Harald Schneider

List of Publications by Year
in descending order

330 papers	6,295 citations	94433 37 h-index	98798 67 g-index
337 all docs	337 docs citations	337 times ranked	4873 citing authors

#	Article	IF	Citations
1	A new class of integrable systems and its relation to solitons. Annals of Physics, 1986, 170, 370-405.	2.8	369
2	Thermionic emission and Gaussian transport of holes in a GaAs/AlxGa1âˆ’xAs multiple-quantum-well structure. Physical Review B, 1988, 38, 6160-6165.	3.2	299
3	Carrier Relaxation in Epitaxial Graphene Photoexcited Near the Dirac Point. Physical Review Letters, 2011, 107, 237401.	7.8	269
4	Multimode regimes in quantum cascade lasers: From coherent instabilities to spatial hole burning. Physical Review A, 2008, 77, .	2.5	184
5	Ultrafast graphene-based broadband THz detector. Applied Physics Letters, 2013, 103, .	3.3	174
6	Mode-locked pulses from mid-infrared Quantum Cascade Lasers. Optics Express, 2009, 17, 12929.	3.4	168
7	High-Field High-Repetition-Rate Sources for the Coherent THz Control of Matter. Scientific Reports, 2016, 6, 22256.	3.3	121
8	Observation of the Intraexciton Autler-Townes Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>GaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>AlGaAs</mml:mi></mml:math>Semiconductor Quantum Wells. Physical Review Letters, 2010, 105, 167401.	7.8	113
9	Resonance-induced delocalization of electrons in GaAs-AlAs superlattices. Physical Review Letters, 1990, 65, 2720-2723.	7.8	108
10	Demonstration of a Broadband Photodetector Based on a Twoâ€Dimensional Metalâ€“Organic Framework. Advanced Materials, 2020, 32, e1907063.	21.0	103
11	Optical studies of electric field domains in GaAs-AlxGa1âˆ’xAs superlattices. Physical Review B, 1990, 41, 2890-2899.	3.2	99
12	Intersubband absorption and infrared photodetection at 3.5 and 4.2 Î¼m in GaAs quantum wells. Applied Physics Letters, 1991, 58, 2234-2236.	3.3	95
13	Nonthermal occupation of higher subbands in semiconductor superlattices via sequential resonant tunneling. Physical Review Letters, 1990, 64, 2426-2429.	7.8	87
14	Carrier dynamics in Landau-quantized graphene featuring strong Auger scattering. Nature Physics, 2015, 11, 75-81.	16.7	79
15	Room-temperature short-wavelength infrared Si photodetector. Scientific Reports, 2017, 7, 43688.	3.3	79
16	Observation of extremely long electron-spin-relaxation times inp-type Î´-doped GaAs/AlxGa1âˆ’xAs double heterostructures. Physical Review B, 1993, 47, 4786-4789.	3.2	78
17	Widely tunable GaAs bandgap via strain engineering in core/shell nanowires with large lattice mismatch. Nature Communications, 2019, 10, 2793.	12.8	78
18	Anisotropy of Excitation and Relaxation of Photogenerated Charge Carriers in Graphene. Nano Letters, 2014, 14, 1504-1507.	9.1	77

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19	Electroâ€optical multistability in GaAs/AlAs superlattices at room temperature. Applied Physics Letters, 1990, 56, 605-607.	3.3	68
20	Terahertz Bessel-Gauss beams of radial and azimuthal polarization from microstructured photoconductive antennas. Optics Express, 2009, 17, 1571.	3.4	68
21	Resonant and non-resonant tunneling in multi quantum well structures. Superlattices and Microstructures, 1989, 5, 383-396.	3.1	67
22	Photovoltaic quantum well infrared photodetectors: The four-zone scheme. Applied Physics Letters, 1997, 71, 246-248.	3.3	63
23	Time-resolved spectroscopy on epitaxial graphene in the infrared spectral range: relaxation dynamics and saturation behavior. Journal of Physics Condensed Matter, 2013, 25, 054202.	1.8	59
