

Manabu Tsujimoto

List of Publications by Year in descending order

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75
times ranked

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#	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	Characteristic terahertz absorption spectra of paramylon and paramylon-ester compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 244, 118828.	2.0	18
3	Study of Radiation Characteristics of Intrinsic Josephson Junction Terahertz Emitters with Different Thickness of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Crystals. <i>Materials</i> , 2021, 14, 1135.	1.3	4
4	Design and characterization of microstrip patch antennas for high-T _c superconducting terahertz emitters. <i>Optics Express</i> , 2021, 29, 16980.	1.7	5
5	Experimental validation of a microstrip antenna model for high-T _c superconducting terahertz emitters. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	3
6	Investigation of wet etching solutions and method for thicker stand alone type of mesa structures of Bi ₂ 212 single crystals. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 126501.	0.8	4
7	Molecular vibration and Boson peak analysis of glucose polymers and ester via terahertz spectroscopy. <i>Carbohydrate Polymers</i> , 2020, 232, 115789.	5.1	12
8	Mutual Synchronization of Terahertz Emissions from Multiple Intrinsic Josephson Junction Mesas. , 2020, , .		0
9	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. <i>Physical Review Applied</i> , 2020, 13, .	1.5	18
10	Superconducting Emitter Powered at 1.5 Terahertz by an External Resonator. <i>Physical Review Applied</i> , 2020, 13, .	1.5	15
11	Mesa-Sidewall Effect on Coherent Terahertz Radiation via Spontaneous Synchronization of Intrinsic Josephson Junctions in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Physical Review Applied</i> , 2020, 13, .	1.5	8
12	Liquid helium-free high-T _c superconducting terahertz emission system and its applications. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 105004.	0.8	6
13	Cavity modes in broadly tunable superconducting coherent terahertz sources. <i>Journal of Physics: Conference Series</i> , 2019, 1182, 012011.	0.3	10
14	Power enhancement of the high-T _c superconducting terahertz emitter with a modified device structure. <i>Journal of Physics: Conference Series</i> , 2019, 1293, 012056.	0.3	4
15	Local heating effects on the radiation intensity of high-T _c superconducting terahertz emitters. <i>Journal of Physics: Conference Series</i> , 2019, 1293, 012057.	0.3	0
16	Coherent Terahertz Radiation from Homogeneous Intrinsic Josephson Junction Stacks of Cuprate High-Temperature Superconductors. , 2019, , .		0
17	Monolithic terahertz emitter of high-temperature superconductors. , 2019, , .		0
18	Stokes-parameter analysis of circular polarized terahertz waves from superconducting Josephson plasma emitter. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Terahertz Radiation from the High-Tc Superconductor Intrinsic Josephson Junctions Coupled to an External Resonator. , 2019, , .		0
20	Control of Mesa Sidewalls for Coherent Terahertz Radiation from Intrinsic Josephson Junctions of High-Tc Superconductors. , 2019, , .		0
21	Development of High-Tc Superconducting THz Emitters. , 2019, , .		0
22	Observation of a two-mode resonant state in a $B_{i2}Sr_{2}CaCu_{2}O_{8+\delta}$ microstrip antennas. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012017.	1.1	11
23	Circularly polarized terahertz radiation monolithically generated by cylindrical mesas of intrinsic Josephson junctions. Applied Physics Letters, 2018, 113, .	1.5	17
24	Improved excitation mode selectivity of high-Tc superconducting terahertz emitters. Journal of Applied Physics, 2018, 124, .	1.1	20
25	The present status of high-Tc superconducting terahertz emitters. Superconductor Science and Technology, 2017, 30, 074008.	1.8	34
26	Engineering and characterization of a packaged high-Tc superconducting terahertz source module. Superconductor Science and Technology, 2017, 30, 064001.	1.8	8
27	Cavity mode enhancement of terahertz emission from equilateral triangular microstrip antennas of the high-Tc superconductor $Bi_{2}Sr_{2}CaCu_{2}O_{8+\delta}$ microstrip antennas. Journal of Physics Condensed Matter, 2017, 29, 015601.	0.7	29
28	Thermoreflectance microscopy measurements of the Joule heating characteristics of high-Tc superconducting terahertz emitters. Journal of Applied Physics, 2017, 122, .	1.1	10
29	Monolithic Superconducting Emitter of Tunable Circularly Polarized Terahertz Radiation. Physical Review Applied, 2017, 8, .	1.5	27
30	Terahertz emission from the intrinsic Josephson junctions of high-symmetry thermally-managed $Bi_{2}Sr_{2}CaCu_{2}O_{8+\delta}$ microstrip antennas. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012017.	0.3	13
31	Bridging the terahertz-gap using high-Tc superconducting emitters with coherent and continuous electromagnetic wave (EMW) radiation. , 2016, , .		0
32	Cavity mode identification for coherent terahertz emission from high-Tc superconductors. Optics Express, 2016, 24, 4591.	1.7	24
33	Polarization Enhancement of Terahertz Radiation Generated by Intrinsic Josephson Junctions in a Truncated Edge Square $Bi_{2}Sr_{2}CaCu_{2}O_{8+\delta}$ Mesa. Physics Procedia, 2016, 81, 133-136.	1.2	5
34	Efficient Fabrication of Intrinsic-Josephson-Junction Terahertz Oscillators with Greatly Reduced Self-Heating Effects. Physical Review Applied, 2015, 4, .	1.5	51
35	A high-Tc intrinsic Josephson junction emitter tunable from 0.5 to 2.4 terahertz. Applied Physics Letters, 2015, 107, .	1.5	65
36	Effect of Bias Electrode Position on Terahertz Radiation From Pentagonal Mesas of Superconducting $Bi_{2}Sr_{2}CaCu_{2}O_{8+\delta}$. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 505-511.	2.0	26

