Miriam Serena Vitiello

List of Publications by Year
in descending order

199 papers	9,848 citations	61984 43 h-index	36028 97 g-index
201 all docs	201 docs citations	201 times ranked	11188 citing authors

#	Article	IF	Citations
1	Photodetectors based on graphene, other two-dimensional materials and hybrid systems. Nature Nanotechnology, 2014, 9, 780-793.	31.5	3,017
2	Graphene field-effect transistors as room-temperature terahertz detectors. Nature Materials, 2012, 11, 865-871.	27.5	931
3	Quantum cascade lasers: 20 years of challenges. Optics Express, 2015, 23, 5167.	3.4	412
4	Black Phosphorus Terahertz Photodetectors. Advanced Materials, 2015, 27, 5567-5572.	21.0	269
5	Ultrafast multi-terahertz nano-spectroscopy with sub-cycle temporal resolution. Nature Photonics, 2014, 8, 841-845.	31.4	260
6	Femtosecond photo-switching of interface polaritons in black phosphorus heterostructures. Nature Nanotechnology, 2017, 12, 207-211.	31.5	174
7	Room-Temperature Terahertz Detectors Based on Semiconductor Nanowire Field-Effect Transistors. Nano Letters, 2012, 12, 96-101.	9.1	171
8	High performance bilayer-graphene terahertz detectors. Applied Physics Letters, 2014, 104, .	3.3	149
9	Quantum-limited frequency fluctuations in a terahertz laser. Nature Photonics, 2012, 6, 525-528.	31.4	146
10	Fast and Sensitive Terahertz Detection Using an Antenna-Integrated Graphene pn Junction. Nano Letters, 2019, 19, 2765-2773.	9.1	144
11	Plasma-Wave Terahertz Detection Mediated by Topological Insulators Surface States. Nano Letters, 2016, 16, 80-87.	9.1	131
12	Measurement of subband electronic temperatures and population inversion in THz quantum-cascade lasers. Applied Physics Letters, 2005, 86, 111115.	3.3	123
13	Device Concepts for Graphene-Based Terahertz Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 130-138.	2.9	118
14	Efficient Terahertz detection in black-phosphorus nano-transistors with selective and controllable plasma-wave, bolometric and thermoelectric response. Scientific Reports, 2016, 6, 20474.	3.3	117
15	Intrinsic stability of quantum cascade lasers against optical feedback. Optics Express, 2013, 21, 13748.	3.4	103
16	Optoelectronic devices, plasmonics, and photonics with topological insulators. APL Materials, 2017, 5, .	5.1	93
17	Terahertz saturable absorbers from liquid phase exfoliation of graphite. Nature Communications, 2017, 8, 15763.	12.8	93
18	Tunable Emission in THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 76-84.	3.1	88