24	Generation of subpicosecond infrared pulses tunable between 5.2 Î¼m and 18 Î¼m at a repetition rate of 76 MHz. Applied Physics B: Lasers and Optics, 1998, 66, 27-30.	2.2	58
25	QWIP FPAs for high-performance thermal imaging. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 101-107.	2.7	56
26	Optical detection of highâ€field domains in GaAs/AlAs superlattices. Applied Physics Letters, 1989, 54, 1757-1759.	3.3	55
27	Intersublevel Spectroscopy on Single InAs-Quantum Dots by Terahertz Near-Field Microscopy. Nano Letters, 2012, 12, 4336-4340.	9.1	51
28	Twoâ€color GaAs/(AlGa)As quantum well infrared detector with voltageâ€tunable spectral sensitivity at 3â€"5 and 8â€"12 Î¼m. Applied Physics Letters, 1992, 61, 666-668.	3.3	49
29	Plasmonic Superlensing in Doped GaAs. Nano Letters, 2015, 15, 1057-1061.	9.1	48
30	Universal phase relation between longitudinal and transverse fields observed in focused terahertz beams. New Journal of Physics, 2012, 14, 103049.	2.9	47
31	Influence of optical interference on quantum well infrared photodetectors in a 45Â° waveguide geometry. Applied Physics Letters, 1999, 74, 16-18.	3.3	45
32	Extended Infrared Photoresponse in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Te</mml:mi></mml:math>-Hyperdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Si</mml:mi></mml:math>at Room Temperature. Physical Review Applied, 2018, 10, .	3.8	45
33	Effective Hexagonal Boron Nitride Passivation of Few-Layered InSe and GaSe to Enhance Their Electronic and Optical Properties. ACS Applied Materials & Interfaces, 2019, 11, 43480-43487.	8.0	44
34	Generation and Detection of THz Radiation With Scalable Antennas Based on GaAs Substrates With Different Carrier Lifetimes. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 449-457.	2.9	41
35	Slow Noncollinear Coulomb Scattering in the Vicinity of the Dirac Point in Graphene. Physical Review Letters, 2016, 117, 087401.	7.8	40
36	Coexistence of Wannier-Stark transitions and miniband Franz-Keldysh oscillations in strongly coupled GaAs-AlAs superlattices. Physical Review Letters, 1994, 72, 2769-2772.	7.8	39

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37	Ten years of QWIP development at Fraunhofer IAF. Infrared Physics and Technology, 2001, 42, 283-289.	2.9	38
38	Mode-locked short pulses from an 8Âμm wavelength semiconductor laser. Nature Communications, 2020, 11, 5788.	12.8	37
39	Up to 70 THz bandwidth from an implanted Ge photoconductive antenna excited by a femtosecond Er:fibre laser. Light: Science and Applications, 2020, 9, 30.	16.6	37
40	Resonant Tunnelling and Miniband Conduction in GaAs/AlAs Superlattices Studied by Electrical Time-Of-Flight Techniques. Europhysics Letters, 1989, 8, 575-580.	2.0	36
41	Two-dimensional hole gas and Fermi-edge singularity in Be Î´-doped GaAs. Physical Review B, 1993, 47, 9629-9640.	3.2	36
42	Coherent terahertz detection with a large-area photoconductive antenna. Applied Physics Letters, 2007, 91, .	3.3	36
43	Successive Wannier-Stark localization and excitonic enhancement of intersubband absorption in a short-period GaAs/AlAs superlattice. Solid State Communications, 1989, 72, 935-939.	1.9	35
44	Franz-Keldysh oscillations and Wannier-Stark localization in GaAs/AlAs superlattices with single-monolayer AlAs barriers. Physical Review B, 1992, 45, 6329-6332.	3.2	35
45	Electrical and optical timeâ€ofâ€flight experiments in GaAs/AlAs superlattices. Applied Physics Letters, 1989, 54, 2656-2658.	3.3	34
46	Study of lifetimes and photoconductivity relaxation in heterostructures with Hg x Cd1 âˆ' x Te/Cd y Hg1 âˆ' y Te quantum wells. Semiconductors, 2012, 46, 1362-1366.	0.5	34
