

Masayoshi Tonouchi

List of Publications by Year in descending order

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531
papers

12,416
citations

70961

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29081

104
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544
all docs

544
docs citations

544
times ranked

9043
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Cutting-edge terahertz technology. Nature Photonics, 2007, 1, 97-105. | 15.6 | 5,413 |
| 2 | Carbon Nanotube Terahertz Polarizer. Nano Letters, 2009, 9, 2610-2613. | 4.5 | 240 |
| 3 | Terahertz and Infrared Spectroscopy of Gated Large-Area Graphene. Nano Letters, 2012, 12, 3711-3715. | 4.5 | 235 |
| 4 | Terahertz Radiation by an Ultrafast Spontaneous Polarization Modulation of Multiferroic BiFeO ₃ Thin Films. Physical Review Letters, 2006, 96, 117402. | 2.9 | 224 |
| 5 | Plasmon-induced transparency in metamaterials: Active near field coupling between bright superconducting and dark metallic mode resonators. Applied Physics Letters, 2013, 103, . | 1.5 | 182 |
| 6 | Laser terahertz-emission microscope for inspecting electrical faults in integrated circuits. Optics Letters, 2003, 28, 2058. | 1.7 | 177 |
| 7 | Broadband Terahertz Polarizers with Ideal Performance Based on Aligned Carbon Nanotube Stacks. Nano Letters, 2012, 12, 787-790. | 4.5 | 153 |
| 8 | Understanding the Nature of Ultrafast Polarization Dynamics of Ferroelectric Memory in the Multiferroic BiFeO ₃ . Advanced Materials, 2009, 21, 2881-2885. | 11.1 | 148 |
| 9 | Terahertz radiation from superconducting YBa ₂ Cu ₃ O _{7-δ} thin films excited by femtosecond optical pulses. Applied Physics Letters, 1996, 69, 2122-2124. | 1.5 | 145 |
| 10 | Ferroelectric Soft Mode in a SrTiO_3 Thin Film Impulsively Driven to the Anharmonic Regime Using Intense Picosecond Terahertz Pulses. Physical Review Letters, 2012, 108, 097401. | 2.9 | 140 |
| 11 | Fe-implanted InGaAs terahertz emitters for 1.56 μ m wavelength excitation. Applied Physics Letters, 2005, 86, 051104. | 1.5 | 130 |
| 12 | Imaging of large-scale integrated circuits using laser-terahertz emission microscopy. Optics Express, 2005, 13, 115. | 1.7 | 130 |
| 13 | Ultrashort Electromagnetic Pulse Radiation from YBCO Thin Films Excited by Femtosecond Optical Pulse. Japanese Journal of Applied Physics, 1996, 35, 2624-2632. | 0.8 | 112 |
| 14 | Sub-diffraction thin-film sensing with planar terahertz metamaterials. Optics Express, 2012, 20, 3345. | 1.7 | 100 |
| 15 | Fe-implanted InGaAs photoconductive terahertz detectors triggered by 1.56 μ m femtosecond optical pulses. Applied Physics Letters, 2005, 86, 163504. | 1.5 | 94 |
| 16 | Broadband plasmon induced transparency in terahertz metamaterials. Nanotechnology, 2013, 24, 214003. | 1.3 | 94 |
| 17 | Isoform-specific regulation of the lactate transporters MCT1 and MCT4 by contractile activity. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E1131-E1138. | 1.8 | 93 |
| 18 | Abundance and subcellular distribution of MCT1 and MCT4 in heart and fast-twitch skeletal muscles. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E1067-E1077. | 1.8 | 85 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A cross-correlation spectroscopy in subterahertz region using an incoherent light source. Applied Physics Letters, 2000, 76, 1519-1521. | 1.5 | 79 |
| 20 | Spectroscopic evidence for a charge-density-wave condensate in a charge-ordered manganite: Observation of a collective excitation mode in Pr _{0.7} Ca _{0.3} MnO ₃ by using THz time-domain spectroscopy. Physical Review B, 2002, 66, . | 1.1 | 78 |
| 21 | Scanning laser terahertz near-field imaging system. Optics Express, 2012, 20, 12959. | 1.7 | 73 |
| 22 | Terahertz radiation imaging of supercurrent distribution in vortex-penetrated YBa ₂ Cu ₃ O _{7-δ} thin film strips. Journal of Applied Physics, 2000, 87, 7366-7375. | 1.1 | 70 |
| 23 | Thickness dependence of the structure and magnetization of BiFeO ₃ thin films on (LaAlO ₃) _{0.3} (Sr ₂ AlTaO ₆) _{0.7} (001) substrate. Physical Review B, 2007, 75, . | 1.1 | 69 |
| 24 | Sub-THz spectroscopic system using a multimode laser diode and photoconductive antenna. Applied Physics Letters, 1999, 75, 3772-3774. | 1.5 | 63 |
| 25 | Chemical sensing plate with a laser-terahertz monitoring system. Applied Optics, 2008, 47, 3324. | 2.1 | 63 |
| 26 | Adsorption energy of oxygen molecules on graphene and two-dimensional tungsten disulfide. Scientific Reports, 2017, 7, 1774. | 1.6 | 62 |
