

Hartmut G Roskos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9086608/publications.pdf>

Version: 2024-02-01

366
papers

10,345
citations

44069

48
h-index

40979

93
g-index

370
all docs

370
docs citations

370
times ranked

5457
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent submillimeter-wave emission from Bloch oscillations in a semiconductor superlattice. <i>Physical Review Letters</i> , 1993, 70, 3319-3322.	7.8	707
2	Broadband THz emission from gas plasmas induced by femtosecond optical pulses: From fundamentals to applications. <i>Laser and Photonics Reviews</i> , 2007, 1, 349-368.	8.7	467
3	Terahertz-pulse generation by photoionization of air with laser pulses composed of both fundamental and second-harmonic waves. <i>Optics Letters</i> , 2004, 29, 1120.	3.3	445
4	Coherent submillimeter-wave emission from charge oscillations in a double-well potential. <i>Physical Review Letters</i> , 1992, 68, 2216-2219.	7.8	421
5	A 0.65 THz Focal-Plane Array in a Quarter-Micron CMOS Process Technology. <i>IEEE Journal of Solid-State Circuits</i> , 2009, 44, 1968-1976.	5.4	359
6	Rational design of high-responsivity detectors of terahertz radiation based on distributed self-mixing in silicon field-effect transistors. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	291
7	Determination of the carrier-envelope phase of few-cycle laser pulses with terahertz-emission spectroscopy. <i>Nature Physics</i> , 2006, 2, 327-331.	16.7	235
8	CMOS Integrated Antenna-Coupled Field-Effect Transistors for the Detection of Radiation From 0.2 to 4.3 THz. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 3834-3843.	4.6	232
9	THz Active Imaging Systems With Real-Time Capabilities. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011, 1, 183-200.	3.1	224
10	Antenna-Integrated 0.6 THz FET Direct Detectors Based on CVD Graphene. <i>Nano Letters</i> , 2014, 14, 5834-5838.	9.1	219
11	Terahertz white-light pulses from an air plasma photo-induced by incommensurate two-color optical fields. <i>Optics Express</i> , 2010, 18, 23173.	3.4	211
12	Continuous-wave all-optoelectronic terahertz imaging. <i>Applied Physics Letters</i> , 2002, 80, 3003-3005.	3.3	193
13	Terahertz dark-field imaging of biomedical tissue. <i>Optics Express</i> , 2001, 9, 616.	3.4	190
14	Generation of terahertz pulses by photoionization of electrically biased air. <i>Applied Physics Letters</i> , 2000, 77, 453-455.	3.3	189
15	Spin-conserving carrier recombination in conjugated polymers. <i>Nature Materials</i> , 2005, 4, 340-346.	27.5	189
16	Emission of Submillimeter Electromagnetic Waves by Coherent Phonons. <i>Physical Review Letters</i> , 1995, 74, 738-741.	7.8	180
17	THz electromagnetic emission by coherent infrared-active phonons. <i>Physical Review B</i> , 1996, 53, 4005-4014.	3.2	180
18	Terahertz responsivity and low-frequency noise in biased silicon field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 153505.	3.3	145

#	ARTICLE	IF	CITATIONS
19	Large-area electro-optic ZnTe terahertz emitters. <i>Optics Express</i> , 2005, 13, 5353.	3.4	144
20	Roadmap of Terahertz Imaging 2021. <i>Sensors</i> , 2021, 21, 4092.	3.8	143
21	Antenna-coupled field-effect transistors for multi-spectral terahertz imaging up to 425 THz. <i>Optics Express</i> , 2014, 22, 19235.	3.4	131
22	Diagnosing water content in paper by terahertz radiation. <i>Optics Express</i> , 2008, 16, 9060.	3.4	123
23	Coupled-cavity resonant passive mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1990, 15, 1377.	3.3	102
24	Terahertz heterodyne detection with silicon field-effect transistors. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	98
25	All-optoelectronic continuous wave THz imaging for biomedical applications. <i>Physics in Medicine and Biology</i> , 2002, 47, 3743-3748.	3.0	95
26	A High-Sensitivity AlGaIn/GaN HEMT Terahertz Detector With Integrated Broadband Bow-Tie Antenna. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019, 9, 430-444.	3.1	90
27	Continuous-wave terahertz imaging with a hybrid system. <i>Applied Physics Letters</i> , 2007, 90, 091111.	3.3	86
28	Low-dispersion thin-film microstrip lines with cyclotene (benzocyclobutene) as dielectric medium. <i>Applied Physics Letters</i> , 1997, 70, 2233-2235.	3.3	80
29	Gas-pressure dependence of terahertz-pulse generation in a laser-generated nitrogen plasma. <i>Journal of Applied Physics</i> , 2002, 91, 2611-2614.	2.5	80
30	Exploration of Terahertz Imaging with Silicon MOSFETs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 63-80.	2.2	80
31	Terahertz electromagnetic radiation from quantum wells. <i>Applied Physics B: Lasers and Optics</i> , 1994, 58, 249-259.	2.2	67
32	Visualization and classification in biomedical terahertz pulsed imaging. <i>Physics in Medicine and Biology</i> , 2002, 47, 3847-3852.	3.0	67
33	Spatio-spectral characteristics of ultra-broadband THz emission from two-colour photoexcited gas plasmas and their impact for nonlinear spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 075023.	2.9	67
34	Broadband Terahertz Power Detectors Based on 90-nm Silicon CMOS Transistors With Flat Responsivity Up to 2.2 THz. <i>IEEE Electron Device Letters</i> , 2018, 39, 1413-1416.	3.9	67
35	Superradiant emission from Bloch oscillations in semiconductor superlattices. <i>Physical Review B</i> , 1996, 54, R14325-R14328.	3.2	66
36	Radiation field screening in photoconductive antennae studied via pulsed terahertz emission spectroscopy. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	65

