Hartmut G Roskos

List of Publications by Year
in descending order

366	10,345	44069	40979
papers	citations	48 h-index	93 g-index

370	370	370	5457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Can a terahertz metamaterial sensor be improved by ultra-strong coupling with a high-Q photonic resonator?. Optics Express, 2022, 30, 13659.	3.4	11
2	Roadmap of Terahertz Imaging 2021. Sensors, 2021, 21, 4092.	3.8	143
3	Antenna-coupled field-effect transistors as detectors for terahertz near-field microscopy. Nanoscale Advances, 2021, 3, 1717-1724.	4.6	16
4	Strong coupling of a plasmonic dark mode with photons in a photonic crystal cavity. , 2021, , .		0
5	High-harmonic generation from weakly p-doped Si pumped with intense THz pulses. , 2021, , .		2
6	Modeling the THz response of antenna-coupled Silicon MOSFETs. , 2021, , .		0
7	Fifth-harmonic generation in Si:B pumped with intense terahertz pulses. , 2021, , .		0
8	Quantitative determination of the density of photo-excited charge carriers by s-SNOM with field-effect-transistor-based THz detection. , 2021, , .		0
9	Dual substrate lenses on TeraFET detector enable Fourier imaging based on sub-harmonic detection at 600 GHz. , 2021, , .		0
10	Strong interaction between two photons and a plasmon of a complementary metamaterial in a terahertz dual cavity. Optics Express, 2021, 29, 42420.	3.4	15
11	Terahertz scattering-type near-field microscopy quantitatively determines the conductivity and charge carrier density of optically doped and impurity-doped silicon. APL Photonics, 2021, 6, .	5.7	7
12	Passive Detection and Imaging of Human Body Radiation Using an Uncooled Field-Effect Transistor-Based THz Detector. Sensors, 2020, 20, 4087.	3.8	27
13	Intracavity third-harmonic generation in Si:B pumped by intense terahertz pulses. Physical Review B, 2020, 102, .	3.2	21
14	Direct nanoscopic observation of plasma waves in the channel of a graphene field-effect transistor. Light: Science and Applications, 2020, 9, 97.	16.6	29
15	Resolution enhancement of THz imaging based on Fourier-space spectrum detection. , 2020, , .		4
16	THz emission from semiconductors using excitation by a tilted pulse front. , 2020, , .		1
17	Terahertz photoconductive waveguide emitter with excitation by a tilted optical pulse front. Optics Express, 2020, 28, 33673.	3.4	3
18	THz Fourier Imaging Based on Sub-harmonic Heterodyne Detection. , 2020, , .		1

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19	Optical Performance of Liquid Nitrogen Cooled Transistor-Based THz Detectors. , 2020, , .		0
20	Strong coupling of two photons with a metamaterial plasmon in a terahertz cavity. , 2020, , .		0
21	Distinction of the thermoelectric effect in graphene FET THz detectors. , 2020, , .		1
22	Completely Passive Room-Temperature Imaging of Human Body Radiation Below 1 THz with Field-Effect Transistors. , 2020, , .		0
23	3D Fourier imaging based on 2D heterodyne detection at THz frequencies. APL Photonics, 2019, 4, .	5.7	25
24	A High-Sensitivity AlGaN/GaN HEMT Terahertz Detector With Integrated Broadband Bow-Tie Antenna. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 430-444.	3.1	90
25	Design and demonstration of antenna-coupled Schottky diodes in a foundry complementary metal-oxide semiconductor technology for electronic detection of far-infrared radiation. Journal of Applied Physics, 2019, 125, 194501.	2.5	11
26	Enhancement of the Monolayer Tungsten Disulfide Exciton Photoluminescence with a Two-Dimensional Material/Air/Gallium Phosphide In-Plane Microcavity. ACS Nano, 2019, 13, 5259-5267.	14.6	21
27	Terahertz emission from biased AlGaN/GaN high-electron-mobility transistors. Journal of Applied Physics, 2019, 125, 151614.	2.5	9
28	Dynamic-range Enhancement of Heterodyne THz Imaging by the Use of a Soft Paraffin-wax Substrate Lens on the Detector. , 2019, , .		4
29	Terahertz Imaging Based on Coherent Detection of the Fourier-Space Spectrum. , 2019, , .		0
30	Circuit-Based Hydrodynamic Modeling of AlGaN/GaN HEMTs. , 2019, , .		6
31	Unveiling the plasma wave in the channel of graphene field-effect transistor. , 2019, , .		0
32	Coherent Coupled-Mode Phonon Emission in a Photoexcited Charge-Density-Wave System. , 2019, , .		0
33	Generation of a guided mode in a THz semiconductor waveguide using excitation by a tilted optical pulse front. , 2019, , .		0
34	Polarization and sectioning characteristic of THz confocal microscopy. , 2019, , .		0
35	Sliver Nanowire Surface Plasmon Polaritons enhancement in Terahertz Nanodevices. , 2019, , .		0
36	Cavity enhanced third-harmonic generation in Si:B pumped with intense terahertz pulses. , 2019, , .		0