| 27 | All-MgB[sub 2] tunnel junctions with aluminum nitride barriers. Applied Physics Letters, 2005, 86, 072512. | 1.5 | 58 |
| 28 | Invited Article: Terahertz microfluidic chips sensitivity-enhanced with a few arrays of meta-atoms. APL Photonics, 2018, 3, . | 3.0 | 55 |
| 29 | Imaging of a Polycrystalline Silicon Solar Cell Using a Laser Terahertz Emission Microscope. Applied Physics Express, 2012, 5, 112301. | 1.1 | 54 |
| 30 | Low-loss terahertz metamaterial from superconducting niobium nitride films. Optics Express, 2012, 20, 42. | 1.7 | 53 |
| 31 | Terahertz nonlinear superconducting metamaterials. Applied Physics Letters, 2013, 102, . | 1.5 | 53 |
| 32 | Scanning laser THz imaging system. Journal Physics D: Applied Physics, 2014, 47, 374007. | 1.3 | 53 |
| 33 | Excitation wavelength dependence of terahertz emission from semiconductor surface. Applied Physics Letters, 2006, 89, 091111. | 1.5 | 52 |
| 34 | Collective antenna effects in the terahertz and infrared response of highly aligned carbon nanotube arrays. Physical Review B, 2013, 87, . | 1.1 | 52 |
| 35 | Observation of supercurrent distribution in YBa ₂ Cu ₃ O _{7-δ} thin films using THz radiation excited with femtosecond laser pulses. Applied Physics Letters, 1999, 74, 1317-1319. | 1.5 | 51 |
| 36 | Terahertz radiation from magnetoresistive Pr _{0.7} Ca _{0.3} MnO ₃ thin films. Applied Physics Letters, 2001, 78, 4115-4117. | 1.5 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Observation of TO1 soft mode in SrTiO3 films by terahertz time domain spectroscopy. Applied Physics Letters, 2005, 87, 182909. | 1.5 | 51 |
| 38 | A Terahertz Chemical Microscope to Visualize Chemical Concentrations in Microfluidic Chips. Japanese Journal of Applied Physics, 2007, 46, L1052. | 0.8 | 49 |
| 39 | Epitaxial growth of NbN on an ultrathin MgO/semiconductor system. Journal of Applied Physics, 1987, 62, 961-966. | 1.1 | 48 |
| 40 | Low-energy charge dynamics in La0.7Ca0.3MnO3:THz time-domain spectroscopic studies. Physical Review B, 2000, 62, R11965-R11968. | 1.1 | 45 |
| 41 | Planar-type spin valves based on low-molecular-weight organic materials with La0.67Sr0.33MnO3 electrodes. Applied Physics Letters, 2008, 92, 153304. | 1.5 | 45 |
| 42 | Influence of manganese doping in multiferroic bismuth ferrite thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 1174-1176. | 1.0 | 38 |
| 43 | A Terahertz-Microfluidic Chip with a Few Arrays of Asymmetric Meta-Atoms for the Ultra-Trace Sensing of Solutions. Photonics, 2019, 6, 12. | 0.9 | 37 |
| 44 | Novel Terahertz Radiation from Flux-Trapped YBa ₂ Cu ₃ O _{7-δ} Thin Films Excited by Femtosecond Laser Pulses. Japanese Journal of Applied Physics, 1997, 36, L93-L95. | 0.8 | 36 |
| 45 | Terahertz chemical microscope for label-free detection of protein complex. Applied Physics Letters, 2010, 96, 211114. | 1.5 | 36 |
| 46 | Tunable electromagnetically induced transparency from a superconducting terahertz metamaterial. Applied Physics Letters, 2017, 110, . | 1.5 | 36 |
| 47 | Terahertz Emission Study of Femtosecond Time-Transient Nonequilibrium State in Optically Excited YBa ₂ Cu ₃ O _{7-δ} Thin Films. Japanese Journal of Applied Physics, 1996, 35, L1578-L1581. | 0.8 | 35 |
| 48 | Hardening of the ferroelectric soft mode in SrTiO3 thin films. Applied Physics Letters, 2008, 93, . | 1.5 | 35 |
| 49 | Transmission-Type Laser THz Emission Microscope Using a Solid Immersion Lens. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 498-504. | 1.9 | 35 |
| 50 | Resonant terahertz radiation from Tl2Ba2CaCu2O8+ δ thin films by ultrafast optical pulse excitation. Applied Physics Letters, 2002, 80, 3147-3149. | 1.5 | 34 |
| 51 | Chemical Etching of High-Tc Superconducting Y-Ba-Cu-O Films in Phosphoric Acid Solution. Japanese Journal of Applied Physics, 1987, 26, L1533-L1534. | 0.8 | 33 |
| 52 | Control of magnetic flux in a YBa2Cu3O7+ δ thin film loop using femtosecond laser pulses. Applied Physics Letters, 1997, 71, 2364-2366. | 1.5 | 33 |
| 53 | Tissue-specific and isoform-specific changes in MCT1 and MCT4 in heart and soleus muscle during a 1-yr period. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E749-E756. | 1.8 | 33 |
| 54 | Noncontact inspection technique for electrical failures in semiconductor devices using a laser terahertz emission microscope. Applied Physics Letters, 2008, 93, . | 1.5 | 33 |