#	ARTICLE	IF	CITATIONS
37	Comparative performance of terahertz emitters in amplifier-laser-based systems. Semiconductor Science and Technology, 2005, 20, S134-S141.	2.0	62
38	Performance and performance variations of sub-1-THz detectors fabricated with 0.15- μ m CMOS foundry process. Electronics Letters, 2011, 47, 661.	1.0	62
39	CMOS detector arrays in a virtual 10-kilopixel camera for coherent terahertz real-time imaging. Optics Letters, 2012, 37, 536.	3.3	62
40	Indium-tin-oxide-coated glass as dichroic mirror for far-infrared electromagnetic radiation. Journal of Applied Physics, 2002, 92, 2210-2212.	2.5	59
41	Free-carrier dynamics in low-temperature-grown GaAs at high excitation densities investigated by time-domain terahertz spectroscopy. Physical Review B, 2002, 65, .	3.2	58
42	THz-photomixer based on quasi-ballistic transport. Semiconductor Science and Technology, 2005, 20, S178-S190.	2.0	58
43	Optoelectronic on-chip characterization of ultrafast electric devices: Measurement techniques and applications. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 586-604.	2.9	57
44	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
45	Terahertz imaging with GaAs field-effect transistors. Electronics Letters, 2008, 44, 408.	1.0	54
46	Terahertz heterodyne imaging with InGaAs-based bow-tie diodes. Applied Physics Letters, 2011, 99, .	3.3	53
47	Silicon lens-coupled bow-tie InGaAs-based broadband terahertz sensor operating at room temperature. Electronics Letters, 2006, 42, 825.	1.0	52
48	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
49	Generation of terahertz electromagnetic pulses from quantum-well structures. IEEE Journal of Quantum Electronics, 1994, 30, 1478-1488.	1.9	49
50	Excitonic Emission of THz Radiation: Experimental Evidence of the Shortcomings of the Bloch Equation Method. Physical Review Letters, 1997, 78, 2232-2235.	7.8	46
51	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
52	Terahertz profilometry at 600 GHz with 0.5 μ m depth resolution. Optics Express, 2008, 16, 11289.	3.4	44
53	Fast Active THz Cameras with Ranging Capabilities. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1281.	2.2	44
54	Terahertz sensing application by using planar split-ring-resonator structures. Microsystem Technologies, 2012, 18, 2071-2076.	2.0	43

#	ARTICLE	IF	CITATIONS
55	Propagation of picosecond electrical pulses on a silicon-based microstrip line with buried cobalt silicide ground plane. Applied Physics Letters, 1991, 58, 2604-2606.	3.3	42
56	Broadband terahertz spectroscopy: principles, fundamental research and potential for industrial applications. European Journal of Physics, 2013, 34, S179-S199.	0.6	42
57	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
58	Bloch oscillations in GaAs/AlGaAs superlattices after excitation well above the bandgap. Superlattices and Microstructures, 1994, 15, 281.	3.1	41
59	Terahertz Imaging Detectors in CMOS Technology. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1269.	2.2	41
60	Terahertz imaging with Si MOSFET focal-plane arrays. , 2009, , .		41
61	Camera for High-Speed THz Imaging. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 986-997.	2.2	40
62	Efficient Terahertz Pulse Generation in Laser-Induced Gas Plasmas. Acta Physica Polonica A, 2005, 107, 99-108.	0.5	40
63	Experimental evidence for electron repulsion in multiphoton double ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L449-L455.	1.5	38
64	Remote identification of protrusions and dents on surfaces by terahertz reflectometry with spatial beam filtering and out-of-focus detection. Applied Physics Letters, 2003, 83, 3996-3998.	3.3	38
65	Illumination Aspects in Active Terahertz Imaging. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2008-2013.	4.6	37
66	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
67	Application of liftoff low-temperature-grown GaAs on transparent substrates for THz signal generation. Applied Physics Letters, 1996, 69, 2903-2905.	3.3	36
68	Optimization of single-cycle terahertz generation in LiNbO ₃ for sub-50 femtosecond pump pulses. Optics Express, 2013, 21, 6826.	3.4	36
69	Field Screening in Low-Temperature-Grown GaAs Photoconductive Antennas. Japanese Journal of Applied Physics, 2004, 43, 1038-1043.	1.5	35
70	A fully tunable dual-color CW Ti:Al/sub 2/O/sub 3/ laser. IEEE Journal of Quantum Electronics, 1999, 35, 1731-1736.	1.9	33
71	Giga- and terahertz frequency band detector based on an asymmetrically necked n-n+-GaAs planar structure. Journal of Applied Physics, 2003, 93, 3034-3038.	2.5	33
72	Dual-band polarization-independent sub-terahertz fishnet metamaterial. Current Applied Physics, 2012, 12, 443-450.	2.4	33

#	ARTICLE	IF	CITATIONS
73	Efficiency of submillimeter-wave generation and amplification by coherent wave-packet oscillations in semiconductor structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994, 11, 2470.	2.1	32
74	Radiative decay of optically excited coherent plasmons in a two-dimensional electron gas. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 1045.	2.1	32
75	Detection of terahertz-sub-terahertz radiation by asymmetrically-shaped 2DEG layers. <i>Electronics Letters</i> , 2004, 40, 631.	1.0	31
76	Influence of Pr doping and oxygen deficiency on the scattering behavior of YBa ₂ Cu ₃ O ₇ thin films. <i>Physical Review B</i> , 1996, 53, 12502-12508.	3.2	30
77	Field-Effect Transistor Based Detectors for Power Monitoring of THz Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018, 8, 613-621.	3.1	30
78	Optical second-harmonic probe for silicon millimeter-wave circuits. <i>Applied Physics Letters</i> , 1996, 68, 1699-1701.	3.3	29
79	Direct nanoscopic observation of plasma waves in the channel of a graphene field-effect transistor. <i>Light: Science and Applications</i> , 2020, 9, 97.	16.6	29
80	Optimization of YBa ₂ Cu ₃ O ₇ submicrometer structure fabrication. <i>Applied Physics Letters</i> , 1993, 63, 1149-1151.	3.3	28
81	Emission of picosecond electromagnetic pulses from optically excited superconducting bridges. <i>Physical Review B</i> , 1996, 54, R6889-R6892.	3.2	28
82	Electro-optic near-field mapping of planar resonators. <i>IEEE Transactions on Antennas and Propagation</i> , 1998, 46, 284-291.	5.1	27
83	Redox-Active Ferrocenylboronium Polyelectrolytes with Main Chain Charge-Transfer Structure. <i>Macromolecules</i> , 2010, 43, 5256-5261.	4.8	27
84	Passive Detection and Imaging of Human Body Radiation Using an Uncooled Field-Effect Transistor-Based THz Detector. <i>Sensors</i> , 2020, 20, 4087.	3.8	27
85	Detection of Bloch oscillations in a semiconductor superlattice by time-resolved terahertz spectroscopy and degenerate four-wave mixing. <i>Solid-State Electronics</i> , 1994, 37, 1321-1326.	1.4	26
86	Fabrication and characterization of freely positionable silicon-on-sapphire photoconductive probes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994, 11, 2547.	2.1	26
87	Electronic Structure, Photophysics, and Relaxation Dynamics of Charge Transfer Excited States in Boron-Nitrogen-Bridged Ferrocene-Donor Organic-Acceptor Compounds. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3281-3291.	2.5	26
88	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. <i>Nanophotonics</i> , 2018, 7, 269-276.	6.0	26
89	Numerical and experimental investigation of fishnet-based metamaterial in a X-band waveguide. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 255101.	2.8	25
90	3D Fourier imaging based on 2D heterodyne detection at THz frequencies. <i>APL Photonics</i> , 2019, 4, .	5.7	25

