Heinz-Wilhelm HÃ¼bers

List of Publications by Year
in descending order

165	3,615	136740	168136
papers	citations	32 h-index	53 g-index

176	176	176	2338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Terahertz Heterodyne Receivers. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 378-391.	1.9	160
2	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. Optics Express, 2005, 13, 5890.	1.7	156
3	Stimulated Emission from Donor Transitions in Silicon. Physical Review Letters, 2000, 84, 5220-5223.	2.9	153
4	High-resolution gas phase spectroscopy with a distributed feedback terahertz quantum cascade laser. Applied Physics Letters, 2006, 89, 061115.	1.5	141
5	Terahertz Techniques. Springer Series in Optical Sciences, 2012, , .	0.5	124
6	Terahertz Performance of Integrated Lens Antennas With a Hot-Electron Bolometer. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 239-247.	2.9	106
7	Terahertz lasers based on germanium and silicon. Semiconductor Science and Technology, 2005, 20, S211-S221.	1.0	105
8	4.7-THz Superconducting Hot Electron Bolometer Waveguide Mixer. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 207-214.	2.0	101
9	4.7-THz Local Oscillator for the GREAT Heterodyne Spectrometer on SOFIA. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 539-545.	2.0	89
10	A compact, continuous-wave terahertz source based on a quantum-cascade laser and a miniature cryocooler. Optics Express, 2010, 18, 10177.	1.7	85
11	Terahertz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer in a pulse tube cooler. Applied Physics Letters, 2008, 93, 141108.	1.5	71
12	The upGREAT Dual Frequency Heterodyne Arrays for SOFIA. Journal of Astronomical Instrumentation, 2018, 07, .	0.8	69
13	Submegahertz frequency stabilization of a terahertz quantum cascade laser to a molecular absorption line. Applied Physics Letters, 2010, 96, .	1.5	63
14	Gas Spectroscopy System for Breath Analysis at mm-wave/THz Using SiGe BiCMOS Circuits. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1807-1818.	2.9	63
15	Parylene anti-reflection coating of a quasi-optical hot-electron-bolometric mixer at terahertz frequencies. Infrared Physics and Technology, 2001, 42, 41-47.	1.3	61
16	Analysis of Human Breath by Millimeter-Wave/Terahertz Spectroscopy. Sensors, 2019, 19, 2719.	2.1	60
17	Stimulated Terahertz Stokes Emission of Silicon Crystals Doped with Antimony Donors. Physical Review Letters, 2006, 96, 037404.	2.9	57
18	Towards traceable radiometry in the terahertz region. Metrologia, 2009, 46, S160-S164.	0.6	57

#	Article	IF	Citations
19	Far-infrared stimulated emission from optically excited bismuth donors in silicon. Applied Physics Letters, 2002, 80, 4717-4719.	1.5	55
20	High Resolution Terahertz Spectroscopy with Quantum Cascade Lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 325-341.	1.2	55
21	Fast 2-D and 3-D Terahertz Imaging With a Quantum-Cascade Laser and a Scanning Mirror. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 617-624.	2.0	53
22	Si:P as a laboratory analogue for hydrogen on high magnetic field white dwarf stars. Nature Communications, 2013, 4, 1469.	5.8	50
23	Terahertz gas-phase spectroscopy: chemometrics for security and medical applications. Analyst, The, 2015, 140, 213-222.	1.7	46
24	Stimulated terahertz emission from group-V donors in silicon under intracenter photoexcitation. Applied Physics Letters, 2002, 80, 3512-3514.	1.5	42
25	Frequency modulation spectroscopy with a THz quantum-cascade laser. Optics Express, 2013, 21, 32199.	1.7	42
26	Stimulated terahertz emission from arsenic donors in silicon. Applied Physics Letters, 2004, 84, 3600-3602.	1.5	41
27	Quantum-cascade lasers as local oscillators for heterodyne spectrometers in the spectral range around 4.745 THz. Semiconductor Science and Technology, 2013, 28, 035011.	1.0	41
28	245-GHz Transmitter Array in SiGe BiCMOS for Gas Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 318-327.	2.0	40
29	[¹²Cii]Â and [¹³Câ€‰ii]Â 158Î¼m emission from NGC 2024: Large column densities of ionized carbon. Astronomy and Astrophysics, 2012, 542, L16.	2.1	39
30	Terahertz optically pumped Si:Sb laser. Journal of Applied Physics, 2002, 92, 5632-5634.	1.1	37
31	Towards THz integrated photonics. Nature Photonics, 2010, 4, 503-504.	15.6	34
32	The physical principles of terahertz silicon lasers based on intracenter transitions. Physica Status Solidi (B): Basic Research, 2013, 250, 9-36.	0.7	34
33	First detection of the 63Î¼m atomic oxygen line in the thermosphere of Mars with GREAT/SOFIA. Astronomy and Astrophysics, 2015, 580, L10.	2.1	34
34	Terahertz Spectroscopy: System and Sensitivity Considerations. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 321-331.	2.0	31
35	High-resolution terahertz spectroscopy with quantum-cascade lasers. Journal of Applied Physics, 2019, 125, 151401.	1.1	31
36	Fast continuous tuning of terahertz quantum-cascade lasers by rear-facet illumination. Applied Physics Letters, 2016, 108, .	1.5	30