47	Influences of MBE growth processes on photovoltaic 3-5 /spl mu/m intersubband photodetectors. IEEE Transactions on Electron Devices, 1994, 41, 511-518.	3.0	33
48	A 10 Î¼m GaAs/AlxGa1âˆ'xAs intersubband photodetector operating at zero bias voltage. Applied Physics Letters, 1996, 68, 973-975.	3.3	33
49	High-speed infrared detection by uncooled photovoltaic quantum well infrared photodetectors. Applied Physics Letters, 1997, 70, 1602-1604.	3.3	33
50	Third-generation focal plane array IR detection modules and applications. , 2004, 5406, 184.		33
51	Spaceâ€charge effects in photovoltaic double barrier quantum well infrared detectors. Applied Physics Letters, 1993, 63, 782-784.	3.3	32
52	Coexistence of the Franz-Keldysh and Wannier-Stark effect in semiconductor superlattices. Physical Review B, 1995, 52, 17352-17365.	3.2	32
53	Gouy phase shift of a tightly focused, radially polarized beam. Optica, 2016, 3, 35.	9.3	32
54	Sequential resonant tunneling of holes in GaAs-AlAs superlattices. Physical Review B, 1989, 40, 10040-10043.	3.2	31

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55	Noise gain and detectivity of n-type GaAs/AlAs/AlGaAs quantum well infrared photodetectors. Applied Physics Letters, 1998, 73, 1251-1253.	3.3	31
56	Gapless Broadband Terahertz Emission from a Germanium Photoconductive Emitter. ACS Photonics, 2018, 5, 2718-2723.	6.6	30
57	Stark localization of a pair of coupled minibands in a GaAs/AlAs double-period superlattice. Physical Review B, 1991, 44, 5943-5946.	3.2	29
58	Semiconductor quantum well excitons in strong, narrowband terahertz fields. New Journal of Physics, 2013, 15, 065007.	2.9	29
59	Analysis of the transport mechanism in GaAs/AlGaAs quantumâ€well infrared photodetection structures using time resolved photocurrent measurements. Applied Physics Letters, 1996, 69, 931-933.	3.3	28
60	Improvement of Î»â‰ˆ5â€‰Î¼m quantum cascade lasers by blocking barriers in the active regions. Applied Physics Letters, 2002, 80, 2048-2050.	3.3	28
61	Dual-band QWIP focal plane array for the second and third atmospheric windows. Infrared Physics and Technology, 2005, 47, 53-58.	2.9	28
62	High electron mobility in strained GaAs nanowires. Nature Communications, 2021, 12, 6642.	12.8	28
63	Photovoltaic intersubband detectors for 3-5 mu m using GaAs quantum wells sandwiched between AlAs tunnel barriers. Semiconductor Science and Technology, 1991, 6, C120-C123.	2.0	27
64	Fano Signatures in the Intersubband Terahertz Response of Optically Excited Semiconductor Quantum Wells. Physical Review Letters, 2009, 102, 127403.	7.8	27
65	Observation of Forbidden Exciton Transitions Mediated by Coulomb Interactions in Photoexcited Semiconductor Quantum Wells. Physical Review Letters, 2013, 110, 137404.	7.8	27
66	Decoupling the Two Roles of Ga Droplets in the Self-Catalyzed Growth of GaAs Nanowires on SiO_{<i>x</i>}/Si(111) Substrates. Crystal Growth and Design, 2017, 17, 5276-5282.	3.0	26
67	Carrier Dynamics in Graphene: Ultrafast Manyâ€Particle Phenomena. Annalen Der Physik, 2017, 529, 1700038.	2.4	26
68	Ultrafast intersubband photocurrent response in quantum-well infrared photodetectors. Applied Physics Letters, 1997, 71, 641-643.	3.3	25
69	Ultrasensitive femtosecond two-photon detector with resonantly enhanced nonlinear absorption. Optics Letters, 2005, 30, 287.	3.3	25
70	Femtosecond pump-probe spectroscopy of intersubband relaxation dynamics in narrow InGaAsâˆ•AlAsSb quantum well structures. Applied Physics Letters, 2006, 89, 171104.	3.3	25
71	Large area photoconductive terahertz emitter for 1.55 Î¼m excitation based on an InGaAs heterostructure. Nanotechnology, 2013, 24, 214007.	2.6	25
