

# Hartmut G Roskos

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277  
papers

7,680  
citations

42  
h-index

80  
g-index

370  
ext. papers

9,391  
ext. citations

3  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
277	Can a terahertz metamaterial sensor be improved by ultra-strong coupling with a high-Q photonic resonator?. <i>Optics Express</i> , <b>2022</b> , 30, 13659-13672	3.3	0
276	Roadmap of Terahertz Imaging 2021. <i>Sensors</i> , <b>2021</b> , 21,	3.8	26
275	Antenna-coupled field-effect transistors as detectors for terahertz near-field microscopy. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1717-1724	5.1	4
274	Terahertz scattering-type near-field microscopy quantitatively determines the conductivity and charge carrier density of optically doped and impurity-doped silicon. <i>APL Photonics</i> , <b>2021</b> , 6, 126108	5.2	1
273	Direct nanoscopic observation of plasma waves in the channel of a graphene field-effect transistor. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 97	16.7	15
272	Terahertz photoconductive waveguide emitter with excitation by a tilted optical pulse front. <i>Optics Express</i> , <b>2020</b> , 28, 33673-33681	3.3	1
271	Passive Detection and Imaging of Human Body Radiation Using an Uncooled Field-Effect Transistor-Based THz Detector. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12
270	Intracavity third-harmonic generation in Si:B pumped by intense terahertz pulses. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
269	A High-Sensitivity AlGaIn/GaN HEMT Terahertz Detector With Integrated Broadband Bow-Tie Antenna. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2019</b> , 9, 430-444	3.4	46
268	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> , <b>2019</b> , 125, 194501	2.5	4
267	Enhancement of the Monolayer Tungsten Disulfide Exciton Photoluminescence with a Two-Dimensional Material/Air/Gallium Phosphide In-Plane Microcavity. <i>ACS Nano</i> , <b>2019</b> , 13, 5259-5267	16.7	13
266	Terahertz emission from biased AlGaIn/GaN high-electron-mobility transistors. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 151614	2.5	5
265	3D Fourier imaging based on 2D heterodyne detection at THz frequencies. <i>APL Photonics</i> , <b>2019</b> , 4, 106108	3.2	8
264	300-GHz in-line holography with high dynamic range <b>2019</b> ,		1
263	Fourier imaging with CW terahertz waves <b>2019</b> ,		1
262	300-GHz holography with heterodyne detection <b>2019</b> ,		1
261	Nonlocal collective ultrastrong interaction of plasmonic metamaterials and photons in a terahertz photonic crystal cavity. <i>Optics Express</i> , <b>2019</b> , 27, 24455-24468	3.3	8

260	Circuit-Based Hydrodynamic Modeling of AlGaIn/GaN HEMTs <b>2019</b> ,		2
259	Direct Near-Field Observation of Surface Plasmon Polaritons on Silver Nanowires. <i>ACS Omega</i> , <b>2019</b> , 4, 21962-21966	3.9	9
258	TeraFET multi-pixel THz array for a confocal imaging system <b>2019</b> ,		2
257	Coherent photo-induced phonon emission in the charge-density-wave state of K <sub>0.3</sub> MoO <sub>3</sub> . <i>New Journal of Physics</i> , <b>2019</b> , 21, 013013	2.9	0
256	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]. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 354-354	4.4	4
255	Terahertz Detection With a Low-Cost Packaged GaAs High-Electron-Mobility Transistor. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2019</b> , 9, 27-37	3.4	7
254	Field-effect transistors as electrically controllable nonlinear rectifiers for the characterization of terahertz pulses. <i>APL Photonics</i> , <b>2018</b> , 3, 051705	5.2	12
253	Towards gas sensing with vertically aligned carbon nanotubes interrogated by THz radiation pulses. <i>Lithuanian Journal of Physics</i> , <b>2018</b> , 58,	1.1	4
252	Dielectric properties of vertically aligned multi-walled carbon nanotubes in the terahertz and mid-infrared range. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 034004	3	10
251	Imaging and Spectroscopic Sensing with Low-Repetition-Rate Terahertz Pulses and GaN TeraFET Detectors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2018</b> , 39, 262-272	2.2	7
250	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> , <b>2018</b> , 7, 269-276	6.3	20
249	Direct near-field mapping of nano-sphere-excited leaky surface modes at anisotropic metasurface. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1092, 012165	0.3	
248	Near-Field Observation of Guided-Mode Resonances on a Metasurface via Dielectric Nanosphere Excitation. <i>ACS Photonics</i> , <b>2018</b> , 5, 4238-4243	6.3	2
247	Field-Effect Transistor Based Detectors for Power Monitoring of THz Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2018</b> , 8, 613-621	3.4	17
246	Sub-picosecond pulsed THz FET detector characterization in plasmonic detection regime based on autocorrelation technique. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 124013	1.8	8
245	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> , <b>2018</b> , 39, 1413-1416	4.4	36
244	Thermal noise-limited sensitivity of FET-based terahertz detectors <b>2017</b> ,		6
243	Phase-channel dynamics reveal the role of impurities and screening in a quasi-one-dimensional charge-density wave system. <i>Scientific Reports</i> , <b>2017</b> , 7, 2039	4.9	8