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19	Interplay of Surface and Dirac Plasmons in Topological Insulators: The Case of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2015, 115, 216802.	7.8	87
20	Real-time terahertz digital holography with a quantum cascade laser. Scientific Reports, 2015, 5, 13566.	3.3	85
21	Heterostructured hBNâ€BPâ€hBN Nanodetectors at Terahertz Frequencies. Advanced Materials, 2016, 28, 7390-7396.	21.0	85
22	Nanometer size field effect transistors for terahertz detectors. Nanotechnology, 2013, 24, 214002.	2.6	80
23	Plasmonics with two-dimensional semiconductors: from basic research to technological applications. Nanoscale, 2018, 10, 8938-8946.	5.6	79
24	A quartz enhanced photo-acoustic gas sensor based on a custom tuning fork and a terahertz quantum cascade laser. Analyst, The, 2014, 139, 2079-2087.	3.5	77
25	THz Quartz-enhanced photoacoustic sensor for H_2S trace gas detection. Optics Express, 2015, 23, 7574.	3.4	76
26	Perfect energy-feeding into strongly coupled systems and interferometric control of polaritonÂabsorption. Nature Physics, 2014, 10, 830-834.	16.7	71
27	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	3.4	70
28	Fully phase-stabilized quantum cascade laser frequency comb. Nature Communications, 2019, 10, 2938.	12.8	69
29	HBN-Encapsulated, Graphene-based, Room-temperature Terahertz Receivers, with High Speed and Low Noise. Nano Letters, 2020, 20, 3169-3177.	9.1	67
30	Thermoelectric terahertz photodetectors based on selenium-doped black phosphorus flakes. Nanoscale, 2019, 11, 1995-2002.	5.6	64
31	Terahertz quantum cascade lasers with large wall-plug efficiency. Applied Physics Letters, 2007, 90, 191115.	3.3	60
32	Photonic quasi-crystal terahertz lasers. Nature Communications, 2014, 5, 5884.	12.8	59
33	Improved Tuning Fork for Terahertz Quartz-Enhanced Photoacoustic Spectroscopy. Sensors, 2016, 16, 439.	3.8	59
34	Optical Anisotropy in Single Light-Emitting Polymer Nanofibers. Journal of Physical Chemistry C, 2011, 115, 20399-20405.	3.1	58
35	Terahertz wave transmission in flexible polystyrene-lined hollow metallic waveguides for the 25-5 THz band. Optics Express, 2013, 21, 23748.	3.4	56
36	Terahertz detection by epitaxial-graphene field-effect-transistors on silicon carbide. Applied Physics Letters, 2015, 107, .	3.3	55

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37	Temperature Dependence of Thermal Conductivity and Boundary Resistance in THz Quantum Cascade Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 431-435.	2.9	52
38	Terahertz confocal microscopy with a quantum cascade laser source. Optics Express, 2012, 20, 21924.	3.4	52
39	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. Applied Physics Letters, 2012, 100, .	3.3	50
40	THz QCL-Based Cryogen-Free Spectrometer for in Situ Trace Gas Sensing. Sensors, 2013, 13, 3331-3340.	3.8	49
41	Black phosphorus nanodevices at terahertz frequencies: Photodetectors and future challenges. APL Materials, 2017, 5, .	5.1	49
42	Thermal properties of THz quantum cascade lasers based on different optical waveguide configurations. Applied Physics Letters, 2006, 89, 021111.	3.3	46
43	Comparative analysis of resonant phonon THz quantum cascade lasers. Journal of Applied Physics, 2007, 101, 086109.	2.5	44
44	Influence of InAs, AlAs Î´ layers on the optical, electronic, and thermal characteristics of strain-compensated GaInAsâ•AlInAs quantum-cascade lasers. Applied Physics Letters, 2007, 91, .	3.3	43
45	Near-field terahertz probes with room-temperature nanodetectors for subwavelength resolution imaging. Scientific Reports, 2017, 7, 44240.	3.3	43
46	Thermoelectric graphene photodetectors with sub-nanosecond response times at terahertz frequencies. Nanophotonics, 2020, 10, 89-98.	6.0	43
47	Low-Loss Hollow Waveguide Fibers for Mid-Infrared Quantum Cascade Laser Sensing Applications. Sensors, 2013, 13, 1329-1340.	3.8	42
48	High Dynamic Range, Heterogeneous, Terahertz Quantum Cascade Lasers Featuring Thermally Tunable Frequency Comb Operation over a Broad Current Range. ACS Photonics, 2019, 6, 73-78.	6.6	41
49	Nanowire-based field effect transistors for terahertz detection and imaging systems. Nanotechnology, 2013, 24, 214005.	2.6	40
50	Quantum cascade laser based hybrid dual comb spectrometer. Communications Physics, 2020, 3, .	5.3	40
51	Electron-lattice coupling in bound-to-continuum THz quantum-cascade lasers. Applied Physics Letters, 2006, 88, 241109.	3.3	38
52	Thermal Modeling of Terahertz Quantum-Cascade Lasers: Comparison of Optical Waveguides. IEEE Journal of Quantum Electronics, 2008, 44, 680-685.	1.9	38
53	Mapping propagation of collective modes in Bi2Se3 and Bi2Te2.2Se0.8 topological insulators by near-field terahertz nanoscopy. Nature Communications, 2021, 12, 6672.	12.8	36
54	Improved thermal management of mid-IR quantum cascade lasers. Journal of Applied Physics, 2008, 103, .	2.5	35