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37	Population inversion and far-infrared emission from optically pumped silicon. Applied Physics Letters, 1999, 74, 2655-2657.	1.5	27
38	Tunable 245ÂGHz transmitter and receiver in SiGe technology for gas spectroscopy. Electronics Letters, 2014, 50, 881-882.	0.5	27
39	Compressed Sensing in a Fully Non-Mechanical 350 GHz Imaging Setting. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 496-512.	1.2	27
40	A Compact Circular Multipass Cell for Millimeter-Wave/Terahertz Gas Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 9-14.	2.0	26
41	Transmitters and receivers in SiGe BiCMOS technology for sensitive gas spectroscopy at 222 - 270 GHz. AIP Advances, 2019, 9, .	0.6	25
42	The ionized and hot gas in M17ÂSW. Astronomy and Astrophysics, 2012, 542, L13.	2.1	24
43	Terahertz gas spectroscopy through self-mixing in a quantum-cascade laser. Applied Physics Letters, 2016, 109, .	1.5	24
44	High-spectral-resolution terahertz imaging with a quantum-cascade laser. Optics Express, 2016, 24, 13839.	1.7	24
45	Terahertz Emission Spectra of Optically Pumped Silicon Lasers. Physica Status Solidi (B): Basic Research, 2002, 233, 191-196.	0.7	21
46	Multi-channel terahertz grating spectrometer with quantum-cascade laser and microbolometer array. Applied Physics Letters, 2011, 99, .	1.5	21
47	Mask Responses for Single-Pixel Terahertz Imaging. Scientific Reports, 2018, 8, 4886.	1.6	21
48	Doppler-free spectroscopy with a terahertz quantum-cascade laser. Optics Express, 2018, 26, 6692.	1.7	21
49	High-Performance GaAs/AlAs Terahertz Quantum-Cascade Lasers For Spectroscopic Applications. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 133-140.	2.0	21
50	Direct measurements of atomic oxygen in the mesosphere and lower thermosphere using terahertz heterodyne spectroscopy. Communications Earth & Environment, 2021, 2, .	2.6	21
51	Inhomogeneous broadening of phosphorus donor lines in the far-infrared spectra of single-crystalline SiGe. Physical Review B, 2010, 82, .	1.1	20
52	245 GHz SiGe sensor system for gas spectroscopy. International Journal of Microwave and Wireless Technologies, 2015, 7, 271-278.	1.5	20
53	Optically pumped terahertz semiconductor bulk lasers. Physica Status Solidi (B): Basic Research, 2003, 235, 126-134.	0.7	19
54	Low-threshold terahertz Si:As laser. Applied Physics Letters, 2007, 90, 141109.	1.5	19