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37	Direct Near-Field Observation of Surface Plasmon Polaritons on Silver Nanowires. ACS Omega, 2019, 4, 21962-21966.	3.5	13
38	TeraFET multi-pixel THz array for a confocal imaging system. , 2019, , .		4
39	Coherent photo-induced phonon emission in the charge-density-wave state of K_{0.3}MoO₃. New Journal of Physics, 2019, 21, 013013.	2.9	2
40	Correction to â€œBroadband Terahertz Power Detectors Based on 90-nm Silicon CMOS Transistors With Flat Responsivity Up to 2.2 THzâ€•[Sep 18 1413-1416]. IEEE Electron Device Letters, 2019, 40, 354-354.	3.9	0
41	Terahertz Detection With a Low-Cost Packaged GaAs High-Electron-Mobility Transistor. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 27-37.	3.1	12
42	300-GHz in-line holography with high dynamic range. , 2019, , .		1
43	Fourier imaging with CW terahertz waves. , 2019, , .		1
44	300-GHz holography with heterodyne detection. , 2019, , .		4
45	Nonlocal collective ultrastrong interaction of plasmonic metamaterials and photons in a terahertz photonic crystal cavity. Optics Express, 2019, 27, 24455.	3.4	19
46	Terahertz quantitative metrology using 300 GHz in-line digital holography. , 2019, , .		0
47	Field-effect transistors as electrically controllable nonlinear rectifiers for the characterization of terahertz pulses. APL Photonics, 2018, 3, .	5.7	21
48	Dielectric properties of vertically aligned multi-walled carbon nanotubes in the terahertz and mid-infrared range. Journal Physics D: Applied Physics, 2018, 51, 034004.	2.8	11
49	Imaging and Spectroscopic Sensing with Low-Repetition-Rate Terahertz Pulses and GaN TeraFET Detectors. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 262-272.	2.2	10
50	Anisotropic excitation of surface plasmon polaritons on a metal film by a scattering-type scanning near-field microscope with a non-rotationally-symmetric probe tip. Nanophotonics, 2018, 7, 269-276.	6.0	26
51	Direct near-field mapping of nano-sphere-excited leaky surface modes atanisotropic metasurface. Journal of Physics: Conference Series, 2018, 1092, 012165.	0.4	0
52	THz Detection with Field-Effect Transistors: The Role of Plasma Waves and of Thermoelectric Contributions. , 2018, , .		1
53	Near-Field Observation of Guided-Mode Resonances on a Metasurface via Dielectric Nanosphere Excitation. ACS Photonics, 2018, 5, 4238-4243.	6.6	4
54	Ultrabroadband Terahertz Detectors Based on CMOS Field-Effect Transistors with Integrated Antennas. , 2018, , .		1