#	ARTICLE	IF	CITATIONS
91	Cooling of a carrier plasma in germanium investigated with subpicosecond infrared pulses. Applied Physics Letters, 1988, 53, 2406-2408.	3.3	24
92	A CMOS focal-plane array for heterodyne terahertz imaging. , 2009, , .		24
93	Operation of an infrared dye laser synchronously pumped by a mode-locked CW Nd:YAG laser. IEEE Journal of Quantum Electronics, 1986, 22, 697-703.	1.9	22
94	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
95	Broadside-coupled triangular split-ring-resonators for terahertz sensing. EPJ Applied Physics, 2013, 61, 30402.	0.7	22
96	SiGe wires and dots grown by local epitaxy. Journal of Crystal Growth, 1995, 150, 1060-1064.	1.5	21
97	Field-effect transistors as electrically controllable nonlinear rectifiers for the characterization of terahertz pulses. APL Photonics, 2018, 3, .	5.7	21
98	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
99	Intracavity third-harmonic generation in Si:B pumped by intense terahertz pulses. Physical Review B, 2020, 102, .	3.2	21
100	Efficient high-power optical pulse compression with logarithmic wing analysis. Optics Communications, 1987, 61, 81-86.	2.1	20
101	Surface resistance and penetration depth of YBa ₂ Cu ₃ O _{7-δ} thin films on silicon at ultrahigh frequencies. Applied Physics Letters, 1994, 64, 3326-3328.	3.3	20
102	Oxygen control of dc-sputtered Bi ₂ Sr ₂ Ca ₁ Cu ₂ O ₈ + δ films. Applied Physics Letters, 1994, 64, 378-380.	3.3	20
103	Ultrafast Fiske Effect in Semiconductor Superlattices. Physical Review Letters, 2006, 96, 137403.	7.8	20
104	High-sensitivity wideband THz detectors based on GaN HEMTs with integrated bow-tie antennas. , 2015, , .		20
105	Coherent Hall Effect in a Semiconductor Superlattice. Physical Review Letters, 2002, 88, 086801.	7.8	19
106	All-Optoelectronic Terahertz Imaging Systems and Examples of Their Application. Proceedings of the IEEE, 2007, 95, 1576-1582.	21.3	19
107	Evidence for long-living charge carriers in electrically biased low-temperature-grown GaAs photoconductive switches. Applied Physics Letters, 2007, 90, 052101.	3.3	19
108	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

#	ARTICLE	IF	CITATIONS
109	Relativistic Doppler frequency upconversion of terahertz pulses reflecting from a photoinduced plasma front in silicon. <i>Physical Review B</i> , 2014, 90, .	3.2	19
110	Ultrafast dynamic conductivity and scattering rate saturation of photoexcited charge carriers in silicon investigated with a midinfrared continuum probe. <i>Physical Review B</i> , 2015, 91, .	3.2	19
111	Nonlocal collective ultrastrong interaction of plasmonic metamaterials and photons in a terahertz photonic crystal cavity. <i>Optics Express</i> , 2019, 27, 24455.	3.4	19
112	Bloch oscillations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1996, 354, 2295-2310.	3.4	18
113	Vertical silicon metal-semiconductor-metal photodetectors with buried CoSi ₂ contact. <i>Applied Physics Letters</i> , 1995, 66, 866-868.	3.3	17
114	Stable optoelectronic detection of free-running microwave signals with 150-GHz bandwidth. <i>Microelectronic Engineering</i> , 1996, 31, 397-408.	2.4	17
115	Influence of LO-Phonon Emission on Bloch Oscillations in Semiconductor Superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 83-86.	1.5	17
116	9.74-THz electronic Far-Infrared detection using Schottky barrier diodes in CMOS. , 2014, , .		17
117	Characterization of Fe(II) complexes exhibiting the ligand-driven light-induced spin-change effect using SQUID and magnetic circular dichroism. <i>Comptes Rendus Chimie</i> , 2007, 10, 125-136.	0.5	16
118	Experimental demonstration of efficient pulsed terahertz emission from a stacked GaAs/AlGaAs p-i-n-i heterostructure. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	16
119	Antenna-coupled field-effect transistors as detectors for terahertz near-field microscopy. <i>Nanoscale Advances</i> , 2021, 3, 1717-1724.	4.6	16
120	Cooling of photoexcited carriers in undoped and n-doped Ga _{0.47} In _{0.53} As studied within the first few picoseconds. <i>Physical Review B</i> , 1989, 40, 1396-1399.	3.2	15
121	Experimental realization of the Bloch oscillator in a semiconductor superlattice. <i>Semiconductor Science and Technology</i> , 1994, 9, 416-418.	2.0	15
122	Motional-Narrowing-Type Dephasing of Electron and Hole Spins of Itinerant Excitons in Magnetically Doped II-VI Bulk Semiconductors. <i>Physical Review Letters</i> , 2006, 96, 117203.	7.8	15
123	Terahertz propagation properties of free-standing woven-steel-mesh metamaterials: Pass-bands and signatures of abnormal group velocities. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	15
124	Heterodyne and subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. <i>Applied Physics Letters</i> , 2013, 103, 093505.	3.3	15
125	Efficient Detection of 3 THz Radiation from Quantum Cascade Laser Using Silicon CMOS Detectors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 1183-1188.	2.2	15
126	Strong interaction between two photons and a plasmon of a complementary metamaterial in a terahertz dual cavity. <i>Optics Express</i> , 2021, 29, 42420.	3.4	15

