Hiroaki Minamide

List of Publications by Year
in descending order

68	1,405	304368	329751
papers	citations	22 h-index	37 g-index

69	69	69	704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical up-conversion-based cross-correlation for characterization of sub-nanosecond terahertz-wave pulses. Optics Express, 2022, 30, 11217.	1.7	7
2	Incident-Angle-Dependent Extraordinary Transmission of the Terahertz Bullâ€™s-Eye Structure. Physical Review Applied, 2022, 17, .	1.5	6
3	Carbon nanotube-based, serially connected terahertz sensor with enhanced thermal and optical efficiencies. Science and Technology of Advanced Materials, 2022, 23, 424-433.	2.8	12
4	Electromagnetic Wave Tunneling from Metamaterial Antiparallel Dipole Resonance. Advanced Photonics Research, 2021, 2, 2000186.	1.7	1
5	Fast terahertz detection by asymmetric dual-grating-gate graphene FET. , 2021, , .		1
6	1-THz plasmonic double-mixing in a dual-grating-gate high-electron- mobility transistor. , 2021, , .		0
7	Injection-seeded terahertz-wave parametric generator with timing stabilized excitation for nondestructive testing applications. Review of Scientific Instruments, 2021, 92, 093002.	0.6	3
8	Over 200 W Peak-Power Cascaded Backward Terahertz-Wave Parametric Oscillator at 0.3 THz. , 2021, , .		0
9	Terahertz Detection by an Asymmetric Dual-Grating-Gate Graphene FET. , 2021, , .		1
10	Sensitive terahertz-wave detector responses originated by negative differential conductance of resonant-tunneling-diode oscillator. Applied Physics Letters, 2020, 117, .	1.5	23
11	Actively tunable THz filter based on an electromagnetically induced transparency analog hybridized with a MEMS metamaterial. Scientific Reports, 2020, 10, 20807.	1.6	42
12	Injection-seeded backward terahertz-wave parametric oscillator. APL Photonics, 2020, 5, .	3.0	16
13	Frequency-agile injection-seeded terahertz-wave parametric generation: publisherâ€™s note. Optics Letters, 2020, 45, 627.	1.7	1
14	Terahertz-wave generation from surface phonons at forbidden frequencies of lithium niobate. IEICE Electronics Express, 2020, 17, 20200133-20200133.	0.3	1
15	Gate-Readout of Photovoltage from a Grating-Gate Plasmonic THz Detector. , 2020, , .		6
16	Terahertz differential absorption spectroscopy using multifurcated subnanosecond microchip laser. Applied Physics Letters, 2019, 115, 121102.	1.5	8
17	Tunable Backward Terahertz-wave Parametric Oscillation. Scientific Reports, 2019, 9, 726.	1.6	29
18	Sensitivity Measurement of Resonant-Tunneling-Diode Terahertz Detectors. , 2019, , .		1

#	Article	IF	Citations
19	Characterizing Depth Resolution and Range of a Swept-Source THz OCT. , 2019, , .		1
20	Terahertz Differential Absorption Spectroscopy Using Multi-Furcated Nd:YAG Microchip Laser for Gas Sensing. , 2019, , .		0
21	DIfferential Frequency-domain Absorption Spectrometer in the TErahertz Region (DI-FASTER) for Fast Gas Sensing. , 2018, , .		1
22	Measurement of Coupling Properties of Free Space Terahertz-Wave to Surface Plasmon Resonator. , 2018, , .		0
23	High-average and high-peak output-power terahertz-wave generation by optical parametric down-conversion in MgO:LiNbO3. Applied Physics Letters, 2018, 113, .	1.5	24
24	Phase Singularities in MoirÃ© Type Metasurfaces. , 2018, , .		0
25	High-Brightness and Continuously Tunable Terahertz-Wave Generation. , 2018, , .		2
26	Semiconductor property imaging on as-grown wafer with monochromatic tunable THz-wave source. Review of Scientific Instruments, 2018, 89, 073701.	0.6	2
27	Frequency-domain spectroscopy using high-power tunable THz-wave sources: towards THz sensing and detector sensitivity calibration. Proceedings of SPIE, 2017, , .	0.8	6
28	Terahertz-wave differential detection based on simultaneous dual-wavelength up-conversion. AIP Advances, 2017, 7, 035020.	0.6	7
29	Design and Fabrication of Terahertz Detectors Based on 180-nm CMOS Process Technology. , 2017, , .		0
30	Effective Terahertz Wave Parametric Generation Depending on the Pump Pulse Width Using a LiNbO3 Crystal. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 617-620.	2.0	24
31	High-Repetition-Rate, widely tunable, injection-seeded terahertz-wave parametric generator. , 2017, , .		0
32	Nonlinear optical detection of terahertz-wave radiation from resonant tunneling diodes. Optics Express, 2017, 25, 5389.	1.7	23
33	Nonlinear optical detection of terahertz-wave radiation from resonant-tunneling-diode oscillators. , 2017, , .		0
34	Fabrication of MEMS-driven Wire Grid Polarizers in THz Region and Evaluation of the Optical Characteristics. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 407-414.	0.0	3
35	LiNbO3 Crystal for Exploring Terahertz Electromagnetic-Wave Region. The Review of Laser Engineering, 2017, 45, 757.	0.0	0
36	Simultaneous Nonlinear Up-Conversion of Dual-Frequency Terahertz-Wave Radiation. , 2017, , .		0