72	Four-Wave Mixing in Landau-Quantized Graphene. Nano Letters, 2017, 17, 2184-2188.	9.1	25

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73	Terahertz two-photon quantum well infrared photodetector. Optics Express, 2009, 17, 12279.	3.4	24
74	Optically induced electric-field domains by bound-to-continuum transitions inn-type multiple quantum wells. Physical Review B, 1998, 57, R15096-R15099.	3.2	23
75	Quantum Cascade Lasers for the Mid-infrared Spectral Range: Devices and Applications. Advances in Solid State Physics, 0, , 351-368.	0.8	23
76	Quantitative determination of the charge carrier concentration of ion implanted silicon by IR-near-field spectroscopy. Optics Express, 2010, 18, 26206.	3.4	23
77	Simultaneous time and wavelength resolved spectroscopy under two-colour near infrared and terahertz excitation. Review of Scientific Instruments, 2011, 82, 103107.	1.3	23
78	Universal ultrafast detector for short optical pulses based on graphene. Optics Express, 2015, 23, 28728.	3.4	23
79	Optimized performance of quantum well intersubband infrared detectors: Photovoltaic versus photoconductive operation. Journal of Applied Physics, 1993, 74, 4789-4791.	2.5	22
80	Capture dynamics and far-infrared response in photovoltaic quantum well intersubband photodetectors. Superlattices and Microstructures, 1996, 19, 347-356.	3.1	22
81	Noise current investigations of gâ€“r noise limited and shot noise limited QWIPs. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 124-129.	2.7	22
82	Resonant two-photon photoemission in quantum-well infrared photodetectors. Applied Physics Letters, 2004, 84, 5162-5164.	3.3	22
83	Resonant enhancement of second order sideband generation for intraexcitonic transitions in GaAs/AlGaAs multiple quantum wells. Applied Physics Letters, 2009, 94, 241105.	3.3	22
84	Intracavity third-harmonic generation in Si:B pumped by intense terahertz pulses. Physical Review B, 2020, 102, .	3.2	21
85	Enhanced Trion Emission in Monolayer MoSe₂ by Constructing a Typeâ€ł Van Der Waals Heterostructure. Advanced Functional Materials, 2021, 31, 2104960.	14.9	21
86	Photon echoes and free-polarization decay in GaAs/AlAs multiple quantum wells: Polarization and time dependence. Physical Review B, 1994, 49, 17050-17054.	3.2	20
87	Third-generation focal plane array IR detection modules at AIM. , 2001, 4369, 547.		20
88	Droplet-Confined Alternate Pulsed Epitaxy of GaAs Nanowires on Si Substrates down to CMOS-Compatible Temperatures. Nano Letters, 2016, 16, 4032-4039.	9.1	20
89	Low-power photocurrent nonlinearity in quantum well infrared detectors. Applied Physics Letters, 1997, 71, 2011-2013.	3.3	19
90	Quadratic autocorrelation of free-electron laser radiation and photocurrent saturation in two-photon quantum well infrared photodetectors. Applied Physics Letters, 2006, 89, 133508.	3.3	19

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91	High-field splitting of the cyclotron resonance absorption in strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>-InGaAs</mml:mtext><mml:mo>/</mml:mo><mml:mtext>GaAs</m wells. Physical Review B, 2009, 79, .	3.2	19
92	Nonthermal nature of photoinduced insulator-to-metal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbO</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2019, 99, .	3.2	19
93	Siliconâ€Based Intermediateâ€Band Infrared Photodetector Realized by Te Hyperdoping. Advanced Optical Materials, 2021, 9, 2001546.	7.3	19
94	Diffusive electrical conduction in highâ€speedpâ€iâ€nphotodetectors. Applied Physics Letters, 1992, 60, 2648-2650.	3.3	18
95	Space charge buildup in quantum-well infrared photodetectors leading to low-power nonlinear photoresponse. IEEE Photonics Technology Letters, 1998, 10, 1470-1472.	2.5	18
