waves from superconducting Josephson plasma emitter. , 2019, , .		0
72	Terahertz Radiation from the High-Tc Superconductor Intrinsic Josephson Junctions Coupled to an External Resonator. , 2019, , .		0

#	Article	IF	Citations
73	Control of Mesa Sidewalls for Coherent Terahertz Radiation from Intrinsic Josephson Junctions of High-Tc Superconductors. , 2019, , .		0
74	Development of High-Tc Superconducting THz Emitters. , 2019, , .		0
75	Mutual Synchronization of Terahertz Emissions from Multiple Intrinsic Josephson Junction Mesas. , 2020, , .		0