#	ARTICLE	IF	CITATIONS
127	Pulse shortening to 25 ps in a cw mode-locked Nd: YAG laser by introducing an intracavity etalon. Applied Physics B, Photophysics and Laser Chemistry, 1986, 40, 59-65.	1.5	14
128	Terahertz Bloch oscillations in semiconductor superlattices. Semiconductor Science and Technology, 1994, 9, 1959-1964.	2.0	14
129	Microwave sensor based on modulation-doped GaAs/AlGaAs structure. Semiconductor Science and Technology, 2004, 19, S436-S439.	2.0	14
130	Coherent electro-optical detection of terahertz radiation from an optical parametric oscillator. Optics Express, 2010, 18, 11316.	3.4	14
131	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
132	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
133	Optimization of the surface morphology of magnetron-sputtered Y1Ba2Cu3O7-x films. Applied Physics Letters, 1994, 64, 3166-3168.	3.3	13
134	Bloch Oscillations in Semiconductor Superlattices. Japanese Journal of Applied Physics, 1995, 34, 1370-1375.	1.5	13
135	All-optoelectronic continuous-wave terahertz systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 263-281.	3.4	13
136	Synthesis, Structure, Photoluminescence and Photoreactivity of 2,3-diphenyl-4-neopentyl-1-silacyclobutanes. Chemistry - A European Journal, 2009, 15, 8625-8645. ^{3.3}		13
137	Direct Near-Field Observation of Surface Plasmon Polaritons on Silver Nanowires. ACS Omega, 2019, 4, 21962-21966.	3.5	13
138	High resolution transmission electron microscopy study of interface structures and growth defects in epitaxial Bi ₂ Sr ₂ Ca _n Cu _n O _{4+2n} + δ films on SrTiO ₃ and LaAlO ₃ . Journal of Materials Research, 1996, 11, 2416-2428.	2.6	12
139	Time-resolved photocurrent spectroscopy of the evolution of the electric field in optically excited superlattices and the prospects for Bloch gain. Applied Physics Letters, 2005, 86, 102103.	3.3	12
140	Optimization of the Design of Terahertz Detectors Based on Si CMOS and AlGaIn/GaN Field-Effect Transistors. International Journal of High Speed Electronics and Systems, 2016, 25, 1640013.	0.7	12
141	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
142	Coherent emission of electromagnetic pulses from bloch oscillations in semiconductor superlattices. , 1995, , 297-315.		11
143	Detection of free-running electric signals up to 75 GHz using a femtosecond-pulse laser. IEEE Photonics Technology Letters, 1995, 7, 1189-1191.	2.5	11
144	Coherent submillimeter-wave emission from non-equilibrium two-dimensional free carrier plasmas in AlGa/AsGaAs heterojunctions. Surface Science, 1996, 361-362, 368-371.	1.9	11

#	ARTICLE	IF	CITATIONS
145	External photoconductive switches as generators and detectors of picosecond electric transients. <i>Microelectronic Engineering</i> , 1996, 31, 415-426.	2.4	11
146	Propagation effects in electro-optic sampling of terahertz pulses in GaAs. <i>Applied Optics</i> , 1998, 37, 3368.	2.1	11
147	Detectors for terahertz multi-pixel coherent imaging and demonstration of real-time imaging with a 12x12-pixel CMOS array. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
148	Effect of the Metallization on the Resonances of THz Fishnet Metamaterials. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 7, .	1.9	11
149	The potential for sensitivity enhancement by the thermoelectric effect in carbon-nanotube and graphene Tera-FETs. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012004.	0.4	11
150	Thermal noise-limited sensitivity of FET-based terahertz detectors. , 2017, , .		11
151	Dielectric properties of vertically aligned multi-walled carbon nanotubes in the terahertz and mid-infrared range. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 034004.	2.8	11
152	Design and demonstration of antenna-coupled Schottky diodes in a foundry complementary metal-oxide semiconductor technology for electronic detection of far-infrared radiation. <i>Journal of Applied Physics</i> , 2019, 125, 194501.	2.5	11
153	Can a terahertz metamaterial sensor be improved by ultra-strong coupling with a high-Q photonic resonator?. <i>Optics Express</i> , 2022, 30, 13659.	3.4	11
154	Surface topography and bulk structure of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ films observed by scanning tunneling microscopy and high-resolution transmission electron microscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 245, 84-92.	1.2	10
155	Charge accumulation effects and microwave absorption of coplanar waveguides fabricated on high- ϵ resistivity Si with SiO ₂ insulation layer. <i>Applied Physics Letters</i> , 1995, 67, 2624-2626.	3.3	10
156	Generation and detection of picosecond electric pulses with freely positionable photoconductive probes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1995, 43, 2856-2862.	4.6	10
157	CMOS integrated antenna-coupled field-effect-transistors for the detection of 0.2 to 4.3 THz. , 2012, , .		10
158	Imaging and Spectroscopic Sensing with Low-Repetition-Rate Terahertz Pulses and GaN TeraFET Detectors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018, 39, 262-272.	2.2	10
159	THz Active Imaging Systems with Real-Time Capabilities. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2014, , 153-187.	0.3	10
160	Mode Calculations for a Terahertz Quantum Cascade Laser. <i>Optics Express</i> , 2004, 12, 2062.	3.4	9
161	Towards an active real-time THz camera: first realization of a hybrid system. , 2007, , .		9
162	Terahertz emission from biased AlGaIn/GaN high-electron-mobility transistors. <i>Journal of Applied Physics</i> , 2019, 125, 151614.	2.5	9