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|----|--|------|-----------|
| 55 | Terahertz Electrodynamics in Transition Metal Oxides. <i>Advanced Optical Materials</i> , 2020, 8, 1900958. | 3.6 | 33 |
| 56 | Room-Temperature Synthesis of ZnS:Mn Films by H ₂ Plasma Chemical Sputtering. <i>Japanese Journal of Applied Physics</i> , 1990, 29, L2453-L2456. | 0.8 | 31 |
| 57 | Terahertz Emission Functionality of High-Temperature Superconductors and Similar Complex Systems. <i>Advanced Optical Materials</i> , 2020, 8, 1900892. | 3.6 | 31 |
| 58 | Penetration depth measurements of single-crystal NbN films at millimeter-wave region. <i>Applied Physics Letters</i> , 1996, 68, 562-563. | 1.5 | 30 |
| 59 | Bandwidth tunable THz wave generation in large-area periodically poled lithium niobate. <i>Optics Express</i> , 2012, 20, 8784. | 1.7 | 30 |
| 60 | Probing the surface potential of oxidized silicon by assessing terahertz emission. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 30 |
| 61 | Grain Boundary Josephson Junctions Using Y-Ba-Cu-O Films Operative at 77 K. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1961-L1963. | 0.8 | 29 |
| 62 | Enhanced THz radiation from YBCO thin film bow-tie antennas with hyper-hemispherical MgO lens. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 2913-2916. | 1.1 | 29 |
| 63 | Vector imaging of supercurrent flow in YBa ₂ Cu ₃ O _{7-δ} thin films using terahertz radiation. <i>Applied Physics Letters</i> , 1999, 75, 3387-3389. | 1.5 | 29 |
| 64 | Hypothalamic Region Facilitating Shivering in Rats.. <i>The Japanese Journal of Physiology</i> , 2001, 51, 625-629. | 0.9 | 29 |
| 65 | Influence of Mn Doping on Ferroelectric-Antiferromagnet BiFeO ₃ Thin Films Grown on (LaAlO ₃) _{0.3} (Sr ₂ AlTaO ₆) _{0.7} Substrates. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L755-L757. | 0.8 | 29 |
| 66 | Visualization of GaN surface potential using terahertz emission enhanced by local defects. <i>Scientific Reports</i> , 2015, 5, 13860. | 1.6 | 29 |
| 67 | Sub-THz Emission Properties of Photoconductive Antennas Excited with Multimode Laser Diode. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 1388-1389. | 0.8 | 28 |
| 68 | Laser terahertz emission system to investigate hydrogen gas sensors. <i>Applied Physics Letters</i> , 2005, 86, 261102. | 1.5 | 28 |
| 69 | Laser Terahertz Emission Microscope. <i>Proceedings of the IEEE</i> , 2007, 95, 1646-1657. | 16.4 | 28 |
| 70 | Backside observation of large-scale integrated circuits with multilayered interconnections using laser terahertz emission microscope. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 28 |
| 71 | Polarization imaging of imperfect <i>m</i> -plane GaN surfaces. <i>APL Photonics</i> , 2017, 2, 041304. | 3.0 | 28 |
| 72 | Simplified formulas for the generation of terahertz waves from semiconductor surfaces excited with a femtosecond laser. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 28 |