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55	Spectral purity and tunability of terahertz quantum cascade laser sources based on intracavity difference-frequency generation. Science Advances, 2017, 3, e1603317.	10.3	33
56	Frequency-tunable continuous-wave random lasers at terahertz frequencies. Light: Science and Applications, 2019, 8, 43.	16.6	33
57	Subband electronic temperatures and electron-lattice energy relaxation in terahertz quantum cascade lasers with different conduction band offsets. Applied Physics Letters, 2006, 89, 131114.	3.3	32
58	The role of surface chemical reactivity in the stability of electronic nanodevices based on two-dimensional materials â€œbeyond grapheneâ€•and topological insulators. FlatChem, 2017, 1, 60-64.	5.6	32
59	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. Optics Express, 2019, 27, 20231.	3.4	32
60	Unveiling the detection dynamics of semiconductor nanowire photodetectors by terahertz near-field nanoscopy. Light: Science and Applications, 2020, 9, 189.	16.6	31
61	Millimeter wave photonics with terahertz semiconductor lasers. Nature Communications, 2021, 12, 1427.	12.8	31
62	Tunable, Gratingâ€Gated, Grapheneâ€Onâ€Polyimide Terahertz Modulators. Advanced Functional Materials, 2021, 31, 2008039.	14.9	31
63	Continuous-wave highly-efficient low-divergence terahertz wire lasers. Nature Communications, 2018, 9, 1122.	12.8	30
64	Photocurrent-based detection of terahertz radiation in graphene. Applied Physics Letters, 2013, 103, .	3.3	29
65	Time-resolved measurement of the local lattice temperature in terahertz quantum cascade lasers. Applied Physics Letters, 2008, 92, 101116.	3.3	28
66	Coupling external cavity mid-IR quantum cascade lasers with low loss hollow metallic/dielectric waveguides. Applied Physics B: Lasers and Optics, 2012, 108, 255-260.	2.2	27
67	Broadband heterogeneous terahertz frequency quantum cascade laser. Electronics Letters, 2018, 54, 1229-1231.	1.0	26
68	Terahertz Frequency Combs Exploiting an On-Chip, Solution-Processed, Graphene-Quantum Cascade Laser Coupled-Cavity. ACS Photonics, 2020, 7, 3489-3498.	6.6	26
69	Nanoscale heat transfer in quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1780-1784.	2.7	25
70	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. Optics Express, 2011, 19, 1122.	3.4	25
71	Terahetz detection by heterostructed InAs/InSb nanowire based field effect transistors. Applied Physics Letters, 2012, 101, 141103.	3.3	25
72	Se-doping dependence of the transport properties in CBE-grown InAs nanowire field effect transistors. Nanoscale Research Letters, 2012, 7, 159.	5.7	25