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55	Field-Effect Transistor Based Detectors for Power Monitoring of THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 613-621.	3.1	30
56	Sub-picosecond pulsed THz FET detector characterization in plasmonic detection regime based on autocorrelation technique. Semiconductor Science and Technology, 2018, 33, 124013.	2.0	14
57	Broadband Terahertz Power Detectors Based on 90-nm Silicon CMOS Transistors With Flat Responsivity Up to 2.2 THz. IEEE Electron Device Letters, 2018, 39, 1413-1416.	3.9	67
58	Towards gas sensing with vertically aligned carbon nanotubes interrogated by THz radiation pulses. Lithuanian Journal of Physics, 2018, 58, .	0.4	5
59	Efficient detection of short-pulse THz radiation with field effect transistors. , 2017, , .		1
60	Thermal noise-limited sensitivity of FET-based terahertz detectors. , 2017, , .		11
61	Phase-channel dynamics reveal the role of impurities and screening in a quasi-one-dimensional charge-density wave system. Scientific Reports, 2017, 7, 2039.	3.3	14
62	Hydrodynamic modelling of terahertz rectification in AlGaN/GaN high electron mobility transistors. Journal of Physics: Conference Series, 2017, 906, 012023.	0.4	8
63	Efficient Detection of 3 THz Radiation from Quantum Cascade Laser Using Silicon CMOS Detectors. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1183-1188.	2.2	15
64	Enhanced performance of AlGaN/GaN HEMT-Based THz detectors at room temperature and at low temperature. , 2017, , .		5
65	TeraFET detector for measuring power fluctuations of 4.75-THz QCL-generated radiation. , 2017, , .		2
66	Optimization of the Design of Terahertz Detectors Based on Si CMOS and AlGaN/GaN Field-Effect Transistors. , 2017, , .		0
67	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. Optics Express, 2016, 24, 15261.	3.4	8
68	Design and analysis of a perfect metamaterial absorber for sub-terahertz frequencies. AIP Conference Proceedings, 2016, , .	0.4	1
69	Real-time detection of the THz pulses from a THz OPO using AlGaN/GaN TeraFETs. , 2016, , .		0
70	Optimization of the Design of Terahertz Detectors Based on Si CMOS and AlGaN/GaN Field-Effect Transistors. International Journal of High Speed Electronics and Systems, 2016, 25, 1640013.	0.7	12
71	Terahertz emission from large AlGaN/GaN field-effect transistors. , 2016, , .		0
72	0.25- GaN TeraFETs Optimized as THz Power Detectors and Intensity-Gradient Sensors. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 348-350.	3.1	37

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73	The potential for sensitivity enhancement by the thermoelectric effect in carbon-nanotube and graphene Tera-FETs. Journal of Physics: Conference Series, 2015, 647, 012004.	0.4	11
74	Relativistic Doppler reflection as a probe for the initial relaxation of a non-equilibrium electron-hole plasma in silicon. Journal of Physics: Conference Series, 2015, 647, 012016.	0.4	1
75	High-sensitivity wideband THz detectors based on GaN HEMTs with integrated bow-tie antennas. , 2015, , .		20
76	Terahertz rectification by plasmons and hot carriers in gated 2D electron gases. , 2015, , .		6
77	Ultrafast dynamic conductivity and scattering rate saturation of photoexcited charge carriers in silicon investigated with a midinfrared continuum probe. Physical Review B, 2015, 91, .	3.2	19
78	How good would the conductivity of graphene have to be to make single-layer-graphene metamaterials for terahertz frequencies feasible?. Carbon, 2015, 94, 301-308.	10.3	42
79	Camera for High-Speed THz Imaging. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 986-997.	2.2	40
80	Relativistic Doppler frequency up-conversion of terahertz pulses via reflection from photo-induced plasma fronts in solid-state media. , 2015, , .		0
81	Relativistic Doppler frequency up-conversion and probing the initial relaxation of a non-equilibrium electron-hole plasma in silicon. , 2015, , .		0
82	20 μm gate width CVD graphene FETs for 0.6 THz detection. , 2014, , .		1
83	A stitched 24×24 field-effect transistor detector array and low-noise readout electronics for real-time imaging at 590 GHz. , 2014, , .		0
84	Terahertz edge detection with antenna-coupled field-effect transistors in 0.25 μm AlGaN/GaN technology. , 2014, , .		1
85	9.74-THz electronic Far-Infrared detection using Schottky barrier diodes in CMOS. , 2014, , .		17
86	Terahertz Detection with Field-effect Transistors: Intrinsic versus Device Sensitivity Limits. , 2014, , .		1
87	Antenna-coupled field-effect transistors for multi-spectral terahertz imaging up to 425 THz. Optics Express, 2014, 22, 19235.	3.4	131
88	Relativistic Doppler frequency upconversion of terahertz pulses reflecting from a photoinduced plasma front in silicon. Physical Review B, 2014, 90, .	3.2	19
89	Terahertz detection at 240 GHz with a semiconducting carbon-nanotube field-effect transistor. , 2014, , .		0
90	Subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs field effect transistor. , 2014, , .		0