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55	The rotational spectrum of the NH+ radical in its Xâ€‰2Î and aâ€‰Î£4â^' states. Journal of Chemical Physics, 2009, 131, 034311.	1.2	19
56	Lowâ€level LIBS and Raman data fusion in the context of in situ Mars exploration. Journal of Raman Spectroscopy, 2020, 51, 1682-1701.	1.2	19
57	Isotope effect on the lifetime of the 2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>p</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math>state in phosphorus-doped silicon. Physical Review B, 2013, 88, .	1.1	18
58	Time-resolved electronic capture in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math>-type germanium doped with antimony. Physical Review B, 2014, 89, .	1.1	18
59	Tunable 500ÂGHz transmitter array in SiGe technology for gas spectroscopy. Electronics Letters, 2015, 51, 257-259.	0.5	18
60	Influence of uniaxial stress on stimulated terahertz emission from phosphor and antimony donors in silicon. Applied Physics Letters, 2007, 90, 051101.	1.5	17
61	Identification of Unknown Substances by Terahertz Spectroscopy and Multivariate Data Analysis. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 175-188.	1.2	17
62	Diffusion doping of silicon with magnesium. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700192.	0.8	17
63	2.5 THz heterodyne receiver with NbN hot-electron-bolometer mixer. Physica C: Superconductivity and Its Applications, 2002, 372-376, 448-453.	0.6	16
64	Terahertz gain on shallow donor transitions in silicon. Journal of Applied Physics, 2007, 102, .	1.1	16
65	Terahertz Raman laser based on silicon doped with phosphorus. Applied Physics Letters, 2008, 92, .	1.5	16
66	Laser-processed diffractive lenses for the frequency range of 47â€‰â€‰THz. Optics Letters, 2019, 44, 1210.	1.7	16
67	Real-time gas sensing based on optical feedback in a terahertz quantum-cascade laser. Optics Express, 2017, 25, 30203.	1.7	15
68	Dual-Band Transmitter and Receiver With Bowtie-Antenna in 0.13 Î¼m SiGe BiCMOS for Gas Spectroscopy at 222 - 270 GHz. IEEE Access, 2021, 9, 124805-124816.	2.6	15
69	Multifrequency terahertz lasing from codoped silicon crystals. Applied Physics Letters, 2011, 98, .	1.5	14
70	Characterizing the beam properties of terahertz quantum-cascade lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 686-698.	1.2	14
71	A 3.5-THz, Ã—6-Harmonic, Single-Ended Schottky Diode Mixer for Frequency Stabilization of Quantum-Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 684-694.	2.0	14
72	Wideband, high-resolution terahertz spectroscopy by light-induced frequency tuning of quantum-cascade lasers. Optics Express, 2019, 27, 5420.	1.7	14

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73	Terahertz emission from silicon doped by shallow impurities. Physica B: Condensed Matter, 2001, 308-310, 232-235.	1.3	13
74	Laser transitions under resonant optical pumping of donor centres in Si:P. Applied Physics B: Lasers and Optics, 2003, 76, 613-616.	1.1	13
75	Terahertz wavefront measurement with a Hartmann sensor. Applied Physics Letters, 2012, 101, .	1.5	13
76	Tunable 500ÂGHz sensor system in SiGe technology for gas spectroscopy. Electronics Letters, 2015, 51, 1345-1347.	0.5	13
77	Heterodyne Spectroscopy of Frequency Instabilities in Terahertz Quantum-Cascade Lasers Induced by Optical Feedback. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-6.	1.9	13
78	Dâ˜ centers in intracenter Si:P lasers. Journal of Applied Physics, 2005, 97, 113708.	1.1	12
79	Evidence of noncascade intracenter electron relaxation in shallow donor centers in silicon. Physical Review B, 2008, 78, .	1.1	12
80	Radii of Rydberg states of isolated silicon donors. Physical Review B, 2018, 98, .	1.1	12
81	Relaxation Times and Population Inversion of Excited States of Arsenic Donors in Germanium. JETP Letters, 2019, 110, 677-682.	0.4	12
82	Magnetoconductance and photoresponse properties of disordered NbTiN films. Physical Review B, 2021, 104, .	1.1	12
83	Stimulated terahertz emission due to electronic Raman scattering in silicon. Applied Physics Letters, 2009, 94, 171112.	1.5	11
84	Further investigations of the deep double donor magnesium in silicon. Physical Review B, 2018, 98, .	1.1	11
85	Terahertz Dynamic Aperture Imaging at Standoff Distances Using a Compressed Sensing Protocol. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 364-372.	2.0	11
86	Nonequilibrium electron distribution in terahertz intracentre silicon lasers. Semiconductor Science and Technology, 2004, 19, S465-S468.	1.0	10
87	A Compact 4.75-THz Source Based on a Quantum-Cascade Laser With a Back-Facet Mirror. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 606-612.	2.0	10
88	SOFIA observations of far-infrared hydroxyl emission toward classical ultracompact HII/OH maser regions. Astronomy and Astrophysics, 2012, 542, L8.	2.1	10
89	Laser emission at 4.5 THz from ¹⁵NH₃ and a mid-infrared quantum-cascade laser as a pump source. Optics Express, 2020, 28, 23114.	1.7	10
90	FIR lasing based on group V donor transitions in silicon. Physica B: Condensed Matter, 2001, 302-303, 342-348.	1.3	9

