

Koji Suizu

List of Publications by Year in descending order

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58
all docs

58
docs citations

58
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Distance Measurement of a Frequency-Shifted Sub-Terahertz Wave Source. Photonics, 2022, 9, 128.	2.0	2
2	Measurement of Glass Complex Permittivity at 200-500 GHz for THz Propagation Simulation. , 2021, , .		5
3	Terahertz reflection imaging using virtual arrays and MUSIC in a synthetic aperture array. Japanese Journal of Applied Physics, 2021, 60, 072001.	1.5	4
4	A Study on THz Reflection Imaging of Two Metal Wires Using Compressed Sensing. , 2021, , .		1
5	THz wave imaging through layered dielectric using correlating synthesis method. Japanese Journal of Applied Physics, 2020, 59, 122003.	1.5	2
6	Terahertz imaging for multiple reflectors using time-domain correlating synthesis method. Japanese Journal of Applied Physics, 2018, 57, 122502.	1.5	3
7	Nondestructive measurement of layer structures in dielectric substrates by collimated terahertz time domain spectroscopy. IEICE Electronics Express, 2018, 15, 20180579-20180579.	0.8	2
8	Electromagnetic wave absorption properties of carbon nanocoil composites in the millimeter waveband. AIP Conference Proceedings, 2018, , .	0.4	5
9	Identification of periodic structure target using broadband polarimetry in terahertz radiation. IEICE Communications Express, 2018, 7, 266-271.	0.4	1
10	Terahertz Pulse Reflection Imaging Using the Time-Domain Correlating Synthesis Method. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 385-392.	3.1	10
11	Non-resonant frequency components observed in a dynamic Atomic Force Microscope. Nonlinear Theory and Its Applications IEICE, 2017, 8, 118-128.	0.6	4
12	Highly intense monocycle terahertz vortex generation by utilizing a Tsurupica spiral phase plate. Scientific Reports, 2016, 6, 38880.	3.3	33
13	Novel THz-wave detection technique via interaction between optical pumping waves and THz-wave generated by Cherenkov phase matching. , 2015, , .		0
14	Terahertz wave generation using type II phase matching polarization combination via difference frequency generation with LiNbO ₃ . Japanese Journal of Applied Physics, 2015, 54, 062202.	1.5	13
15	Real-time terahertz wave sensing via infrared detection interacted with evanescent terahertz waves. Optical Review, 2015, 22, 166-169.	2.0	2
16	Real-time THz-wave spectroscopy via infrared lights detection interacted with evanescent THz waves. , 2014, , .		0
17	Evaluation of polarized terahertz waves generated by Cherenkov phase matching. Applied Optics, 2014, 53, 1518.	1.8	7
18	Behavior of three waves in Cherenkov phase matched monochromatic terahertz wave generation investigated by numerical analysis. Japanese Journal of Applied Physics, 2014, 53, 092701.	1.5	1

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19	Widely tunable broadband terahertz radiation generation using a configurationally locked polyene 2-[3-(4-hydroxystyryl)-5,5-dimethylcyclohex-2-enylidene] malononitrile crystal via difference frequency generation. <i>Applied Physics B: Lasers and Optics</i> , 2013, 111, 489-493.	2.2	27
20	Cherenkov phase-matched terahertz wave generation and its spectroscopic applications. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
21	Broadband terahertz light source pumped by a 1 \hat{A} ¼m picosecond laser. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 321-326.	2.2	13
22	Broadband THz-wave generation by satisfying the noncollinear phase-matching condition with a reflected signal beam. <i>Applied Optics</i> , 2013, 52, 8305.	1.8	7
23	THz-wave sensing via pump and signal wave detection interacted with evanescent THz waves. <i>Optics Letters</i> , 2013, 38, 3687.	3.3	4
24	Entangled photon generation in two-period quasi-phase-matched parametric down-conversion. <i>Optics Express</i> , 2012, 20, 5508.	3.4	30
25	Improving the Laser-Induced-Damage Tolerance Characteristics of 4-Dimethylamino-N-methyl-4-stilbazoliumtosylate Crystals for THz Wave Generation by Annealing. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 022601.	1.5	6
26	Improving the Laser-Induced-Damage Tolerance Characteristics of 4-Dimethylamino-N-methyl-4-stilbazoliumtosylate Crystals for THz Wave Generation by Annealing. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 022601.	1.5	8
27	Efficient generation and electro-optic sampling detection of THz radiation using Cherenkov phase matching scheme. , 2011, , .		1
28	Non-destructive Characterization of Soot in Exhaust Filters Using Millimeter-wave Imaging. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 716-721.	2.2	14
29	Characteristics of the Beam-Steerable Difference-Frequency Generation of Terahertz Radiation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 603-617.	2.2	1
30	Half Cycle Terahertz Pulse Generation by Prism-Coupled Cherenkov Phase-Matching Method. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 1168-1177.	2.2	12
31	Efficient electro-optic sampling detection and generation of intense THz radiation via Cherenkov-type phase matching in a LiNbO ₃ crystal coupled to a Si prism. , 2011, , .		0
32	Widely Tunable Monochromatic Cherenkov Phase-Matched Terahertz Wave Generation from Bulk Lithium Niobate. <i>Applied Physics Express</i> , 2010, 3, 082201.	2.4	18
33	THz imaging techniques for nondestructive inspections. <i>Comptes Rendus Physique</i> , 2010, 11, 510-518.	0.9	82
34	Efficient Up-Conversion Detection of 1550 nm Photons Using Bulk Periodically-Poled LiNbO ₃ . <i>Japanese Journal of Applied Physics</i> , 2010, 49, 040213.	1.5	1
35	Prism-coupled Cherenkov phase-matched terahertz wave generation using a DAST crystal. <i>Optics Express</i> , 2010, 18, 3338.	3.4	27
36	Multi-Mode Laser-Pumped Injection-Seeded Terahertz-Wave Parametric Generator. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 102701.	1.5	5