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91	Exploration of Terahertz Imaging with Silicon MOSFETs. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 63-80.	2.2	80
92	Antenna-Integrated 0.6 THz FET Direct Detectors Based on CVD Graphene. Nano Letters, 2014, 14, 5834-5838.	9.1	219
93	THz Active Imaging Systems with Real-Time Capabilities. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 153-187.	0.3	10
94	Heterodyne and subharmonic mixing at 0.6â€‰THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. Applied Physics Letters, 2013, 103, 093505.	3.3	15
95	Spatio-spectral characteristics of ultra-broadband THz emission from two-colour photoexcited gas plasmas and their impact for nonlinear spectroscopy. New Journal of Physics, 2013, 15, 075023.	2.9	67
96	Real-time CMOS terahertz camera employing plane-to-plane imaging with a focal-plane array of field-effect transistors. , 2013, , .		7
97	Scalable, monolythically-integrated detectors for THz imaging. , 2013, , .		0
98	A study on scaling behavior of responsivity and low frequency noise of Si MOSFET-based terahertz detectors. , 2013, , .		0
99	Terahertz frequency upconversion via relativistic Doppler reflection from a photoinduced plasma front in a solid-state medium. Physical Review B, 2013, 87, .	3.2	22
100	Terahertz responsivity and low-frequency noise in biased silicon field-effect transistors. Applied Physics Letters, 2013, 102, 153505.	3.3	145
101	Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_{T}. IEEE Sensors Journal, 2013, 13, 124-132.	4.7	52
102	Optimized Tera-FET detector performance based on an analytical device model verified up to 9 THz. , 2013, , .		4
103	Broadband terahertz spectroscopy: principles, fundamental research and potential for industrial applications. European Journal of Physics, 2013, 34, S179-S199.	0.6	42
104	Terahertz array imagers: towards the implementation of terahertz cameras with plasma-wave-based silicon MOSFET detectors. , 2013, , 231-271.		7
105	Optimization of single-cycle terahertz generation in LiNbO_3 for sub-50 femtosecond pump pulses. Optics Express, 2013, 21, 6826.	3.4	36
106	Foundry-processed detector arrays for terahertz spectroscopy and real-time imaging applications. , 2013, , .		0
107	Spectrally resolved beam profiles of the ultra-broadband THz-midinfrared emission from a two-color-excited gas plasma. , 2013, , .		0
108	Role of growth morphology on the terahertz response of vertically aligned carbon nanotubes. , 2013, , .		0