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37	Design and Fabrication of Terahertz Detectors Based on 180-nm CMOS Process Technology. International Journal of High Speed Electronics and Systems, 2016, 25, 1640014.	0.3	1
38	Accurate Characterization of Resonant Samples in the Terahertz Regime Through a Technique Combining Time-Domain Spectroscopy and Kramersâ€“Kronig Analysis. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 442-450.	2.0	17
39	Terahertz-wave parametric gain of stimulated polariton scattering. Physical Review A, 2016, 93, .	1.0	29
40	High-Brightness Continuously Tunable Narrowband Subterahertz Wave Generation. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 858-861.	2.0	25
41	Broadband characteristics of ultrahigh responsivity of asymmetric dual-grating-gate plasmonic terahertz detectors. , 2015, , .		1
42	Real-time Terahertz-wave imaging based on nonlinear optical up-conversion. , 2015, , .		0
43	A terahertz wave parametric amplifier with 55dB gain. , 2014, , .		0
44	THz Parametric Amplifier Using LiNbO3 Crystal. , 2014, , .		0
45	Bridging a few terahertz to tens of terahertz: Inspection on a cost-effective, room-temperature operated measurement system based on frequency conversion via 4-dimethylamino-Nâ€²-methyl-4â€²-stilbazolium tosylate crystal. Applied Physics Letters, 2014, 104, 031110.	1.5	5
46	Kilowatt-peak Terahertz-wave Generation and Sub-femtojoule Terahertz-wave Pulse Detection Based on Nonlinear Optical Wavelength-conversion at Room Temperature. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 25-37.	1.2	79
47	Detection of high intensity thz radiation by field effect transistors. , 2014, , .		0
48	A High Dynamic Range and Spectrally Flat Terahertz Spectrometer Based on Optical Parametric Processes in LiNbO<formula formulatype="inline"><tex Notation="TeX">$_{3}$</tex></formula>. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 523-526.	2.0	31
49	The Need of Terahertz Cameras for Standardizing Sensitivity Measurements. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 671-685.	1.2	67
50	Ultrabright continuously tunable terahertz-wave generation at room temperature. Scientific Reports, 2014, 4, 5045.	1.6	185
51	InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. IEEE Sensors Journal, 2013, 13, 89-99.	2.4	69
52	Pump-beam-induced optical damage depended on repetition frequency and pulse width in 4-dimethylamino-Nâ€‰â€²-methyl-4â€²-stilbazolium tosylate crystal. Applied Physics Letters, 2013, 103, 023302.	1.5	8
53	Ultrahigh Sensitive Plasmonic Terahertz Detection Using Asymmetric Dual-Grating Gate HEMT Structures. , 2012, , .		0
54	Ultrahigh sensitive plasmonic terahertz detector based on an asymmetric dual-grating gate HEMT structure. Solid-State Electronics, 2012, 78, 109-114.	0.8	71

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55	High-power, single-longitudinal-mode terahertz-wave generation pumped by a microchip Nd:YAG laser [Invited]. Optics Express, 2012, 20, 2881.	1.7	82
56	Frequency-agile terahertz-wave sources and applications to sensitive diagnosis of semiconductor wafers. Proceedings of SPIE, 2011, , .	0.8	3
57	Biomedical diagnosis in water concentration of thin biotissues using tunable THz-wave parametric oscillator. , 2011, , .		0
58	Frequency-agile terahertz-wave generation and detection using a nonlinear optical conversion, and their applications for imaging. Comptes Rendus Physique, 2010, 11, 457-471.	0.3	6
59	High-sensitivity detection of terahertz waves using nonlinear up-conversion in an organic 4-dimethylamino-N-methyl-4-stilbazolium tosylate crystal. Applied Physics Letters, 2010, 97, .	1.5	36
60	Study of water concentration measurement in thin tissues with terahertz-wave parametric source. Optics Express, 2010, 18, 15504.	1.7	28
61	New method to determine the refractive index and the absorption coefficient of organic nonlinear crystals in the ultra-wideband THz region. Optics Express, 2010, 18, 17306.	1.7	32
62	Frequency-agile terahertz-wave parametric oscillator in a ring-cavity configuration. Review of Scientific Instruments, 2009, 80, 123104.	0.6	39
63	Highly sensitive coherent detection of terahertz waves at room temperature using a parametric process. Applied Physics Letters, 2008, 93, .	1.5	63
64	WIDE RANGE DETECTOR USING PARABOLIC CYLINDRICAL MIRROR FOR THz APPLICATIONS. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 199-210.	0.6	5
65	THz-wave parametric oscillator with a surface-emitted configuration. Optics Express, 2006, 14, 1604.	1.7	103
66	Widely-tunable, confocal coherent anti-Stokes Raman spectrometer for THz-frequency modes in biomolecules. , 2006, , .		0
67	Achromatically injection-seeded terahertz-wave parametric generator. Optics Letters, 2002, 27, 2173.	1.7	57
68	Arrayed silicon prism coupler for a terahertz-wave parametric oscillator. Applied Optics, 2001, 40, 1423.	2.1	112