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73	Experimental investigation of the lattice and electronic temperatures in Ga0.47In0.53Asâˆ•Al0.62Ga0.38As1âˆ’xSbx quantum-cascade lasers. Applied Physics Letters, 2007, 90, 121109.	3.3	24
74	Non-equilibrium longitudinal and transverse optical phonons in terahertz quantum cascade lasers. Applied Physics Letters, 2012, 100, .	3.3	24
75	Bow-Tie Cavity for Terahertz Radiation. Photonics, 2019, 6, 1.	2.0	24
76	Continuous-Wave Reflection Imaging Using Optical Feedback Interferometry in Terahertz and Mid-Infrared Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 631-633.	3.1	23
77	Tuning a microcavity-coupled terahertz laser. Applied Physics Letters, 2015, 107, 261108.	3.3	23
78	Photo-generated metamaterials induce modulation of CW terahertz quantum cascade lasers. Scientific Reports, 2015, 5, 16207.	3.3	23
79	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. Optics Express, 2015, 23, 11632.	3.4	23
80	Phase-sensitive terahertz imaging using room-temperature near-field nanodetectors. Optica, 2018, 5, 651.	9.3	23
81	Terahertz near-field nanoscopy based on detectorless laser feedback interferometry under different feedback regimes. APL Photonics, 2021, 6, .	5.7	23
82	Impact of nonequilibrium phonons on the electron dynamics in terahertz quantum cascade lasers. Applied Physics Letters, 2010, 97, .	3.3	22
83	Probing quantum efficiency by laser-induced hot-electron cooling. Applied Physics Letters, 2009, 94, 021115.	3.3	21
84	Physics and technology of Terahertz quantum cascade lasers. Advances in Physics: X, 2021, 6, .	4.1	21
85	Chip-Scalable, Room-Temperature, Zero-Bias, Graphene-Based Terahertz Detectors with Nanosecond Response Time. ACS Nano, 2021, 15, 17966-17976.	14.6	21
86	Terahertz Quantum Cascade Lasers as Enabling Quantum Technology. Advanced Quantum Technologies, 2022, 5, 2100082.	3.9	21
87	Ultrafast terahertz saturable absorbers using tailored intersubband polaritons. Nature Communications, 2020, 11, 4290.	12.8	19
88	Toward new frontiers for terahertz quantum cascade laser frequency combs. Nanophotonics, 2020, 10, 187-194.	6.0	19
89	Guiding a terahertz quantum cascade laser into a flexible silver-coated waveguide. Journal of Applied Physics, 2011, 110, .	2.5	17
90	Nanowire Terahertz detectors with a resonant four-leaf-clover-shaped antenna. Optics Express, 2014, 22, 8996.	3.4	17

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91	One dimensional semiconductor nanostructures: An effective active-material for terahertz detection. APL Materials, 2015, 3, .	5.1	17
92	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. Light: Science and Applications, 2020, 9, 54.	16.6	16
93	Selfâ€Induced Phase Locking of Terahertz Frequency Combs in a Phaseâ€Sensitive Hyperspectral Nearâ€Field Nanoscope. Advanced Science, 2022, 9, .	11.2	16
94	Modes in silver-iodide-lined hollow metallic waveguides mapped by terahertz near-field time-domain microscopy. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 127.	2.1	15
95	Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. Nano Research, 2016, 9, 2598-2605.	10.4	15
96	Ultrafast two-dimensional field spectroscopy of terahertz intersubband saturable absorbers. Optics Express, 2019, 27, 2248.	3.4	15
97	Terahertz photodetectors based on tapered semiconductor nanowires. Applied Physics Letters, 2014, 105, .	3.3	14
98	Nanodevices at terahertz frequency based on 2D materials. JPhys Materials, 2020, 3, 014008.	4.2	14
99	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. Nanophotonics, 2021, 10, 1495-1503.	6.0	14
100	Terahertz detection of magnetic field-driven topological phase transition in HgTe-based transistors. Applied Physics Letters, 2015, 107, .	3.3	13
101	High-Q resonant cavities for terahertz quantum cascade lasers. Optics Express, 2015, 23, 3751.	3.4	13
102	Continuous-wave laser operation of a dipole antenna terahertz microresonator. Light: Science and Applications, 2017, 6, e17054-e17054.	16.6	12
103	Quantum-Dot Single-Electron Transistors as Thermoelectric Quantum Detectors at Terahertz Frequencies. Nano Letters, 2021, 21, 8587-8594.	9.1	11
104	Tailored nano-electronics and photonics with two-dimensional materials at terahertz frequencies. Journal of Applied Physics, 2021, 130, .	2.5	11
105	Multimode, Aperiodic Terahertz Surface-Emitting Laser Resonators. Photonics, 2016, 3, 32.	2.0	10
106	Homogeneous quantum cascade lasers operating as terahertz frequency combs over their entire operational regime. Nanophotonics, 2020, 10, 181-186.	6.0	10
107	Anisotropic heat propagation velocity in quantum cascade lasers. Applied Physics Letters, 2010, 96, 101101.	3.3	9
108	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. Optics Express, 2015, 23, 5190.	3.4	9