242	Hydrodynamic modelling of terahertz rectification in AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 906, 012023	0.3	5
241	Efficient Detection of 3 THz Radiation from Quantum Cascade Laser Using Silicon CMOS Detectors. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2017</b> , 38, 1183-1188	2.2	9
240	Enhanced performance of AlGa <sub>N</sub> /Ga <sub>N</sub> HEMT-Based THz detectors at room temperature and at low temperature <b>2017</b> ,		1
239	0.25- $\mu\text{m}$ Ga <sub>N</sub> TeraFETs Optimized as THz Power Detectors and Intensity-Gradient Sensors. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2016</b> , 6, 348-350	3.4	30
238	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. <i>Optics Express</i> , <b>2016</b> , 24, 15261-73	3.3	7
237	Optimization of the Design of Terahertz Detectors Based on Si CMOS and AlGa <sub>N</sub> /Ga <sub>N</sub> Field-Effect Transistors. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 1640013	0.5	10
236	How good would the conductivity of graphene have to be to make single-layer-graphene metamaterials for terahertz frequencies feasible?. <i>Carbon</i> , <b>2015</b> , 94, 301-308	10.4	30
235	Camera for High-Speed THz Imaging. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 986-997		27
234	The potential for sensitivity enhancement by the thermoelectric effect in carbon-nanotube and graphene Tera-FETs. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 647, 012004	0.3	8
233	Relativistic Doppler reflection as a probe for the initial relaxation of a non-equilibrium electron-hole plasma in silicon. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 647, 012016	0.3	0
232	High-sensitivity wideband THz detectors based on Ga <sub>N</sub> HEMTs with integrated bow-tie antennas <b>2015</b> ,		13
231	Terahertz rectification by plasmons and hot carriers in gated 2D electron gases <b>2015</b> ,		4
230	Ultrafast dynamic conductivity and scattering rate saturation of photoexcited charge carriers in silicon investigated with a midinfrared continuum probe. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	11
229	Exploration of Terahertz Imaging with Silicon MOSFETs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2014</b> , 35, 63-80	2.2	52
228	Antenna-integrated 0.6 THz FET direct detectors based on CVD graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 5834-81.5	1.5	137
227	20 fs gate width CVD graphene FETs for 0.6 THz detection <b>2014</b> ,		1
226	9.74-THz electronic Far-Infrared detection using Schottky barrier diodes in CMOS <b>2014</b> ,		11
225	Antenna-coupled field-effect transistors for multi-spectral terahertz imaging up to 4.25 THz. <i>Optics Express</i> , <b>2014</b> , 22, 19235-41	3.3	89