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91	Terahertz Stimulated Emission from Silicon Doped by Hydrogenlike Acceptors. Physical Review X, 2014, 4, .	2.8	9
92	Dynamics of nonequilibrium electrons on neutral center states of interstitial magnesium donors in silicon. Physical Review B, 2016, 94, .	1.1	9
93	Shallow donor complexes formed by pairing of double-donor magnesium with group-III acceptors in silicon. Physical Review B, 2019, 99, .	1.1	9
94	Terahertz lasing from silicon by infrared Raman scattering on bismuth centers. Applied Physics Letters, 2009, 95, .	1.5	8
95	Gas Spectroscopy by Voltage-Frequency Tuning of a 245 GHz SiGe Transmitter and Receiver. IEEE Sensors Journal, 2016, 16, 8863-8864.	2.4	8
96	Dynamics of nonâ€equilibrium charge carriers in pâ€germanium doped by gallium. Physica Status Solidi (B): Basic Research, 2017, 254, 1600803.	0.7	8
97	Evaluation of Low-Cost Thermal Laser Stimulation for Data Extraction and Key Readout. Journal of Hardware and Systems Security, 2020, 4, 24-33.	0.8	8
98	Qualitative and quantitative analysis of terahertz gas-phase spectroscopy using independent component analysis. Chemometrics and Intelligent Laboratory Systems, 2020, 206, 104129.	1.8	8
99	On the effect of IF power nulls in Schottky diode harmonic mixers. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 134-142.	2.9	7
100	Intrinsic frequency tuning of terahertz quantum-cascade lasers. Journal of Applied Physics, 2018, 123, .	1.1	7
101	Chemical Shift and Exchange Interaction Energy of the 1s States of Magnesium Donors in Silicon. The Possibility of Stimulated Emission. Semiconductors, 2019, 53, 1234-1237.	0.2	7
102	Frequency and power stabilization of a terahertz quantum-cascade laser using near-infrared optical excitation. Optics Express, 2019, 27, 36846.	1.7	7
103	Noise temperature of an NbN hot-electron bolometric mixer at frequencies from 0.7 THz to 5.2 THz. Superconductor Science and Technology, 1999, 12, 748-750.	1.8	6
104	Frequency tunability of the terahertz silicon laser by a magnetic field. Applied Physics Letters, 2006, 89, 021108.	1.5	6
105	Gas spectroscopy system at 245 and 500 GHz using transmitters and receivers in SiGe BiCMOS. , 2016, , .		6
106	Towards Breath Gas Analysis Based on Millimeter-Wave Molecular Spectroscopy. Frequenz, 2018, 72, 87-92.	0.6	6
107	Mg-pair isoelectronic bound exciton identified by its isotopic fingerprint in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Si</mml:mi><mml:mprescripts /><mml:none /><mml:mn>28</mml:mn></mml:mmultiscripts></mml:math>. Physical Review B, 2018, 98, .		6
108	Infrared absorption cross sections, and oscillator strengths of interstitial and substitutional double donors in silicon. Physical Review Materials, 2021, 5, .	0.9	6