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109	Electronic temperatures of terahertz quantum cascade active regions with phonon scattering assisted injection and extraction scheme. Optics Express, 2013, 21, 10172.	3.4	8
110	Terahertz probe of individual subwavelength objects in a water environment. Laser and Photonics Reviews, 2014, 8, 734-742.	8.7	8
111	Lattice dynamics and elastic properties of black phosphorus. Physical Review B, 2022, 105, .	3.2	8
112	Hot Electrons in THz Quantum Cascade Lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 357-373.	2.2	7
113	Contacts shielding in nanowire field effect transistors. Journal of Applied Physics, 2012, 111, 064301.	2.5	6
114	Quantum cascade laser: a compact, low cost, solid-state source for plasma diagnostics. Journal of Instrumentation, 2012, 7, C02018-C02018.	1.2	6
115	Flexible, Low-loss Waveguide Designs for Efficient Coupling to Quantum Cascade Lasers in the Far-infrared. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 319-326.	2.2	6
116	Frequency and amplitude modulation of ultra-compact terahertz quantum cascade lasers using an integrated avalanche diode oscillator. Scientific Reports, 2016, 6, 23053.	3.3	6
117	Chipâ€Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching. Laser and Photonics Reviews, 2021, 15, 2000575.	8.7	6
118	Mapping the complex refractive index of single layer graphene on semiconductor or polymeric substrates at terahertz frequencies. 2D Materials, 2022, 9, 025018.	4.4	6
119	High-performance terahertz quantum cascade lasers operating at 106 Î¼m: analysis of the thermal and electronic properties. Journal of Nanophotonics, 2007, 1, 013514.	1.0	5
120	Wide wavelength tuning of GaAsâ•AlxGa1â’xAs bound-to-continuum quantum cascade lasers by aluminum content control. Applied Physics Letters, 2008, 92, .	3.3	5
121	One-dimensional, surface emitting, disordered Terahertz lasers. APL Photonics, 2020, 5, 036102.	5.7	5
122	Functionalized interfaces by plasma treatments on silicon and silicon dioxide substrates. Thin Solid Films, 2007, 515, 7195-7202.	1.8	4
123	Mid-infrared, long-wave infrared, and terahertz photonics: introduction. Optics Express, 2020, 28, 14169.	3.4	4
124	Intra-Atomic Mid-IR (3.7 Î¼m) Luminescence In ZnSe:Fe Grown By Molecular Beam Epitaxy. AIP Conference Proceedings, 2004, , .	0.4	3
125	Non equilibrium electrons in THz quantum cascade lasers. , 2006, 6133, 126.		3
126	Highly sensitive, ultrafast photo-thermoelectric graphene THz detector. , 2018, , .		3