#	ARTICLE	IF	CITATIONS
163	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. Optics Express, 2016, 24, 15261.	3.4	8
164	Hydrodynamic modelling of terahertz rectification in AlGaIn/GaN high electron mobility transistors. Journal of Physics: Conference Series, 2017, 906, 012023.	0.4	8
165	Carrier cooling in nonpolar semiconductors studied with subpicosecond time-resolution. Solid-State Electronics, 1989, 32, 1437-1441.	1.4	7
166	High-frequency on-wafer testing with freely positionable silicon-on-sapphire photoconductive probes. , 0, , .		7
167	Microwave properties and strain-induced lattice defects of c-axis-oriented YBa ₂ Cu ₃ O ₇ thin films on silicon. Journal of Applied Physics, 1996, 80, 3488-3492.	2.5	7
168	Influence of a strong magnetic field on the Wannier-Stark states of an electrically biased GaAs/Al _x Ga _{1-x} As superlattice. Physical Review B, 2003, 67, .	3.2	7
169	Electro-optic investigation of the Coherent Hall Effect in semiconductor superlattices. Physica Status Solidi (B): Basic Research, 2005, 242, 1175-1178.	1.5	7
170	Fast active THz camera with range detection by frequency modulation. Proceedings of SPIE, 2009, , .	0.8	7
171	Characterizing large-area electro-optic crystals toward two-dimensional real-time terahertz imaging. Applied Optics, 2009, 48, 5197.	2.1	7
172	Real-time CMOS terahertz camera employing plane-to-plane imaging with a focal-plane array of field-effect transistors. , 2013, , .		7
173	Terahertz array imagers: towards the implementation of terahertz cameras with plasma-wave-based silicon MOSFET detectors. , 2013, , 231-271.		7
174	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
175	Electro-optic measurement of the electric near-field distribution of 7 GHz planar resonator. Electronics Letters, 1996, 32, 1305.	1.0	6
176	Picosecond optoelectronic on-wafer characterization of coplanar waveguides on high-resistivity Si and substrates. Microelectronic Engineering, 1996, 31, 385-395.	2.4	6
177	Examining the terahertz signal from a photoexcited biased semiconductor superlattice for evidence of gain. Applied Physics Letters, 2008, 93, 021122.	3.3	6
178	Hybrid Continuous-Wave Demodulating Multipixel Terahertz Imaging Systems. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2022-2026.	4.6	6
179	Silicon CMOS-based THz detection. , 2011, , .		6
180	Terahertz rectification by plasmons and hot carriers in gated 2D electron gases. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
181	Circuit-Based Hydrodynamic Modeling of AlGaIn/GaN HEMTs. , 2019, , .		6
182	Al-SiO ₂ /sub 2/-Al sandwich microstrip lines for high-frequency on-chip interconnects. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 2087-2091.	4.6	5
183	Internal field dynamics of coherent bloch oscillations in superlattices. Superlattices and Microstructures, 1994, 15, 11.	3.1	5
184	Local epitaxy of Si/SiGe wires and dots. Journal of Crystal Growth, 1995, 157, 270-275.	1.5	5
185	External-field-induced electric dipole moment of biexcitons in a semiconductor. Physical Review B, 1995, 52, R16993-R16996.	3.2	5
186	Preparation of Y-Ba-Cu-O and Bi-Sr-Ca-Cu-O thin films. IEEE Transactions on Applied Superconductivity, 1995, 5, 1331-1334.	1.7	5
187	Optical properties of reactive-ion-etched Si/Si _{1-x} Ge _x heterostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 698.	1.6	5
188	A triangle-shaped nanoscale metal-oxide-semiconductor device. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 4042.	1.6	5
189	Overview on Time-Domain Terahertz Spectroscopy and its Applications in Atomic and Semiconductor Physics. Physica Scripta, 2000, T86, 51.	2.5	5
190	Silicon CMOS-transistor-based detection up to 4.25 THz. , 2011, , .		5
191	Terahertz detection and coherent imaging from 0.2 to 4.3 THz with silicon CMOS field-effect transistors. , 2012, , .		5
192	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
193	Enhanced performance of AlGaIn/GaN HEMT-Based THz detectors at room temperature and at low temperature. , 2017, , .		5
194	Towards gas sensing with vertically aligned carbon nanotubes interrogated by THz radiation pulses. Lithuanian Journal of Physics, 2018, 58, .	0.4	5
195	Fabrication and characterization of Si/SiGe nanometer structures. Microelectronic Engineering, 1995, 27, 83-86.	2.4	4
196	Time-resolved optical investigations of bloch oscillations in semiconductor superlattices. Solid-State Electronics, 1996, 40, 551-554.	1.4	4
197	THz-wave emission by coherent optical phonons. Physica B: Condensed Matter, 1996, 219-220, 775-777.	2.7	4
198	Investigation of heterostructures patterned by reactive ion etching. Microelectronic Engineering, 1996, 30, 341-344.	2.4	4

#	ARTICLE	IF	CITATIONS
199	Ultrafast optoelectronic switches based on high-T/sub c/ superconductors. IEEE Transactions on Applied Superconductivity, 1997, 7, 3722-3725.	1.7	4
200	Evolution of energy levels of a GaAs/AlGaAs superlattice under the influence of a strong magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 289-293.	2.7	4
201	Optical determination of the oxygen content of YBa2Cu3O6+x thin films by IR reflectance and transmittance measurements. Physica C: Superconductivity and Its Applications, 2001, 366, 63-72.	1.2	4
202	High-frequency oscillations in an $\hat{1}\pm$ -Si/Si(p)/Si(n) device. Chaos, Solitons and Fractals, 2003, 17, 289-295.	5.1	4
203	Optical far-IR wave generation - state-of-the-art and advanced device structures. , 2004, , .		4
204	Continuous-wave terahertz imaging with a hybrid system. , 2007, , .		4
205	Fast active THz-camera with global illumination. , 2009, , .		4
206	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
207	Active THz imaging system with improved frame rate. , 2009, , .		4
208	Terahertz heterodyne detection with silicon CMOS transistors. , 2009, , .		4
209	Towards monolithically integrated CMOS cameras for active imaging with 600 GHz radiation. Proceedings of SPIE, 2012, , .	0.8	4
210	Optimized Tera-FET detector performance based on an analytical device model verified up to 9 THz. , 2013, , .		4
211	Near-Field Observation of Guided-Mode Resonances on a Metasurface via Dielectric Nanosphere Excitation. ACS Photonics, 2018, 5, 4238-4243.	6.6	4
212	Dynamic-range Enhancement of Heterodyne THz Imaging by the Use of a Soft Paraffin-wax Substrate Lens on the Detector. , 2019, , .		4
213	TeraFET multi-pixel THz array for a confocal imaging system. , 2019, , .		4
214	300-GHz holography with heterodyne detection. , 2019, , .		4
215	Resolution enhancement of THz imaging based on Fourier-space spectrum detection. , 2020, , .		4
216	Relaxation of hot carriers in undoped and n-doped Ga0.47In0.53As generated by subpicosecond pulses. Solid-State Electronics, 1989, 32, 1405-1409.	1.4	3