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109	Spin-orbit coupling effect on bismuth donor lasing in stressed silicon. Applied Physics Letters, 2011, 99, .	1.5	5
110	Photon assisted tunneling in pairs of silicon donors. Physical Review B, 2014, 89, .	1.1	5
111	The development of terahertz superconducting hot-electron bolometric mixers. Superconductor Science and Technology, 2004, 17, S436-S439.	1.8	4
112	Optimizing the Operation of Terahertz Silicon Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 925-932.	1.9	4
113	Raman lasers due to scattering on donor electronic resonances in silicon. Physica B: Condensed Matter, 2009, 404, 4661-4663.	1.3	4
114	245 GHz transmitter and receiver in SiGe for gas spectroscopy. , 2014, , .		4
115	Terahertz gas-sensors: Gas-phase spectroscopy and multivariate analysis for medical and security applications. , 2015, , .		4
116	Sensor system in SiGe BiCMOS at 245 and 500 GHz for gas spectroscopy. , 2016, , .		4
117	Sensitive Millimeter-Wave/Terahertz Gas Spectroscopy Based on SiGe BiCMOS Technology. , 2018, , .		4
118	Competing Inversion-Based Lasing and Raman Lasing in Doped Silicon. Physical Review X, 2018, 8, .	2.8	4
119	Detection of Volatile Organic Compounds in Exhaled Human Breath by Millimeter- Wave/Terahertz spectroscopy. , 2018, , .		4
120	Dynamics of infrared excitations in boron doped diamond. Diamond and Related Materials, 2019, 92, 259-265.	1.8	4
121	Evenâ€Parity Excited States in Infrared Emission, Absorption, and Raman Scattering Spectra of Shallow Donor Centers in Silicon. Physica Status Solidi (B): Basic Research, 2019, 256, 1800514.	0.7	4
122	Large substitutional impurity isotope shift in infrared spectra of boron-doped diamond. Physical Review B, 2020, 102, .	1.1	4
123	Magnesium-related shallow donor centers in silicon. Materials Science in Semiconductor Processing, 2021, 130, 105833.	1.9	4
124	Influence of group II and III shallow acceptors on the gain of p-Ge lasers. Physica B: Condensed Matter, 2001, 302-303, 334-341.	1.3	3
125	Influence of an electric field on the operation of terahertz intracenter silicon lasers. Journal of Applied Physics, 2010, 107, 033114.	1.1	3
126	Laser-Ablated Silicon in the Frequency Range From 0.1 to 4.7 THz. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 581-586.	2.0	3