96	Terahertz generation and detection with InGaAs-based large-area photoconductive devices excited at 1.55â€‰<i>Î¼</i>m. Applied Physics Letters, 2013, 103, .	3.3	18
97	A Twoâ€Dimensional Polyimideâ€Graphene Heterostructure with Ultraâ€fast Interlayer Charge Transfer. Angewandte Chemie - International Edition, 2021, 60, 13859-13864.	13.8	18
98	Intrinsic radiative lifetimes of donor-acceptor pair excitations in diamond. Physical Review B, 1995, 51, 16677-16680.	3.2	17
99	Intraband carrier dynamics in Landau-quantized multilayer epitaxial graphene. New Journal of Physics, 2014, 16, 123021.	2.9	17
100	Improved electrode design for interdigitated large-area photoconductive terahertz emitters. Optics Express, 2019, 27, 13108.	3.4	17
101	Transport asymmetry and photovoltaic response in (AlGa)As/AlAs/GaAs/(AlGa)As singleâ€barrier quantumâ€well infrared detectors. Applied Physics Letters, 1992, 60, 1471-1473.	3.3	16
102	Low-noise QWIPs for FPA sensors with high thermal resolution. , 2000, 4130, 353.		16
103	Avalanche multiplication due to impact ionization in quantum-well infrared photodetectors: A quantitative approach. Applied Physics Letters, 2003, 82, 2907-2909.	3.3	16
104	Theory of avalanche multiplication and excess noise in quantum-well infrared photodetectors. Applied Physics Letters, 2003, 82, 4376-4378.	3.3	16
105	Two-photon photocurrent spectroscopy of electron intersubband relaxation and dephasing in quantum wells. Applied Physics Letters, 2007, 91, .	3.3	16
106	Photoluminescence dynamics in GaAs/AlGaAs quantum wells under pulsed intersubband excitation. Applied Physics Letters, 2011, 99, .	3.3	16
107	Systematic investigation of terahertz-induced excitonic Rabi splitting. Physical Review B, 2014, 89, .	3.2	16
108	Infrared nanoscopy down to liquid helium temperatures. Review of Scientific Instruments, 2018, 89, 033702.	1.3	16

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109	Strain relaxation in highâ€speedpâ€iâ€nphotodetectors with In0.2Ga0.8As/GaAs multiple quantum wells. Applied Physics Letters, 1993, 63, 2920-2922.	3.3	15
110	Influence of the recharging process on the dark current noise in quantum-well infrared photodetectors. Applied Physics Letters, 2002, 80, 862-864.	3.3	15
111	Compact magnetospectrometer for pulsed magnets based on infrared quantum cascade lasers. Review of Scientific Instruments, 2011, 82, 033108.	1.3	15
112	Plasmonic efficiency enhancement at the anode of strip line photoconductive terahertz emitters. Optics Express, 2016, 24, 22628.	3.4	15
113	Low-temperature intracenter relaxation times of shallow donors in germanium. JETP Letters, 2017, 106, 571-575.	1.4	15
114	A simple route to synchronized nucleation of self-catalyzed GaAs nanowires on silicon for sub-Poissonian length distributions. Nanotechnology, 2018, 29, 504004.	2.6	15
115	Ultrafast response of photoexcited carriers in VO₂ at high-pressure. New Journal of Physics, 2018, 20, 083003.	2.9	15
116	Exciton localization in MoSe2monolayers induced by adsorbed gas molecules. Applied Physics Letters, 2019, 114, 172106.	3.3	15
117	Integrable relativistic N-particle systems in an external potential. Physica D: Nonlinear Phenomena, 1987, 26, 203-209.	2.8	14
118	Electric-field effects on above-barrier states in a GaAs/AlxGa1â^'xAs superlattice. Physical Review B, 1995, 51, 4236-4241.	3.2	14
119	Role of Transient Reflection in Graphene Nonlinear Infrared Optics. ACS Photonics, 2016, 3, 1069-1075.	6.6	14
120	Investigation of an Opposed-Contact GaAs Photoconductive Semiconductor Switch at 1-kHz Excitation. IEEE Transactions on Electron Devices, 2021, 68, 2355-2359.	3.0	14