#	ARTICLE	IF	CITATIONS
217	Endpoint detection by sputtered neutral mass spectrometry in ion milling of prepatterned semiconductor and high- T_c superconductor films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994, 12, 2830-2833.	2.1	3
218	Dephasing and selection rules of interband and intraband polarizations in superlattices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 1009.	2.1	3
219	Fabrication and characterisation of SiGe based in-plane-gate transistors. <i>Microelectronic Engineering</i> , 1997, 35, 301-304.	2.4	3
220	Efficient THz-emitters for low-temperature-grown GaAs photomixers. , 0, , .		3
221	Terahertz optical properties of thin doped contact layers in GaAs device structures. <i>Semiconductor Science and Technology</i> , 2003, 18, 28-32.	2.0	3
222	Picosecond energy relaxation in. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 1297-1299.	2.7	3
223	THz-emitter based on ballistic transport in nano-pin diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 965-969.	1.8	3
224	The coherent Hall effect of charge carriers in a superlattice: semiclassical description of the wavepacket dynamics. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2487-2509.	1.8	3
225	Terahertz Sensing and Imaging with Silicon Field-Effect Transistors up to 9 THz. , 2012, , .		3
226	Photonic terahertz technology. <i>Semiconductor Science and Technology</i> , 2005, 20, .	2.0	3
227	Concept of Internal Mixing in Semiconductor Lasers and Optical Amplifiers for Room-Temperature Generation of Tunable Continuous TeraHertz Waves. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007, 2, 1-10.	0.5	3
228	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. <i>Acta Physica Polonica A</i> , 2008, 113, 769-776.	0.5	3
229	Terahertz photoconductive waveguide emitter with excitation by a tilted optical pulse front. <i>Optics Express</i> , 2020, 28, 33673.	3.4	3
230	Coulomb-Renormalized Intraband Dynamics Probed by THz Emission. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 31-34.	1.5	2
231	On the way to "optical doping" of electronically low-dimensional polymer systems with strong charge and spin correlations. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 477-481.	2.3	2
232	Time-resolved photocurrent spectroscopy of optically excited superlattices and the prospects for Bloch gain. , 2006, , .		2
233	Generation of a DC Fiske current by coupling of Bloch and in-plane cyclotron oscillations in a semiconductor superlattice. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2405-2409.	1.5	2
234	On the way to an active terahertz camera: Optic design and its experimental verification. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
235	Electron ensemble coherence and terahertz radiation amplification in a cascade superlattice structure. <i>Microelectronics Journal</i> , 2008, 39, 624-627.	2.0	2
236	Berührungsfreie Prüfung von Materialoberflächen mit THz-Strahlung (Contactless Testing of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	2
237	Quasioptical system design. , 2009, , .		2
238	Pump/probe THz spectroscopy of the conductivity of TTF-TCNQ films. , 2010, , .		2
239	Terahertz responsivity enhancement and low-frequency noise study in silicon CMOS detectors using a drain current bias. , 2011, , .		2
240	Electric field distribution in biased GaAs microstructures with field-pinning layers. <i>Superlattices and Microstructures</i> , 2012, 52, 1143-1154.	3.1	2
241	TeraFET detector for measuring power fluctuations of 4.75-THz QCL-generated radiation. , 2017, , .		2
242	Coherent photo-induced phonon emission in the charge-density-wave state of $K_{0.3}MoO_3$. <i>New Journal of Physics</i> , 2019, 21, 013013.	2.9	2
243	Advances in continuous-wave THz generation. , 1999, , .		2
244	High-harmonic generation from weakly p-doped Si pumped with intense THz pulses. , 2021, , .		2
245	Fabrication and characterisation of locally grown SiGe wires and dots. <i>Materials Science and Technology</i> , 1995, 11, 407-409.	1.6	1
246	Fresh insights into electron oscillations. <i>Physics World</i> , 1997, 10, 24-25.	0.0	1
247	New concept for ultra small N-MOSFET's. <i>Microelectronic Engineering</i> , 1997, 35, 305-308.	2.4	1
248	GHz-THz Detection by Asymmetrically-Shaped GaAs: Bulk Material versus Nanostructures. <i>Materials Science Forum</i> , 2002, 384-385, 193-196.	0.3	1
249	Carrier-Density Dependence of Faraday Rotation and Spin Splitting in $Cd_{1-x}Mn_xTe$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 461-464.	0.5	1
250	Temperature dependence of the faraday effect of moderately doped semiconductors at terahertz frequencies. , 0, , .		1
251	Terahertz surface and interface characterization. , 2005, , .		1
252	CARRIER-DENSITY DEPENDENCE OF THE EXCHANGE COUPLING BETWEEN MAGNETIC IONS AND CONDUCTION BAND ELECTRONS IN HEAVILY n-TYPE $Zn(1-x)Mn_xSe$ AND OPTICALLY PUMPED $Cd(1-x)Mn_xTe$. <i>International Journal of Modern Physics B</i> , 2007, 21, 1632-1637.	2.0	1