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127	Influence of uniaxial stress on phonon-assisted relaxation in bismuth-doped silicon. Journal of Applied Physics, 2020, 127, 035706.	1.1	3
128	Higher-order Zeeman effect of Mg-related donor complexes in silicon. Physical Review B, 2020, 102, .	1.1	3
129	High Resolution Gas Phase Spectroscopy with a Quantum Cascade Laser at 2.5 THz. , 2006, , .		2
130	Terahertz Imaging. Springer Series in Optical Sciences, 2012, , 301-340.	0.5	2
131	Molecular spectroscopy with a terahertz quantum-cascade laser by illumination-induced frequency tuning. , 2018, , .		2
132	High-resolution, background-free spectroscopy of shallow-impurity transitions in semiconductors with a terahertz photomixer source. Applied Physics Letters, 2019, 114, 092103.	1.5	2
133	Terahertz transient stimulated emission from doped silicon. APL Photonics, 2020, 5, 106102.	3.0	2
134	Intracenter dipole transitions of a hydrogen-like boron acceptor in diamond: Oscillator strengths and line broadening. Diamond and Related Materials, 2021, 120, 108629.	1.8	2
135	A balloon-borne 4.75 THz-heterodyne receiver to probe atomic oxygen in the atmosphere. , 2020, , .		2
136	Gas spectroscopy system with transmitters and receivers in SiGe BiCMOS for 225-273 GHz. , 2017, , .		2
137	Heterodyne Spectroscopy with a 225 â€“ 255 GHz SiGe BiCMOS Receiver for Space Applications. , 2021, , .		2
138	Calibration-Free Gas Quantification through Wavelength Modulation Spectroscopy in the Millimeter-Wave/Terahertz Range. , 2021, , .		2
139	Phase Locking of 3.5-THz and 4.7-THz Quantum-Cascade Lasers Using a Schottky Diode Harmonic Mixer. , 2021, , .		2
140	A Comparison between THz Spectroscopy and GC-MS by Detection of Isopropanol in Human Breath. , 2021, , .		2
141	A Portable Terahertz/Millimeter-Wave Spectrometer Based on SiGe BiCMOS Technology for Gas Sensing Applications. , 2020, , .		2
142	Terahertz Silicon Lasers. , 2003, , 331-340.		1
143	Multi-crystalline silicon as active medium for terahertz intracenter lasers. Physica B: Condensed Matter, 2008, 403, 535-538.	1.3	1
144	Using terahertz cascade lasers for determination of optical losses in active medium of silicon intracenter lasers. , 2010, , .		1

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145	Optical Components. Springer Series in Optical Sciences, 2012, , 51-101.	0.5	1
146	Detectors. Springer Series in Optical Sciences, 2012, , 169-245.	0.5	1
147	Gas Spectroscopy at 222 â€“ 270 GHz Based on SiGe BiCMOS using a Multi-Pass Ring Cell. , 2019, , .		1
148	High-Resolution THz Spectroscopy with QCLs: From Lab to Space. , 2019, , .		1
149	15NH3 terahertz gas laser pumped by a mid-infrared quantum-cascade laser. , 2019, , .		1
150	Frequency Tuning of Terahertz Stimulated Emission under the Intracenter Optical Excitation of Uniaxially Stressed Si:Bi. Semiconductors, 2020, 54, 969-974.	0.2	1
151	Observation of Atomic Oxygen in the Mesosphere and Thermosphere of Earth with the THz Heterodyne Spectrometer GREAT. , 2021, , .		1
152	Resonant boron acceptor states in semiconducting diamond. Physical Review B, 2021, 104, .	1.1	1
153	THZ silicon lasers based on donor center transitions. , 0, , .		0
154	Optical Principles at Terahertz Frequencies. Springer Series in Optical Sciences, 2012, , 23-49.	0.5	0
155	Spectroscopic Methods. Springer Series in Optical Sciences, 2012, , 247-300.	0.5	0
156	Possibility of THz donor lasing in electrically pumped silicon. , 2013, , .		0
157	Terahertz absorption and emission upon the photoionization of acceptors in uniaxially stressed silicon. Semiconductors, 2016, 50, 1458-1462.	0.2	0
158	A compact gas spectroscopy sensor system based on a voltage-frequency-tuned 245 GHz SiGe transmitter and receiver. , 2016, , .		0
159	Real-Time Molecular Spectroscopy through Self-Mixing in a Terahertz Quantum-Cascade Laser. , 2018, , .		0
160	Relaxation of Coulomb States in Semiconductors Probed by FEL Radiation. EPJ Web of Conferences, 2018, 195, 07008.	0.1	0
161	Tunable Stokes Shift in Uniaxially Stressed Silicon with Shallow Donors. , 2019, , .		0
162	Stimulated Terahertz Emission of Bismuth Donors in Uniaxially Strained Silicon under Optical Intracenter Excitation. Semiconductors, 2019, 53, 1255-1257.	0.2	0

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163	Relaxation Times of Arsenic Excited Donor States in Germanium. , 2019, , .		0
164	The relaxation times of donor bound electrons in germanium. AIP Conference Proceedings, 2020, , .	0.3	0
165	Terahertz Sensing with Quantum-Cascade Lasers. , 2020, , .		0