121	Photoluminescence dynamics in few-layer InSe. Physical Review Materials, 2020, 4, .	2.4	14
122	High-resolution QWIP FPAs for the 8- to 12-Î¼m and 3- to 5-Î¼m regimes. , 2003, 4820, 297.		13
123	Room-temperature midinfrared two-photon photodetector. Applied Physics Letters, 2008, 93, .	3.3	13
124	Determination of the electron capture time in quantum-well infrared photodetectors using time-resolved photocurrent measurements. Applied Physics Letters, 2003, 82, 3925-3927.	3.3	12
125	Mid-infrared pump-related electric-field domains in GaAs/(Al,Ga)As quantum-cascade structures for terahertz lasing without population inversion. Journal of Applied Physics, 2011, 110, 103104.	2.5	12
126	High-Temperature Photon-Noise-Limited Performance Terahertz Quantum-Well Photodetectors. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 715-724.	3.1	12

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127	Two-photon quantum well infrared photodetectors below 6 THz. Infrared Physics and Technology, 2015, 70, 30-33.	2.9	12
128	First Terahertz-range Experiments on Pump â€“ Probe Setup at Novosibirsk free Electron Laser. Physics Procedia, 2016, 84, 152-156.	1.2	12
129	Nonlinear Charge Transport in InGaAs Nanowires at Terahertz Frequencies. Nano Letters, 2020, 20, 3225-3231.	9.1	12
130	Giant impact of self-photothermal on light-induced ultrafast insulator-to-metal transition in VO₂ nanofilms at terahertz frequency. Optics Express, 2018, 26, 28051.	3.4	12
131	Triply resonant Raman scattering by LO phonons in a Wannier-Stark ladder. Physical Review B, 1990, 42, 11430-11433.	3.2	11
132	Tunneling resonances and miniband conduction in superlattices. Surface Science, 1990, 228, 362-369.	1.9	11
133	Voltageâ€tunable twoâ€color detection by interband and intersubband transitions in a pâ€iâ€nâ€iâ€n structure. Applied Physics Letters, 1996, 68, 1832-1834.	3.3	11
134	<title>Responsivity and gain in InGaAs/GaAs-QWIPs and GaAs/AlGaAs-QWIPs: a comparative study</title>. , 2001, 4288, 379.		11
135	High-resolution 3â€“5â€…[micro sign]mâˆ•8â€“12â€…[micro sign]m dual-band quantum well infrared photodetector array. Electronics Letters, 2004, 40, 831.	1.0	11
136	High responsivity, dual-band response and intraband avalanche multiplication in InGaAs/InP quantum well photodetectors. Semiconductor Science and Technology, 2004, 19, 442-445.	2.0	11
137	Master equation approach of classical noise in intersubband detectors. Physical Review B, 2012, 85, .	3.2	11
138	Strain-relaxed, high-speed In0.2Ga0.8As MQW p-i-n photodetectors grown by MBE. Journal of Crystal Growth, 1993, 127, 62-67.	1.5	10
139	Ballistic effects and intersubband excitations in multiple quantum well structures. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 28-34.	2.7	10
140	Swept away [quantum-well infrared photodetectors]. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2003, 19, 9-16.	0.4	10
141	Third generation focal plane array IR detection modules and applications (Invited Paper). , 2005, , .		10
142	Autocorrelation measurements of free-electron laser radiation using a two-photon QWIP. Infrared Physics and Technology, 2007, 50, 95-99.	2.9	10
143	Ultrafast carrier capture in InGaAs quantum posts. Applied Physics Letters, 2009, 95, .	3.3	10
144	Ultrafast Processes in Graphene: From Fundamental Manybody Interactions to Device Applications. Annalen Der Physik, 2017, 529, 1700022.	2.4	10

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145	Symmetry-Breaking Supercollisions in Landau-Quantized Graphene. Physical Review Letters, 2017, 119, 067405.	7.8	10