224	Relativistic Doppler frequency upconversion of terahertz pulses reflecting from a photoinduced plasma front in silicon. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	10
223	THz Active Imaging Systems with Real-Time Capabilities. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2014</b> , 153-187	0.2	4
222	Heterodyne and subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 093505	3.4	8
221	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> , <b>2013</b> , 15, 075023	2.9	42
220	Real-time CMOS terahertz camera employing plane-to-plane imaging with a focal-plane array of field-effect transistors <b>2013</b> ,		5
219	Terahertz frequency upconversion via relativistic Doppler reflection from a photoinduced plasma front in a solid-state medium. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	14
218	Terahertz responsivity and low-frequency noise in biased silicon field-effect transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153505	3.4	75
217	. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 124-132	4	35
216	Optimized Tera-FET detector performance based on an analytical device model verified up to 9 THz <b>2013</b> ,		4
215	Broadband terahertz spectroscopy: principles, fundamental research and potential for industrial applications. <i>European Journal of Physics</i> , <b>2013</b> , 34, S179-S199	0.8	31
214	Terahertz array imagers: towards the implementation of terahertz cameras with plasma-wave-based silicon MOSFET detectors <b>2013</b> , 231-271		5
213	Optimization of single-cycle terahertz generation in LiNbO3 for sub-50 femtosecond pump pulses. <i>Optics Express</i> , <b>2013</b> , 21, 6826-36	3.3	24
212	Recovery of ultra-broadband terahertz pulses from sum-frequency spectrograms using a generalized deconvolution method. <i>EPJ Web of Conferences</i> , <b>2013</b> , 41, 09011	0.3	4
211	Broadside-coupled triangular split-ring-resonators for terahertz sensing. <i>EPJ Applied Physics</i> , <b>2013</b> , 61, 30402	1.1	17
210	CMOS detector arrays for coherent THz imaging: From point-to-point towards plane-to-plane imaging configurations <b>2012</b> ,		1
209	Heterodyne and spectroscopic room temperature terahertz imaging using InGaAs bow-tie diodes <b>2012</b> ,		1
208	Terahertz sensing application by using planar split-ring-resonator structures. <i>Microsystem Technologies</i> , <b>2012</b> , 18, 2071-2076	1.7	37
207	CMOS integrated antenna-coupled field-effect-transistors for the detection of 0.2 to 4.3 THz <b>2012</b> ,		8

206	Terahertz detection and coherent imaging from 0.2 to 4.3 THz with silicon CMOS field-effect transistors <b>2012</b> ,		3
205	Detectors for terahertz multi-pixel coherent imaging and demonstration of real-time imaging with a 12x12-pixel CMOS array <b>2012</b> ,		9
204	Electric field distribution in biased GaAs microstructures with field-pinning layers. <i>Superlattices and Microstructures</i> , <b>2012</b> , 52, 1143-1154	2.8	1
203	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3834-3843	4.1	147
202	Effect of the Metallization on the Resonances of THz Fishnet Metamaterials. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2012</b> , 7,	2.5	8
201	DESIGN OF A TERAHERTZ POLARIZATION ROTATOR BASED ON A PERIODIC SEQUENCE OF CHIRAL-METAMATERIAL AND DIELECTRIC SLABS. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 124, 301-314	3.8	38
200	Dual-band polarization-independent sub-terahertz fishnet metamaterial. <i>Current Applied Physics</i> , <b>2012</b> , 12, 443-450	2.6	29
199	Towards monolithically integrated CMOS cameras for active imaging with 600 GHz radiation <b>2012</b> ,		3
198	CMOS detector arrays in a virtual 10-kilopixel camera for coherent terahertz real-time imaging. <i>Optics Letters</i> , <b>2012</b> , 37, 536-8	3	43
197	Terahertz Sensing and Imaging with Silicon Field-Effect Transistors up to 9 THz <b>2012</b> ,		2
196	Silicon CMOS-transistor-based detection up to 4.25 THz <b>2011</b> ,		5
195	Performance and performance variations of sub-1 THz detectors fabricated with 0.15 [micro sign]m CMOS foundry process. <i>Electronics Letters</i> , <b>2011</b> , 47, 661	1.1	50
194	Experimental demonstration of efficient pulsed terahertz emission from a stacked GaAs/AlGaAs p-i-n-i heterostructure. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 091103	3.4	13
193	Terahertz heterodyne imaging with InGaAs-based bow-tie diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 131101	3.4	34
192	. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2011</b> , 1, 183-200	3.4	152
191	Numerical and experimental investigation of fishnet-based metamaterial in a X-band waveguide. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 255101	3	21
190	Silicon CMOS-based THz detection <b>2011</b> ,		3
189	Terahertz propagation properties of free-standing woven-steel-mesh metamaterials: Pass-bands and signatures of abnormal group velocities. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064902	2.5	7