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37	Efficient Cherenkov-Type Phase-Matched Widely Tunable Terahertz-Wave Generation via an Optimized Pump Beam Shape. Applied Physics Express, 2009, 2, 032302.	2.4	25
38	Terahertz generation and sensing/imaging applications. , 2009, , .		0
39	Generation of Cross-Polarized Photon Pairs via Type-II Third-Order Quasi-Phase Matched Parametric Down-Conversion. Japanese Journal of Applied Physics, 2009, 48, 050205.	1.5	2
40	Extremely frequency-widened terahertz wave generation using Cherenkov-type radiation. Optics Express, 2009, 17, 6676.	3.4	85
41	Cherenkov phase matched THz-wave generation with surfing configuration for bulk Lithium Niobate crystal. Optics Express, 2009, 17, 7102.	3.4	17
42	High-resolution time-of-flight terahertz tomography using a femtosecond fiber laser. Optics Express, 2009, 17, 7533.	3.4	133
43	Terahertz Sensing of Thin Poly(ethylene Terephthalate) Film Thickness Using a Metallic Mesh. Applied Physics Express, 2009, 2, 012301.	2.4	28
44	Strong Resonance and Terahertz Wave Transmission Enhancement of Low-Porosity Metal Hole Array with Bow-Tie-Shaped Apertures. Applied Physics Express, 2009, 2, 122302.	2.4	6
45	Monochromatic-Tunable Terahertz-Wave Sources Based on Nonlinear Frequency Conversion Using Lithium Niobate Crystal. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 295-306.	2.9	22
46	Broadband-Frequency-Tunable Sub-Terahertz Wave Generation Using an Optical Comb, AWGs, Optical Switches, and a Uni-Travelling Carrier Photodiode for Spectroscopic Applications. Journal of Lightwave Technology, 2008, 26, 2521-2530.	4.6	82
47	Cherenkov phase-matched monochromatic THzwave generation using difference frequency generation with a lithium niobate crystal. Optics Express, 2008, 16, 7493.	3.4	46
48	Generation and detection of broadband coherent terahertz radiation using 17-fs ultrashort pulse fiber laser. Optics Express, 2008, 16, 12859.	3.4	51
49	Terahertz-Wave Generation Using a 4-Dimethylamino-N-methyl-4-stilbazolium tosylate Crystal Under Intra-Cavity Conditions. Applied Physics Express, 2008, 1, 042002.	2.4	9
50	Development of Gas Sensing Technique Using Narrow-Linewidth Terahertz-Wave Source. IEEE Transactions on Electronics, Information and Systems, 2008, 128, 1714-1720.	0.2	2
51	800-nm Band Cross-Polarized Photon Pair Source Using Type-II Parametric Down-Conversion in Periodically Poled Lithium Niobate. Japanese Journal of Applied Physics, 2007, 46, L1064-L1067.	1.5	8
52	Pulsed High Peak Power Millimeter Wave Generation via Difference Frequency Generation Using Periodically Poled Lithium Niobate. Japanese Journal of Applied Physics, 2007, 46, L982-L984.	1.5	13
53	Random Frequency Accessible Broad Tunable Terahertz-Wave Source Using Phase-Matched 4-Dimethylamino-N-methyl-4-stilbazolium Tosylate Crystal. Japanese Journal of Applied Physics, 2007, 46, 7321.	1.5	106
54	High-power terahertz-wave generation using DAST crystal and detection using mid-infrared powermeter. Optics Letters, 2007, 32, 2885.	3.3	85

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55	Terahertz-wave generation in a conventional optical fiber. Optics Letters, 2007, 32, 2990.	3.3	29
56	Surface-Emitted Terahertz-Wave Difference-Frequency Generation in Periodically Poled Lithium Niobate Ridge-Type Waveguide. Japanese Journal of Applied Physics, 2006, 45, L367-L369.	1.5	12
57	Duty Ratio Dependence of Difference Frequency Generation for Millimeter-Wave Terahertz Wave Spectra Using Periodically Poled Lithium Niobate. Applied Physics Express, 0, 2, 072301.	2.4	0
58	Terahertz Beam Steering via Tilted-Phase Difference-Frequency Mixing. Applied Physics Express, 0, 2, 022301.	2.4	7