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109	Responsivity at 0.27 THz of a heterostructure field effect transistor detector in a quasi-optical package. , 2013, , .		0
110	Sub-harmonic mixing at 591 GHz in AlGaAs/InGaAs two-dimensional electron gas transistors. , 2013, , .		0
111	Recovery of ultra-broadband terahertz pulses from sum-frequency spectrograms using a generalized deconvolution method. EPJ Web of Conferences, 2013, 41, 09011.	0.3	5
112	Broadside-coupled triangular split-ring-resonators for terahertz sensing. EPJ Applied Physics, 2013, 61, 30402.	0.7	22
113	Towards monolithically integrated CMOS cameras for active imaging with 600 GHz radiation. Proceedings of SPIE, 2012, , .	0.8	4
114	CMOS detector arrays in a virtual 10-kilopixel camera for coherent terahertz real-time imaging. Optics Letters, 2012, 37, 536.	3.3	62
115	Terahertz Sensing and Imaging with Silicon Field-Effect Transistors up to 9 THz. , 2012, , .		3
116	CMOS detector arrays for coherent THz imaging: From point-to-point towards plane-to-plane imaging configurations. , 2012, , .		1
117	Heterodyne and spectroscopic room temperature terahertz imaging using InGaAs bow-tie diodes. , 2012, , .		1
118	Terahertz sensing application by using planar split-ring-resonator structures. Microsystem Technologies, 2012, 18, 2071-2076.	2.0	43
119	CMOS integrated antenna-coupled field-effect-transistors for the detection of 0.2 to 4.3 THz. , 2012, , .		10
120	THz frequency up-shift due to Doppler reflection from a moving plasma front in semiconductor media. , 2012, , .		0
121	Low frequency noise characterisation of biased silicon CMOS terahertz detectors. , 2012, , .		0
122	Terahertz detection and coherent imaging from 0.2 to 4.3 THz with silicon CMOS field-effect transistors. , 2012, , .		5
123	Detectors for terahertz multi-pixel coherent imaging and demonstration of real-time imaging with a 12x12-pixel CMOS array. Proceedings of SPIE, 2012, , .	0.8	11
124	Electric field distribution in biased GaAs microstructures with field-pinning layers. Superlattices and Microstructures, 2012, 52, 1143-1154.	3.1	2
125	CMOS Integrated Antenna-Coupled Field-Effect Transistors for the Detection of Radiation From 0.2 to 4.3 THz. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3834-3843.	4.6	232
126	Detection of 639-GHz radiation by sub-harmonic mixing in CMOS field-effect transistors. , 2012, , .		0

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127	All-electronic terahertz imaging: Planar emitters and detectors at 220 GHz in CMOS technology. , 2012, , .		1
128	DESIGN OF A TERAHERTZ POLARIZATION ROTATOR BASED ON A PERIODIC SEQUENCE OF CHIRAL-METAMATERIAL AND DIELECTRIC SLABS. Progress in Electromagnetics Research, 2012, 124, 301-314.	4.4	55
129	Dual-band polarization-independent sub-terahertz fishnet metamaterial. Current Applied Physics, 2012, 12, 443-450.	2.4	33
130	Terahertz responsivity enhancement and low-frequency noise study in silicon CMOS detectors using a drain current bias. , 2011, , .		2
131	Terahertz heterodyne detection and imaging with the InGaAs bow-tie diode. , 2011, , .		0
132	Silicon CMOS-transistor-based detection up to 4.25 THz. , 2011, , .		5
133	Coherent terahertz radiation from TTF-TCNQ films irradiated with optical pulses. , 2011, , .		0
134	Properties of the InGaAs bow-tie diode arrays for room temperature terahertz detection. , 2011, , .		0
135	Coherent detection methods for ultra-broadband THz pulses from a laser-induced air plasma. , 2011, , .		1
136	Terahertz polarization rotator consists of chiral metamaterial and dielectric slabs. , 2011, , .		1
137	Dual-band polarization-independent fishnet metamaterial for terahertz frequency range. , 2011, , .		1
138	Performance and performance variations of sub-1â€…THz detectors fabricated with 0.15â€…[micro sign]m CMOS foundry process. Electronics Letters, 2011, 47, 661.	1.0	62
139	Experimental demonstration of efficient pulsed terahertz emission from a stacked GaAs/AlGaAs p-i-n-i heterostructure. Applied Physics Letters, 2011, 98, .	3.3	16
140	Terahertz heterodyne imaging with InGaAs-based bow-tie diodes. Applied Physics Letters, 2011, 99, .	3.3	53
141	Terahertz propagation through free-standing woven-steel-mesh metamaterials. , 2011, , .		0
142	Key factors in achieving ultra-broadband THz emission from a laser-induced gas plasma. , 2011, , .		0
143	THz Active Imaging Systems With Real-Time Capabilities. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 183-200.	3.1	224
144	Numerical and experimental investigation of fishnet-based metamaterial in a X-band waveguide. Journal Physics D: Applied Physics, 2011, 44, 255101.	2.8	25