188	Strong Electric Field Driven Carrier Transport Non-Linearities in n-Type GaAs/AlGaAs Superlattices. <i>Acta Physica Polonica A</i> , <b>2011</b> , 119, 167-169	0.6	1
187	Hybrid Continuous-Wave Demodulating Multipixel Terahertz Imaging Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2022-2026	4.1	6
186	Terahertz heterodyne detection with silicon field-effect transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 042106	3.4	69
185	Illumination Aspects in Active Terahertz Imaging. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2008-2013	4.1	22
184	Redox-Active Ferrocenylboronium Polyelectrolytes with Main Chain Charge-Transfer Structure. <i>Macromolecules</i> , <b>2010</b> , 43, 5256-5261	5.5	26
183	Phase-locking of the beat signal of two distributed-feedback diode lasers to oscillators working in the MHz to THz range. <i>Optics Express</i> , <b>2010</b> , 18, 8621-9	3.3	27
182	Coherent electro-optical detection of terahertz radiation from an optical parametric oscillator. <i>Optics Express</i> , <b>2010</b> , 18, 11316-26	3.3	13
181	Terahertz white-light pulses from an air plasma photo-induced by incommensurate two-color optical fields. <i>Optics Express</i> , <b>2010</b> , 18, 23173-82	3.3	148
180	Pump/probe THz spectroscopy of the conductivity of TTF-TCNQ films <b>2010</b> ,		1
179	A CMOS focal-plane array for heterodyne terahertz imaging <b>2009</b> ,		20
178	Fast active THz-camera with global illumination <b>2009</b> ,		3
177	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. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	3
176	Active THz imaging system with improved frame rate <b>2009</b> ,		3
175	Fast active THz camera with range detection by frequency modulation <b>2009</b> ,		6
174	Synthesis, structure, photoluminescence and photoreactivity of 2,3-diphenyl-4-neopentyl-1-silacyclobut-2-enes. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 8625-45	4.8	11
173	Fast Active THz Cameras with Ranging Capabilities. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2009</b> , 30, 1281	2.2	27
172	Terahertz Imaging Detectors in CMOS Technology. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2009</b> , 30, 1269	2.2	23
171	A 0.65 THz Focal-Plane Array in a Quarter-Micron CMOS Process Technology. <i>IEEE Journal of Solid-State Circuits</i> , <b>2009</b> , 44, 1968-1976	5.5	276

170	Terahertz heterodyne detection with silicon CMOS transistors <b>2009</b> ,		3
169	High signal-to-noise-ratio electro-optical terahertz imaging system based on an optical demodulating detector array. <i>Optics Letters</i> , <b>2009</b> , 34, 3424-6	3	17
168	Characterizing large-area electro-optic crystals toward two-dimensional real-time terahertz imaging. <i>Applied Optics</i> , <b>2009</b> , 48, 5197-204	0.2	4
167	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> , <b>2009</b> , 105, 114511	2.5	202
166	Terahertz imaging with Si MOSFET focal-plane arrays <b>2009</b> ,		30
165	Quasioptical system design <b>2009</b> ,		2
164	Efficient distributed self-mixing in silicon CMOS transistors <b>2009</b> ,		1
163	Diagnosing water content in paper by terahertz radiation. <i>Optics Express</i> , <b>2008</b> , 16, 9060-6	3.3	95
162	Terahertz profilometry at 600 GHz with 0.5 microm depth resolution. <i>Optics Express</i> , <b>2008</b> , 16, 11289-93	3.3	30
161	Examining the terahertz signal from a photoexcited biased semiconductor superlattice for evidence of gain. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 021122	3.4	5
160	Berührungsfreie Prüfung von Materialoberflächen mit THz-Strahlung (Contactless Testing of the Surface of Materials). <i>TM Technisches Messen</i> , <b>2008</b> , 75, 45-50	0.7	2
159	Concept of internal mixing in semiconductor lasers and optical amplifiers for room-temperature generation of tunable continuous terahertz waves. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1968-1970	3	
158	Electron ensemble coherence and terahertz radiation amplification in a cascade superlattice structure. <i>Microelectronics Journal</i> , <b>2008</b> , 39, 624-627	1.8	2
157	Terahertz imaging with GaAs field-effect transistors. <i>Electronics Letters</i> , <b>2008</b> , 44, 408	1.1	46
156	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> , <b>2008</b> , 113, 769-776	0.6	3
155	Evidence for long-living charge carriers in electrically biased low-temperature-grown GaAs photoconductive switches. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 052101	3.4	13
154	Continuous-wave terahertz imaging with a hybrid system. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 091111	3.4	68
153	Broadband THz emission from gas plasmas induced by femtosecond optical pulses: From fundamentals to applications. <i>Laser and Photonics Reviews</i> , <b>2007</b> , 1, 349-368	8.3	359