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| 73 | Angular dependence of terahertz emission from semiconductor surfaces photoexcited by femtosecond optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, A14. | 0.9 | 27 |
| 74 | Nonlinear response of superconducting NbN thin film and NbN metamaterial induced by intense terahertz pulses. <i>New Journal of Physics</i> , 2013, 15, 055017. | 1.2 | 27 |
| 75 | Pump and Probe Terahertz Generation Study of Ultrafast Carrier Dynamics in Low-Temperature Grown-GaAs. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L706-L709. | 0.8 | 26 |
| 76 | Time-Domain Terahertz Spectroscopy of (100) (LaAlO ₃) _{0.3} -(Sr ₂ AlTaO ₆) _{0.7} Substrate. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L38-L40. | 0.8 | 25 |
| 77 | Development of DAST-derivative crystals for terahertz waves generation. <i>Journal of Crystal Growth</i> , 2009, 311, 568-571. | 0.7 | 25 |
| 78 | Bulk Crystal Growth of Stilbazolium Derivatives for Terahertz Waves Generation. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 075502. | 0.8 | 25 |
| 79 | Imaging molecular adsorption and desorption dynamics on graphene using terahertz emission spectroscopy. <i>Scientific Reports</i> , 2014, 4, 6046. | 1.6 | 25 |
| 80 | Development of Fiber-Coupled Compact Terahertz Time-Domain Spectroscopy Imaging Head. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7928-7932. | 0.8 | 24 |
| 81 | Superconductor-Base Hot-Electron Transistor I. Theory and Design. <i>Japanese Journal of Applied Physics</i> , 1986, 25, 705-710. | 0.8 | 23 |
| 82 | Effects of Light Exposure during Anodization on Photoluminescence of Porous Si. <i>Japanese Journal of Applied Physics</i> , 1992, 31, L373-L375. | 0.8 | 23 |
| 83 | Noise temperature measurement of YBCO Josephson mixers in millimeter and submillimeter waves. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 2595-2598. | 1.1 | 23 |
| 84 | THz emission characteristics from p/n junctions with metal lines under non-bias conditions for LSI failure analysis. <i>Optics Express</i> , 2011, 19, 10864. | 1.7 | 23 |
| 85 | Terahertz near-field microscopy of ductal carcinoma in situ (DCIS) of the breast. <i>JPhys Photonics</i> , 2020, 2, 044008. | 2.2 | 23 |
| 86 | Three terminal YBaCuO Josephson device with quasi-particle injection gate. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 927-930. | 1.2 | 22 |
| 87 | Terahertz Radiation from (111) InAs Surface Using 1.55 μm Femtosecond Laser Pulses. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1035-L1037. | 0.8 | 22 |
| 88 | Partial and macroscopic phase coherences in an underdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ thin film. <i>Europhysics Letters</i> , 2002, 60, 288-294. | 0.7 | 22 |
| 89 | Nondestructive Evaluation of Rubber Compounds by Terahertz Time-Domain Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 1457-1463. | 1.2 | 22 |
| 90 | Terahertz Dynamics of Quantum-Confined Electrons in Carbon Nanomaterials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 846-860. | 1.2 | 22 |