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145	Silicon CMOS-based THz detection. , 2011, , .		6
146	Terahertz propagation properties of free-standing woven-steel-mesh metamaterials: Pass-bands and signatures of abnormal group velocities. Journal of Applied Physics, 2011, 110, .	2.5	15
147	Strong Electric Field Driven Carrier Transport Non-Linearities in n-Type GaAs/AlGaAs Superlattices. Acta Physica Polonica A, 2011, 119, 167-169.	0.5	1
148	Coherent electro-optical detection of nanosecond THz pulses from a parametric oscillator. , 2010, , .		0
149	Terahertz responsivity enhancement of silicon CMOS transistor-based detectors using a current bias. , 2010, , .		0
150	Active video-rate camera with up to 32 detector-pixels at 812 GHz. , 2010, , .		0
151	Hybrid Continuous-Wave Demodulating Multipixel Terahertz Imaging Systems. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2022-2026.	4.6	6
152	Terahertz heterodyne detection with silicon field-effect transistors. Applied Physics Letters, 2010, 96, .	3.3	98
153	Illumination Aspects in Active Terahertz Imaging. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2008-2013.	4.6	37
154	Redox-Active Ferrocenylboronium Polyelectrolytes with Main Chain Charge-Transfer Structure. Macromolecules, 2010, 43, 5256-5261.	4.8	27
155	Phase-locking of the beat signal of two distributed-feedback diode lasers to oscillators working in the MHz to THz range. Optics Express, 2010, 18, 8621.	3.4	45
156	Coherent electro-optical detection of terahertz radiation from an optical parametric oscillator. Optics Express, 2010, 18, 11316.	3.4	14
157	Terahertz white-light pulses from an air plasma photo-induced by incommensurate two-color optical fields. Optics Express, 2010, 18, 23173.	3.4	211
158	Extreme-bandwidth THz pulses from laser-generated air plasmas. , 2010, , .		0
159	Pump/probe THz spectroscopy of the conductivity of TTF-TCNQ films. , 2010, , .		2
160	CCD-camera-based electro-optical detection of nanosecond THz pulses from an optical parametric oscillator. , 2010, , .		0
161	THz pulse propagation through woven-steel-mesh metamaterials. , 2010, , .		0
162	Terahertz Bandwidths Extending to 100 THz from a Two-Color-Photoinduced Air Plasma. , 2010, , .		0

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163	Efficient distributed self-mixing in silicon CMOS transistors. , 2009, , .		1
164	A CMOS focal-plane array for heterodyne terahertz imaging. , 2009, , .		24
165	Coherent terahertz imaging with synchronized distributed-feedback diode lasers. , 2009, , .		0
166	Fast active THz-camera with global illumination. , 2009, , .		4
167	Magnetic-field-enhanced transient and stationary drift currents of oscillating Bloch electrons in superlattices and limits of average-particle description in relation to Monte Carlo simulations. Physical Review B, 2009, 80, .	3.2	4
168	Multi-pixel continuous-wave THz-imaging by electro-optic sampling using a photonic-mixer-device camera. , 2009, , .		0
169	Active THz imaging system with improved frame rate. , 2009, , .		4
170	Fast active THz camera with range detection by frequency modulation. Proceedings of SPIE, 2009, , .	0.8	7
171	Synthesis, Structure, Photoluminescence and Photoreactivity of 2,3â€Diphenylâ€4â€neopentylâ€1â€silacyclobutâ€2â€enes. Chemistry - A European Journal, 2009, 15, 8625-8645.	5.3	13
172	Fast Active THz Cameras with Ranging Capabilities. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1281.	2.2	44
173	Terahertz Imaging Detectors in CMOS Technology. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1269.	2.2	41
174	A 0.65 THz Focal-Plane Array in a Quarter-Micron CMOS Process Technology. IEEE Journal of Solid-State Circuits, 2009, 44, 1968-1976.	5.4	359
175	Terahertz heterodyne detection with silicon CMOS transistors. , 2009, , .		4
176	High signal-to-noise-ratio electro-optical terahertz imaging system based on an optical demodulating detector array. Optics Letters, 2009, 34, 3424.	3.3	19
177	Characterizing large-area electro-optic crystals toward two-dimensional real-time terahertz imaging. Applied Optics, 2009, 48, 5197.	2.1	7
178	Rational design of high-responsivity detectors of terahertz radiation based on distributed self-mixing in silicon field-effect transistors. Journal of Applied Physics, 2009, 105, .	2.5	291
179	Terahertz imaging with Si MOSFET focal-plane arrays. , 2009, , .		41
180	Quasioptical system design. , 2009, , .		2