152	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> , <b>2007</b> , 10, 125-136	2.7	15
151	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 $Cd(1-x)MnxTe$ . <i>International Journal of Modern Physics B</i> , <b>2007</b> , 21, 1632-1637	1.1	1
150	Continuous-wave terahertz imaging with a hybrid system <b>2007</b> ,		3
149	Towards an active real-time THz camera: first realization of a hybrid system <b>2007</b> ,		6
148	All-Optoelectronic Terahertz Imaging Systems and Examples of Their Application. <i>Proceedings of the IEEE</i> , <b>2007</b> , 95, 1576-1582	14.3	13
147	Radiation field screening in photoconductive antennae studied via pulsed terahertz emission spectroscopy. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 232506	3.4	51
146	Ballistic transport in semiconductor nanostructures: From quasi-classical oscillations to novel THz-emitters <b>2006</b> , 67, 199-205		
145	The coherent Hall effect of charge carriers in a superlattice: semiclassical description of the wavepacket dynamics. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 2487-2509	1.8	3
144	Motional-narrowing-type dephasing of electron and hole spins of itinerant excitons in magnetically doped II-VI bulk semiconductors. <i>Physical Review Letters</i> , <b>2006</b> , 96, 117203	7.4	15
143	Silicon lens-coupled bow-tie InGaAs-based broadband terahertz sensor operating at room temperature. <i>Electronics Letters</i> , <b>2006</b> , 42, 825	1.1	38
142	Ultrafast Fiske effect in semiconductor superlattices. <i>Physical Review Letters</i> , <b>2006</b> , 96, 137403	7.4	20
141	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> , <b>2006</b> , 243, 2405-2409	1.3	2
140	Determination of the carrier-envelope phase of few-cycle laser pulses with terahertz-emission spectroscopy. <i>Nature Physics</i> , <b>2006</b> , 2, 327-331	16.2	192
139	Comparative performance of terahertz emitters in amplifier-laser-based systems. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, S134-S141	1.8	51
138	Large-area electro-optic ZnTe terahertz emitters. <i>Optics Express</i> , <b>2005</b> , 13, 5353-62	3.3	113
137	A Quantum Optical XOR Gate <b>2005</b> , 418-424		
136	Spin-conserving carrier recombination in conjugated polymers. <i>Nature Materials</i> , <b>2005</b> , 4, 340-6	27	167
135	Picosecond energy relaxation in. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 1297-1299	2.8	2

134	The evolution of the electric field in an optically excited semiconductor superlattice. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 3055-3058		
133	THz-emitter based on ballistic transport in nano-pin diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 965-969	1.6	3
132	Electro-optic investigation of the Coherent Hall Effect in semiconductor superlattices. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 1175-1178	1.3	6
131	THz-photomixer based on quasi-ballistic transport. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, S178-S190	4	1
130	Time-resolved photocurrent spectroscopy of the evolution of the electric field in optically excited superlattices and the prospects for Bloch gain. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 102103	3.4	11
129	Efficient Terahertz Pulse Generation in Laser-Induced Gas Plasmas. <i>Acta Physica Polonica A</i> , <b>2005</b> , 107, 99-108	0.6	28
128	Ultrafast Optical and Magneto-Optical Dynamics in Colossal-Magnetoresistance Manganites. <i>Acta Physica Polonica A</i> , <b>2005</b> , 107, 211-214	0.6	
127	Dynamics of the Electric Field in a GaAs/AlGaAs Superlattice after Femtosecond Optical Excitation: Application of Time-Resolved Spectroscopic Techniques. <i>Acta Physica Polonica A</i> , <b>2005</b> , 107, 250-255	0.6	
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