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| 91 | Study on terahertz emission and optical/terahertz pulse responses with superconductors. Superconductor Science and Technology, 2013, 26, 093002. | 1.8 | 22 |
| 92 | Visualization of Optically Controlled Magnetic Flux in YBa ₂ Cu ₃ O _{7-δ} Thin Film Loop by Terahertz Radiation Imaging. Japanese Journal of Applied Physics, 1998, 37, L1301-L1303. | 0.8 | 21 |
| 93 | Effects of disorder and scaling of optical conductivity in Nd _{0.5} Ca _{0.5} \hat{x} Ba _x MnO ₃ (x=0 and 0.02) thin films as observed by terahertz time-domain spectroscopy. Applied Physics Letters, 2008, 93, 231908. | 1.5 | 21 |
| 94 | Terahertz emission from coherent phonons in lithium ternary chalcopyrite crystals illuminated by 1560-nm femtosecond laser pulses. Europhysics Letters, 2010, 91, 20004. | 0.7 | 21 |
| 95 | Terahertz generation by optical rectification in lithium niobate crystal using a shadow mask. Optics Express, 2012, 20, 25752. | 1.7 | 21 |
| 96 | Comparison between laser terahertz emission microscope and conventional methods for analysis of polycrystalline silicon solar cell. AIP Advances, 2015, 5, . | 0.6 | 21 |
| 97 | Scanning laser terahertz near-field reflection imaging system. Applied Physics Express, 2019, 12, 122005. | 1.1 | 21 |
| 98 | Terahertz Excitons in Carbon Nanotubes: Exciton Autoionization and Multiplication. Nano Letters, 2020, 20, 3098-3105. | 4.5 | 21 |
| 99 | Characterization of through-silicon vias using laser terahertz emission microscopy. Nature Electronics, 2021, 4, 202-207. | 13.1 | 21 |
| 100 | Emission Properties of YBa ₂ Cu ₃ O _{7-δ} Film Photoswitches as Terahertz Radiation Sources. Japanese Journal of Applied Physics, 1997, 36, 1984-1989. | 0.8 | 20 |
| 101 | Terahertz Time-Domain Spectroscopy to Identify and Evaluate Anomer in Lactose. American Journal of Analytical Chemistry, 2013, 04, 756-762. | 0.3 | 20 |
| 102 | Dielectric Response of c-Oriented SrBi ₂ Ta ₂ O ₉ Thin Films Observed with Interdigital Electrodes. Japanese Journal of Applied Physics, 2002, 41, 6790-6792. | 0.8 | 19 |
| 103 | Study of photoexcited-carrier dynamics in GaAs photoconductive switches using dynamic terahertz emission microscopy. Photonics Research, 2016, 4, A9. | 3.4 | 19 |
| 104 | Direct Measurements of Terahertz Meta-atoms with Near-Field Emission of Terahertz Waves. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1107-1119. | 1.2 | 19 |
| 105 | Ultrafast spatiotemporal photocarrier dynamics near GaN surfaces studied by terahertz emission spectroscopy. Scientific Reports, 2020, 10, 14633. | 1.6 | 19 |
| 106 | Enhanced Sub-Picosecond Electromagnetic Radiation from YBa ₂ Cu ₃ O _{7-δ} Thin-Film Bow-Tie Antennas Excited with Femtoseconds Laser Pulses. Japanese Journal of Applied Physics, 1996, 35, L1184-L1187. | 0.8 | 18 |
| 107 | Influence of self-heating on the I-V characteristics in Bi-2212 intrinsic junctions. Physica C: Superconductivity and Its Applications, 1997, 289, 109-113. | 0.6 | 18 |
| 108 | Terahertz Pulse Radiation Properties of a Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Bowtie Antenna by Optical Pulse Illumination. Japanese Journal of Applied Physics, 2002, 41, 1992-1997. | 0.8 | 18 |