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181	Concept of internal mixing in semiconductor lasers and optical amplifiers for room-temperature generation of tunable continuous terahertz waves. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1968-1970.	2.7	1
182	Electron ensemble coherence and terahertz radiation amplification in a cascade superlattice structure. Microelectronics Journal, 2008, 39, 624-627.	2.0	2
183	Terahertz imaging with GaAs field-effect transistors. Electronics Letters, 2008, 44, 408.	1.0	54
184	Diagnosing water content in paper by terahertz radiation. Optics Express, 2008, 16, 9060.	3.4	123
185	Terahertz profilometry at 600 GHz with 05 Î¼m depth resolution. Optics Express, 2008, 16, 11289.	3.4	44
186	Examining the terahertz signal from a photoexcited biased semiconductor superlattice for evidence of gain. Applied Physics Letters, 2008, 93, 021122.	3.3	6
187	BerÃ¼hrungsfreie PrÃ¼fung von MaterialoberflÃ¤chen mit THz-Strahlung (Contactless Testing of the) Tj ETQq1 1 0.784314 rgBT /Ove	0.7	2
188	Development of a hybrid THz camera using synchronized two-color laser radiation. , 2008, , .		0
189	Few-Cycle Laser Pulses: The Carrier-Envelope Phase, Its Role in the THz Emission from Laser-Generated Plasmas and a New Way to Measure It. Acta Physica Polonica A, 2008, 113, 769-776.	0.5	3
190	CARRIER-DENSITY DEPENDENCE OF THE EXCHANGE COUPLING BETWEEN MAGNETIC IONS AND CONDUCTION BAND ELECTRONS IN HEAVILY n-TYPE Zn(1-x)MnxSe AND OPTICALLY PUMPED Cd(1-x)MnxTe. International Journal of Modern Physics B, 2007, 21, 1632-1637.	2.0	1
191	Measurement of the Carrier-Envelope Phase of Few-Cycle Laser Pulses by THz-Emission Spectroscopy. , 2007, , .		0
192	Observation of Long-Lived Screening in Low-Temperature-Grown GaAs Photoconductive Switches. , 2007, , .		0
193	Continuous-wave terahertz imaging with a hybrid system. , 2007, , .		4
194	Observation of long-lived screening in low-temperature-grown GaAs photoconductive switches. , 2007, , .		0
195	On the way to an active terahertz camera: Optic design and its experimental verification. , 2007, , .		2
196	Towards an active real-time THz camera: first realization of a hybrid system. , 2007, , .		9
197	High-accuracy topography measurement of optically rough surfaces with THz radiation. , 2007, , .		1
198	All-Optoelectronic Terahertz Imaging Systems and Examples of Their Application. Proceedings of the IEEE, 2007, 95, 1576-1582.	21.3	19

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199	Radiation field screening in photoconductive antennae studied via pulsed terahertz emission spectroscopy. Applied Physics Letters, 2007, 91, .	3.3	65
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