

# Hartmut G Roskos

## List of Publications by Year in descending order

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366  
papers

10,345  
citations

44066

48  
h-index

40976

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

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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

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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- $\mu$ 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 $f_{\text{T}}$ . 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 $\mu$ 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

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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 <sub>3</sub> 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

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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 <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> 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 <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> 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

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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 <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films on silicon at ultrahigh frequencies. Applied Physics Letters, 1994, 64, 3326-3328.	3.3	20
102	Oxygen control of dc-sputtered Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1</sub> Cu <sub>2</sub> O <sub>8-<math>\delta</math></sub> 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

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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 <sub>2</sub> 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 <sub>0.47</sub> In <sub>0.53</sub> 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



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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. <sup>3.3</sup>		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 <sub>2</sub> Sr <sub>2</sub> Ca <sub>n</sub> Cu <sub>n</sub> O <sub>4+2n</sub> + $\delta$ films on SrTiO <sub>3</sub> and LaAlO <sub>3</sub> . 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

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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 <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ 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- $\epsilon$ resistivity Si with SiO <sub>2</sub> 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
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