#	ARTICLE	IF	CITATIONS
253	High-accuracy topography measurement of optically rough surfaces with THz radiation. , 2007, , .		1
254	The Two-Dimensional Bigradient Effect and Its Application for GHz-THz Sensing. AIP Conference Proceedings, 2007, , .	0.4	1
255	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
256	Efficient distributed self-mixing in silicon CMOS transistors. , 2009, , .		1
257	Coherent detection methods for ultra-broadband THz pulses from a laser-induced air plasma. , 2011, , .		1
258	Terahertz polarization rotator consists of chiral metamaterial and dielectric slabs. , 2011, , .		1
259	Dual-band polarization-independent fishnet metamaterial for terahertz frequency range. , 2011, , .		1
260	CMOS detector arrays for coherent THz imaging: From point-to-point towards plane-to-plane imaging configurations. , 2012, , .		1
261	Heterodyne and spectroscopic room temperature terahertz imaging using InGaAs bow-tie diodes. , 2012, , .		1
262	All-electronic terahertz imaging: Planar emitters and detectors at 220 GHz in CMOS technology. , 2012, , .		1
263	20 μm gate width CVD graphene FETs for 0.6 THz detection. , 2014, , .		1
264	Terahertz edge detection with antenna-coupled field-effect transistors in 0.25 μm AlGaIn/GaN technology. , 2014, , .		1
265	Terahertz Detection with Field-effect Transistors: Intrinsic versus Device Sensitivity Limits. , 2014, , .		1
266	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
267	Design and analysis of a perfect metamaterial absorber for sub-terahertz frequencies. AIP Conference Proceedings, 2016, , .	0.4	1
268	Efficient detection of short-pulse THz radiation with field effect transistors. , 2017, , .		1
269	THz Detection with Field-Effect Transistors: The Role of Plasma Waves and of Thermoelectric Contributions. , 2018, , .		1
270	Ultrabroadband Terahertz Detectors Based on CMOS Field-Effect Transistors with Integrated Antennas. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
271	THz generation by photo-ionization of electrically biased air. Springer Series in Chemical Physics, 2001, , 200-202.	0.2	1
272	Perspectives of Continuous-Wave Optoelectronic THZ Imaging. , 2001, , 127-143.		1
273	300-GHz in-line holography with high dynamic range. , 2019, , .		1
274	Fourier imaging with CW terahertz waves. , 2019, , .		1
275	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
276	THz generation by third-order non-linearities in air and air plasmas. Springer Series in Chemical Physics, 2003, , 274-276.	0.2	1
277	Ultrafast Heterobarrier Metal-Semiconductor-Metal Photodetectors. , 1993, , .		1
278	Bloch Oscillations in Superlattices. NATO ASI Series Series B: Physics, 1994, , 325-329.	0.2	1
279	THz emission from semiconductors using excitation by a tilted pulse front. , 2020, , .		1
280	THz Fourier Imaging Based on Sub-harmonic Heterodyne Detection. , 2020, , .		1
281	Distinction of the thermoelectric effect in graphene FET THz detectors. , 2020, , .		1
282	Al-SiO ₂ /Al sandwich microstrip lines for on-chip interconnects up to 400 GHz. , 0, , .		0
283	Heterobarrier photodiode MSM structures with subpicosecond temporal resolution. Quantum Electronics, 1994, 24, 814-818.	1.0	0
284	Coherent dynamics of excitonic and biexcitonic wave packets in semiconductor superlattices. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 1573-1578.	0.4	0
285	Microwave surface impedance measurements on high-T _c superconductors. European Physical Journal D, 1996, 46, 1117-1118.	0.4	0
286	Optical Probing of Ultrafast Devices. Materials Science Forum, 1999, 297-298, 59-66.	0.3	0
287	THz generation by photo-ionization of electrically biased air. , 2000, , .		0
288	Introduction to the issue on ultrafast phenomena and their applications. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 501-503.	2.9	0