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|-----|--|-----|-----------|
| 109 | Characteristics of MgB ₂ /AlN/NbN Josephson junctions with optimized conditions. Superconductor Science and Technology, 2004, 17, 1376-1380. | 1.8 | 18 |
| 110 | Tunable narrowband terahertz generation in lithium niobate crystals using a binary phase mask. Optics Letters, 2013, 38, 953. | 1.7 | 18 |
| 111 | Chemical Etching of High-Tc Superconducting Films in Feliox-115 Solution. Japanese Journal of Applied Physics, 1988, 27, L98-L100. | 0.8 | 17 |
| 112 | Terahertz Time Domain Spectroscopy for Structure-II Gas Hydrates. Applied Physics Express, 2009, 2, 122303. | 1.1 | 17 |
| 113 | Distributed source model for the full-wave electromagnetic simulation of nonlinear terahertz generation. Optics Express, 2012, 20, 18397. | 1.7 | 17 |
| 114 | Evaluation of human hairs with terahertz wave. Optical Engineering, 2013, 53, 031205. | 0.5 | 17 |
| 115 | Time-Domain Terahertz Spectroscopy of SrBi ₂ Ta ₂ O ₉ Thin Films on MgO Substrates. Japanese Journal of Applied Physics, 2002, 41, 6803-6805. | 0.8 | 16 |
| 116 | Recent Topics in High-Tc Superconductive Electronics. Japanese Journal of Applied Physics, 2005, 44, 7735-7749. | 0.8 | 16 |
| 117 | Scanning Probe Laser Terahertz Emission Microscopy System. Japanese Journal of Applied Physics, 2006, 45, L824-L826. | 0.8 | 16 |
| 118 | Rubrene single crystal field-effect transistor with epitaxial BaTiO ₃ high-k gate insulator. Applied Physics Letters, 2006, 89, 152110. | 1.5 | 16 |
| 119 | Intense Terahertz Radiation from InAs Thin Films. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 646-654. | 1.2 | 16 |
| 120 | Measurement of Ballistic Mean-Free-Path of Hot Quasiparticles Injected in Superconductor-Base Hot-Electron Transistors. Japanese Journal of Applied Physics, 1986, 25, 402-405. | 0.8 | 15 |
| 121 | Hall Coefficient of La-Sr-Cu Oxide Superconducting Compound. Japanese Journal of Applied Physics, 1987, 26, L519-L520. | 0.8 | 15 |
| 122 | Laser THz emission microscope as a novel tool for LSI failure analysis. Microelectronics Reliability, 2009, 49, 1116-1126. | 0.9 | 15 |
| 123 | Perfect Broadband Terahertz Antireflection by Deep-Subwavelength, Thin, Lamellar Metallic Gratings. Advanced Optical Materials, 2013, 1, 910-914. | 3.6 | 15 |
| 124 | Terahertz Emission Spectroscopy and Microscopy on Ultrawide Bandgap Semiconductor \hat{I}^2 -Ga ₂ O ₃ . Photonics, 2020, 7, 73. | 0.9 | 15 |
| 125 | Reversible and bistable terahertz radiation from magnetoresistive Pr _{0.7} Ca _{0.3} MnO ₃ thin films. Applied Physics Letters, 2003, 82, 3412-3414. | 1.5 | 14 |
| 126 | Visualization of photoassisted polarization switching and its consequences in BiFeO ₃ thin films probed by terahertz radiation. Applied Physics Letters, 2007, 91, . | 1.5 | 14 |