146	Enhanced photoresponses of an optically driven VO2-based terahertz wave modulator near percolation threshold. Applied Physics Letters, 2018, 113, .	3.3	10
147	Absorption edge, urbach tail, and electron-phonon interactions in topological insulator Bi2Se3 and band insulator (Bi0.89In0.11)2Se3. Applied Physics Letters, 2019, 114, .	3.3	10
148	Nonlinear plasmonic response of doped nanowires observed by infrared nanospectroscopy. Nanotechnology, 2019, 30, 084003.	2.6	10
149	Roomâ€temperature enhancement of electroâ€optical modulation by resonanceâ€induced exciton mixing in a GaAs/AlAs superlattice. Applied Physics Letters, 1991, 58, 1994-1996.	3.3	9
150	Far-infrared emission by resonant-polaron effects in narrow-band-gapHg1âˆ'xCdxTe. Physical Review Letters, 1991, 67, 1310-1313.	7.8	9
151	III-V semiconductor quantum well and superlattice detectors. , 1998, 3436, 348.		9
152	Domain pinning in GaAsâˆ•AlGaAs quantum well infrared photodetectors. Applied Physics Letters, 2006, 88, 051114.	3.3	9
153	Intersubband relaxation dynamics in single and double quantum wells based on strained InGaAsâˆ•AlAsâˆ•AlAsSb. Applied Physics Letters, 2007, 91, .	3.3	9
154	Science at the Dresden High Magnetic Field Laboratory. AIP Conference Proceedings, 2008, , .	0.4	9
155	Terahertz emission from a large-area GaInAsN emitter. Applied Physics Letters, 2008, 93, 101102.	3.3	9
156	Terahertz activated luminescence of trapped carriers in InGaAs/GaAs quantum dots. Applied Physics Letters, 2010, 97, 031101.	3.3	9
157	Terahertz nonlinear optics using intraâ€excitonic quantum well transitions: Sideband generation and AC Stark splitting. Physica Status Solidi (B): Basic Research, 2011, 248, 859-862.	1.5	9
158	Direct determination of the electron effective mass of GaAsN by terahertz cyclotron resonance spectroscopy. Applied Physics Letters, 2015, 107, .	3.3	9
159	Dynamics of nonequilibrium electrons on neutral center states of interstitial magnesium donors in silicon. Physical Review B, 2016, 94, .	3.2	9
160	Electron dynamics in In_{<i>x</i>}Ga_{1âˆ'<i>x</i>}As shells around GaAs nanowires probed by terahertz spectroscopy. Nanotechnology, 2019, 30, 244004.	2.6	9
161	Terahertz-Induced Energy Transfer from Hot Carriers to Trions in a MoSe2 Monolayer. ACS Photonics, 0, , .	6.6	9
162	Exciton Impact Ionization and Electric Conductivity in Germanium at Low Temperature. Physica Status Solidi (B): Basic Research, 1985, 129, 687-695.	1.5	8

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163	Voltage-tunable, two-band mid-infrared detection based on Si/SiGe quantum-cascade injector structures. Applied Physics Letters, 2003, 83, 3879-3881.	3.3	8
164	Nearâ€roomâ€temperature photonâ€noiseâ€limited quantum well infrared photodetector. Laser and Photonics Reviews, 2014, 8, 297-302.	8.7	8
165	Dark current mechanism of terahertz quantum-well photodetectors. Journal of Applied Physics, 2014, 116, .	2.5	8
166	Single-pulse picking at kHz repetition rates using a Ge plasma switch at the free-electron laser FELBE. Review of Scientific Instruments, 2015, 86, 063103.	1.3	8
167	Dynamics of nonâ€equilibrium charge carriers in pâ€germanium doped by gallium. Physica Status Solidi (B): Basic Research, 2017, 254, 1600803.	1.5	8
168	Transient Characteristics of Interdigitated GaAs Photoconductive Semiconductor Switch at 1-kHz Excitation. IEEE Electron Device Letters, 2019, 40, 1136-1138.	3.9	8
169	Electron transport studies on In0.30Ga0.70As/GaAs-quantum-well infrared photodetectors using time-resolved photocurrent measurements. Applied Physics Letters, 2002, 81, 3401-3403.	3.3	7
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