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37	The influence of electrode position on the current-voltage characteristics and terahertz radiation in a high-T _c superconducting device. , 2015, , .		0
38	Generation of electromagnetic waves from 0.3 to 1.6 terahertz with a high-T _c superconducting Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ intrinsic Josephson junction emitter. Applied Physics Letters, 2015, 106, .	1.5	65
39	Electrothermal behavior and terahertz emission properties of a planar array of two Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ intrinsic Josephson junction stacks. Superconductor Science and Technology, 2015, 28, 055004.	1.8	7
40	Terahertz emission from a stack of intrinsic Josephson junctions in Pb-doped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Superconductor Science and Technology, 2015, 28, 105015.	1.8	15
41	Thermal imaging of Bi ₂ 212 THz oscillator. Physica C: Superconductivity and Its Applications, 2015, 518, 77-80.	1.1	28
42	Broadly tunable, high-power terahertz radiation up to 73 K from a stand-alone Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ mesa. Applied Physics Letters, 2014, 105, .	0.6	3
43	Reflection type of terahertz imaging system using a high-T _c superconducting oscillator. Applied Physics Letters, 2014, 104, .	1.5	45
44	Dynamic Control of Temperature Distributions in Stacks of Intrinsic Josephson Junctions in $\text{Bi}_{2-x}\text{Sr}_x\text{CaCu}_2\text{O}_{8-\delta}$ Physical Review Applied, 2014, 2, .	1.5	47
45	Computed tomography image using sub-terahertz waves generated from a high-T _c superconducting intrinsic Josephson junction oscillator. Applied Physics Letters, 2014, 104, .	1.5	38
46	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.	1.2	26
47	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
48	Quantum terahertz electronics (QTE) using coherent radiation from high temperature superconducting Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2013, 491, 2-6.	0.6	36
49	Study of coherent and continuous terahertz wave emission in equilateral triangular mesas of superconducting Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2013, 491, 16-19.	0.6	21
50	Modeling the electromagnetic cavity mode contributions to the THz emission from triangular Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ mesas. Physica C: Superconductivity and Its Applications, 2013, 491, 30-34.	0.6	20
51	Effects of magnetic fields on the coherent THz emission from mesas of single crystal Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physica C: Superconductivity and Its Applications, 2013, 494, 117-120.	0.6	9
52	Tunable terahertz emission from the intrinsic Josephson junctions in acute isosceles triangular Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ mesas. Optics Express, 2013, 21, 2171.	1.7	54
53	THz LASER using high-T _c superconductor Bi ₂ Sr ₂ CaCu ₂ O ₈ Mesa Structures. , 2012, , .		0

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55	Broadly Tunable Subterahertz Emission from Internal Branches of the Current-Voltage Characteristics of Superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2012, 108, 107006.	1.1	10
56	High Temperature Superconductor Terahertz Emitters: Fundamental Physics and Its Applications. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010113.	0.8	55
57	Coupling to External Structures: Boundary Conditions for the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ -based Superconducting THz Emitter. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022072.	0.3	3
58	Terahertz Wave Emission from Intrinsic Josephson Junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022041.	0.3	5
59	THz-wave emission from inner-branches of intrinsic Josephson junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022127.	0.3	9
60	Magnetic field effects and dynamic control of terahertz electromagnetic wave emission from high-T _c superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ mesa structures. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022137.	0.3	0
61	Terahertz Radiation Emitted from Intrinsic Josephson Junctions in High-T _c Superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>IEICE Transactions on Electronics</i> , 2012, E95-C, 347-354.	0.3	23
62	Terahertz Wave Emission from Intrinsic Josephson Junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022040.	0.3	2
63	Excitation mode characteristics in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ rectangular mesa structures. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022050.	0.3	8
64	THz emission from a triangular mesa structure of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ intrinsic Josephson junctions. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022014.	0.3	13
65	High power THz radiation from high-T _c superconducting intrinsic Josephson devices. , 2012, , .		0
66	Experimental and theoretical studies of mesas of several geometries for terahertz wave radiation from the intrinsic Josephson junctions in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. , 2012, , .		2
67	Terahertz imaging system using high-T _c superconducting oscillation devices. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	56
68	High Temperature Superconductor Terahertz Emitters: Fundamental Physics and Its Applications. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010113.	0.8	43
69	High-power terahertz electromagnetic wave emission from high-T _c superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ mesa structures. <i>Optics Express</i> , 2011, 19, 3193.	1.7	53
70	Cavity mode waves during terahertz radiation from rectangular $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ mesas. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 025701.	0.7	32
71	Geometrical Full-Wavelength Resonance Mode Generating Terahertz Waves from a Single-Crystalline $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Rectangular Mesa. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 094709.	0.7	37
72	Terahertz radiation generated from cylindrical mesas of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S779-S781.	0.6	10

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73	Magnetic field effects on THz radiation from rectangular shape Bi ₂ Te ₂ Se ₂ thin films. Physica C: Superconductivity and Its Applications, 2010, 470, S804-S805.	0.6	9
74	Geometrical Resonance Conditions for THz Radiation from the Intrinsic Josephson Junctions in Bi ₂ Te ₂ Se ₂ thin films. Physical Review Letters, 2010, 105, 037005.	0.6	134
75	Evidence for a Dual-Source Mechanism of Terahertz Radiation from Rectangular Mesas of Single Crystalline Bi ₂ Sr ₂ CaCu ₂ O ₈ +F _{1-x} Intrinsic Josephson Junctions. Journal of the Physical Society of Japan, 2010, 79, 023703.	0.7	94