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|-----|---|-----|-----------|
| 145 | High frequency properties of YBCO thin films diagnosed by time-domain terahertz spectroscopy. Physica C: Superconductivity and Its Applications, 2001, 362, 314-318. | 0.6 | 11 |
| 146 | Terahertz Optics in Strongly Correlated Electron Systems. , 0, , 271-330. | | 11 |
| 147 | Thickness dependence of the soft ferroelectric mode in SrTiO ₃ thin films deposited on MgO. Journal of Luminescence, 2008, 128, 998-1000. | 1.5 | 11 |
| 148 | A novel hot-electron transistor employing superconductor base. IEEE Transactions on Magnetics, 1987, 23, 1674-1677. | 1.2 | 10 |
| 149 | Liquid-phase epitaxial growth of Bi-2212 films using an infrared image furnace. Superconductor Science and Technology, 2001, 14, 1152-1155. | 1.8 | 10 |
| 150 | Direct observation of trapping of photo-excited carriers in Er,O-codoped GaAs. Physica B: Condensed Matter, 2006, 376-377, 556-559. | 1.3 | 10 |
| 151 | Laser terahertz emission microscopy. Comptes Rendus Physique, 2008, 9, 169-183. | 0.3 | 10 |
| 152 | Terahertz time-domain reflection spectroscopy for high-T _c superconducting cuprates. Physica C: Superconductivity and Its Applications, 2009, 469, 982-984. | 0.6 | 10 |
| 153 | Noncontact evaluation of nondoped InP wafers by terahertz time-domain spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2009, 26, A1. | 0.9 | 10 |
| 154 | Terahertz generation in quasi-phase-matching structure formed by a phase mask. Optics Letters, 2012, 37, 4155. | 1.7 | 10 |
| 155 | Nondestructive evaluation of crystallized-particle size in lactose-powder by terahertz time-domain spectroscopy. Optical Engineering, 2013, 53, 031203. | 0.5 | 10 |
| 156 | Parallel-Plate Waveguide Terahertz Time Domain Spectroscopy for Ultrathin Conductive Films. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 1182-1194. | 1.2 | 10 |
| 157 | Effect of Oxygen Adsorbates on Terahertz Emission Properties of Various Semiconductor Surfaces Covered with Graphene. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1117-1123. | 1.2 | 10 |
| 158 | Control of dipole properties in high- ϵ and SiO ₂ stacks on Si substrates with tricolor superstructure. Applied Physics Letters, 2018, 113, . | 1.5 | 10 |
| 159 | Terahertz Spectroscopy Tracks Proteolysis by a Joint Analysis of Absorptance and Debye Model. Biophysical Journal, 2020, 119, 2469-2482. | 0.2 | 10 |
| 160 | Electron-Cyclotron-Resonance Microwave Plasma Oxidation of Er ₁ Ba ₂ Cu ₃ O _y Superconductive Ceramics. Japanese Journal of Applied Physics, 1988, 27, L411-L413. | 0.8 | 9 |
| 161 | Characterization of $\hat{\mu}$ c-Si:H Films Prepared by H ₂ Sputtering. Japanese Journal of Applied Physics, 1990, 29, L385-L387. | 0.8 | 9 |
| 162 | Detection and storage of femtosecond laser pulse signals by optical magnetic-flux-generation in a YBCO thin film loop. IEEE Transactions on Applied Superconductivity, 1999, 9, 4467-4470. | 1.1 | 9 |

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|-----|---|-----|-----------|
| 163 | Comparison of the electromagnetic pulse emission from YBa ₂ Cu ₃ O _{7-x} and Y _{0.7} Pr _{0.3} Ba ₂ Cu ₃ O ₇ excited by femtosecond laser pulses. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1899-1900. | 0.6 | 9 |
| 164 | Optical Response in Amorphous GaAs Thin Films Prepared by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 6304-6308. | 0.8 | 9 |
| 165 | Detection of Pulsed Terahertz Waves Using High-Temperature Superconductor Josephson Junction. <i>Applied Physics Express</i> , 2010, 3, 042701. | 1.1 | 9 |
| 166 | Charge density wave excitations in stripe-type charge ordered Pr _{0.5} Sr _{0.5} MnO ₃ manganite. <i>Applied Physics Letters</i> , 2012, 101, . | 1.5 | 9 |
| 167 | Dielectric properties of (Ba,Sr)TiO ₃ thin films in MHz and THz frequency regions: Quantitative evaluation of the orientational polarization. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 09PD06. | 0.8 | 9 |
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