#	ARTICLE	IF	CITATIONS
289	Photoconductivity of Regular Low Dimensional Arrays of GaAs Wires. Materials Science Forum, 2002, 384-385, 87-90.	0.3	0
290	Magnetotransport in Low Dimensional Honeycomb-Shape GaAs Networks. Materials Science Forum, 2002, 384-385, 59-62.	0.3	0
291	The evolution of the electric field in an optically excited semiconductor superlattice. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3055-3058.	0.8	0
292	THz/subTHz Detection by Asymmetrically-Shaped Bow-Tie Diodes Containing 2DEG Layer. AIP Conference Proceedings, 2005, , .	0.4	0
293	The nipnip-THz-emitter: photomixing based on ballistic transport. AIP Conference Proceedings, 2005, , .	0.4	0
294	Ballistic transport in semiconductor nanostructures: From quasi-classical oscillations to novel THz-emitters. Pramana - Journal of Physics, 2006, 67, 199-205.	1.8	0
295	Measurement of the Carrier-Envelope Phase of Few-Cycle Laser Pulses by THz-Emission Spectroscopy. , 2007, , .		0
296	Observation of Long-Lived Screening in Low-Temperature-Grown GaAs Photoconductive Switches. , 2007, , .		0
297	Observation of long-lived screening in low-temperature-grown GaAs photoconductive switches. , 2007, , .		0
298	Development of a hybrid THz camera using synchronized two-color laser radiation. , 2008, , .		0
299	Coherent terahertz imaging with synchronized distributed-feedback diode lasers. , 2009, , .		0
300	Multi-pixel continuous-wave THz-imaging by electro-optic sampling using a photonic-mixer-device camera. , 2009, , .		0
301	Coherent electro-optical detection of nanosecond THz pulses from a parametric oscillator. , 2010, , .		0
302	Terahertz responsivity enhancement of silicon CMOS transistor-based detectors using a current bias. , 2010, , .		0
303	Active video-rate camera with up to 32 detector-pixels at 812 GHz. , 2010, , .		0
304	Extreme-bandwidth THz pulses from laser-generated air plasmas. , 2010, , .		0
305	CCD-camera-based electro-optical detection of nanosecond THz pulses from an optical parametric oscillator. , 2010, , .		0
306	THz pulse propagation through woven-steel-mesh metamaterials. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
307	Terahertz heterodyne detection and imaging with the InGaAs bow-tie diode. , 2011, , .		0
308	Coherent terahertz radiation from TTF-TCNQ films irradiated with optical pulses. , 2011, , .		0
309	Properties of the InGaAs bow-tie diode arrays for room temperature terahertz detection. , 2011, , .		0
310	Terahertz propagation through free-standing woven-steel-mesh metamaterials. , 2011, , .		0
311	Key factors in achieving ultra-broadband THz emission from a laser-induced gas plasma. , 2011, , .		0
312	THz frequency up-shift due to Doppler reflection from a moving plasma front in semiconductor media. , 2012, , .		0
313	Low frequency noise characterisation of biased silicon CMOS terahertz detectors. , 2012, , .		0
314	Detection of 639-GHz radiation by sub-harmonic mixing in CMOS field-effect transistors. , 2012, , .		0
315	Scalable, monolithically-integrated detectors for THz imaging. , 2013, , .		0
316	A study on scaling behavior of responsivity and low frequency noise of Si MOSFET-based terahertz detectors. , 2013, , .		0
317	Foundry-processed detector arrays for terahertz spectroscopy and real-time imaging applications. , 2013, , .		0
318	Spectrally resolved beam profiles of the ultra-broadband THz-midinfrared emission from a two-color-excited gas plasma. , 2013, , .		0
319	Role of growth morphology on the terahertz response of vertically aligned carbon nanotubes. , 2013, , .		0
320	Responsivity at 0.27 THz of a heterostructure field effect transistor detector in a quasi-optical package. , 2013, , .		0
321	Sub-harmonic mixing at 591 GHz in AlGaAs/InGaAs two-dimensional electron gas transistors. , 2013, , .		0
322	A stitched 24×24 field-effect transistor detector array and low-noise readout electronics for real-time imaging at 590 GHz. , 2014, , .		0
323	Terahertz detection at 240 GHz with a semiconducting carbon-nanotube field-effect transistor. , 2014, , .		0
324	Subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs field effect transistor. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
325	Relativistic Doppler frequency up-conversion of terahertz pulses via reflection from photo-induced plasma fronts in solid-state media. , 2015, , .		0
326	Relativistic Doppler frequency up-conversion and probing the initial relaxation of a non-equilibrium electron-hole plasma in silicon. , 2015, , .		0
327	Real-time detection of the THz pulses from a THz OPO using AlGaIn/GaN TeraFETs. , 2016, , .		0
328	Terahertz emission from large AlGaIn/GaN field-effect transistors. , 2016, , .		0
329	Direct near-field mapping of nano-sphere-excited leaky surface modes at anisotropic metasurface. Journal of Physics: Conference Series, 2018, 1092, 012165.	0.4	0
330	Terahertz Imaging Based on Coherent Detection of the Fourier-Space Spectrum. , 2019, , .		0
331	Unveiling the plasma wave in the channel of graphene field-effect transistor. , 2019, , .		0
332	Coherent Coupled-Mode Phonon Emission in a Photoexcited Charge-Density-Wave System. , 2019, , .		0
333	Generation of a guided mode in a THz semiconductor waveguide using excitation by a tilted optical pulse front. , 2019, , .		0
334	Polarization and sectioning characteristic of THz confocal microscopy. , 2019, , .		0
335	Sliver Nanowire Surface Plasmon Polaritons enhancement in Terahertz Nanodevices. , 2019, , .		0
336	Cavity enhanced third-harmonic generation in Si:B pumped with intense terahertz pulses. , 2019, , .		0
337	Correction to "Broadband Terahertz Power Detectors Based on 90-nm Silicon CMOS Transistors With Flat Responsivity Up to 2.2 THz" [Sep 18 1413-1416]. IEEE Electron Device Letters, 2019, 40, 354-354.	3.9	0
338	Strong coupling of a plasmonic dark mode with photons in a photonic crystal cavity. , 2021, , .		0
339	Modeling the THz response of antenna-coupled Silicon MOSFETs. , 2021, , .		0
340	Fifth-harmonic generation in Si:B pumped with intense terahertz pulses. , 2021, , .		0
341	Quantitative determination of the density of photo-excited charge carriers by s-SNOM with field-effect-transistor-based THz detection. , 2021, , .		0
342	Dual substrate lenses on TeraFET detector enable Fourier imaging based on sub-harmonic detection at 600 GHz. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
343	All-Optoelectronic CW THz-Imaging for Tumor Recognition. , 2002, , .		0
344	Opto-electronic THz-pulse generation by non-linearities in air and air plasmas. , 2002, , .		0
345	The Hall Current of Coherent Electron Wavepackets. Springer Series in Chemical Physics, 2003, , 353-355.	0.2	0
346	All-Optoelectronic CW THz Imaging for Tumor Recognition. Springer Series in Chemical Physics, 2003, , 280-282.	0.2	0
347	Ultrafast Optical and Magneto-Optical Dynamics in Colossal-Magneto-resistance Manganites. Acta Physica Polonica A, 2005, 107, 211-214.	0.5	0
348	Dynamics of the Electric Field in a GaAs/AlGaAs Superlattice after Femtosecond Optical Excitation: Application of Time-Resolved Spectroscopic Techniques. Acta Physica Polonica A, 2005, 107, 250-255.	0.5	0
349	INTERACTION OF OPTICALLY CREATED ELECTRON ENSEMBLE WITH TERAHERTZ RADIATION IN A SHORT SEMICONDUCTOR SUPERLATTICE. , 2007, , .		0
350	Terahertz Bandwidths Extending to 100 THz from a Two-Color-Photoinduced Air Plasma. , 2010, , .		0
351	Coupled-Cavity Resonant Passive Mode-locked Solid-State Lasers. , 1991, , .		0
352	Terahertz Radiation from Coherent Electron Oscillations in a Double-Quantum-Well Structure. Springer Series in Chemical Physics, 1993, , 484-486.	0.2	0
353	Fast Vertical Silicon Photodetectors with Buried CoSi ₂ Contact. , 1995, , .		0
354	Bloch Oscillations of Excitonic and Continuum States in Superlattices. , 1996, , 143-147.		0
355	Superradiant Terahertz Emission from Bloch Oscillations. Springer Series in Chemical Physics, 1996, , 64-65.	0.2	0
356	Coherent Processes in High-TC Superconductors. , 1996, , 633-636.		0
357	Tunable Coherent THz Radiation Pulses From Optically Excited Bloch Oscillations. , 1997, , 369-375.		0
358	Sandwich microstrip lines with polymer dielectric for high-speed on-chip interconnects. , 1997, , .		0
359	Intraband Coherence after Energy Relaxation. Springer Series in Chemical Physics, 1998, , 263-265.	0.2	0
360	Optimization of the Design of Terahertz Detectors Based on Si CMOS and AlGaIn/GaN Field-Effect Transistors. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
361	Terahertz quantitative metrology using 300 GHz in-line digital holography. , 2019, , .		0
362	Terahertz Nano-Imaging with s-SNOM. , 0, , .		0
363	Optical Performance of Liquid Nitrogen Cooled Transistor-Based THz Detectors. , 2020, , .		0
364	Strong coupling of two photons with a metamaterial plasmon in a terahertz cavity. , 2020, , .		0
365	Completely Passive Room-Temperature Imaging of Human Body Radiation Below 1 THz with Field-Effect Transistors. , 2020, , .		0
366	Towards Superlattice Terahertz Amplifiers and Lasers. , 0, , 31-40.		0