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127	Spatial coherence of electrically pumped random terahertz lasers. Photonics Research, 2022, 10, 524.	7.0	3
128	Hot electron effects and nanoscale heat transfer in Terahertz quantum cascade lasers. Proceedings of SPIE, 2009, , .	0.8	2
129	Heat transport in terahertz quantum cascade lasers. Optical Engineering, 2010, 49, 111115.	1.0	2
130	Terahertz waveguides with low transmission losses: characterization and applications. Proceedings of SPIE, 2014, , .	0.8	2
131	High-performance room-temperature THz nanodetectors with a narrowband antenna. Proceedings of SPIE, 2014, , .	0.8	2
132	Polarization analysis of random THz lasers. APL Photonics, 2021, 6, 070805.	5.7	2
133	Semiconductor Nanowire Field-Effect Transistors as Sensitive Detectors in the Far-Infrared. Nanomaterials, 2021, 11, 3378.	4.1	2
134	Electronic spatial distribution of In0.53Ga0.47Asâˆ•AlAs0.56Sb0.44 quantum-cascade lasers. Journal of Applied Physics, 2005, 98, 086106.	2.5	1
135	Electronic and lattice temperatures in bound-to-continuum terahertz quantum cascade lasers. , 2006, , .		1
136	Electronic and thermal properties of Sb-based QCLs operating in the first atmospheric window. , 2007, , .		1
137	Plasma treatment effects on Si and Si/dielectric film heterostructures. Journal of Materials Processing Technology, 2008, 206, 462-466.	6.3	1
138	Microprobe photoluminescence assessment of the wall-plug efficiency in interband cascade lasers. Journal of Applied Physics, 2008, 104, 046101.	2.5	1
139	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study. , 2011, , .		1
140	THz quantum cascade laser-based quartz enhanced photo-acoustic sensor. , 2013, , .		1
141	Quartz-enhanced photoacoustic sensors for H2S trace gas detection. , 2015, , .		1
142	Black phosphorus and hybrid van der wall heterostructured terahertz photodetectors. , 2016, , .		1
143	New developments in THz quartz enhanced photoacoustic spectroscopy. , 2016, , .		1
144	Near-Field microscopy with phase sensitive coherent detection employing quantum cascade lasers. , 2017, , .		1

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145	Fully Phase Stabilized Quantum Cascade Laser Frequency Comb. , 2019, , .		1
146	High performance semiconductor nanowire and graphene Terahertz nanodetectors. , 2014, , .		1
147	Comparative Analysis of THz Quantum Cascade Lasers. , 2007, , .		0
148	Î¼-probe photoluminescence study of mid-IR quantum cascade lasers based on antimonide ternary and quaternary barriers. Journal of Nanophotonics, 2007, 1, 013512.	1.0	0
149	Experimental measurement of the wall-plug efficiency in THz quantum cascade lasers. , 2007, , .		0
150	High performance THz quantum cascade laser with different optical waveguide configurations. , 2007, , .		0
151	Correlation between the subband electronic temperatures and the internal quantum efficiency of THz quantum cascade lasers. , 2008, , .		0
152	Heat transfer dynamics and temperature performance degradation in terahertz quantum cascade lasers. , 2009, , .		0
153	Time of flight measurements of the nanoscale heat transfer dynamic in terahertz quantum cascade lasers. , 2009, , .		0
154	Hot-electron cooling in THz quantum cascade lasers. , 2009, , .		0
155	Correlation between laser-induced hot-electron cooling and quantum efficiency in THz quantum cascade lasers. , 2009, , .		0
156	Trace gas sensing using quantum cascade lasers and optoacoustic detection. Proceedings of SPIE, 2009, , .	0.8	0
157	Non-equilibrium LO and TO phonon generation by electron transport in Terahertz quantum cascade lasers. , 2010, , .		0
158	Heat transfer speed and phonon related phenomena in terahertz quantum cascade lasers. , 2010, , .		0
159	Guiding a terahertz quantum cascade laser into low-loss hollow waveguides. , 2011, , .		0
160	Nanowire-based architectures for the detection of THz radiation. , 2011, , .		0
161	Low-loss hollow metallic waveguides efficiently coupled to Terahertz micro-ring quantum cascade lasers. , 2011, , .		0
162	Terahertz quantum cascade laser coupled with high efficiency to the low loss optical modes of cylindrical hollow-core waveguides. Proceedings of SPIE, 2011, , .	0.8	0

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163	Room temperature terahertz detectors based on semiconductor nanowire field effect transistors. , 2012, , .		0
164	Distributed feedback Terahertz QCLs with a quasi-periodic Penrose patterning. , 2013, , .		0
165	Quantum-limited linewidth in THz quantum cascade lasers. Proceedings of SPIE, 2013, , .	0.8	0
166	Room-temperature nanowire terahertz photodetectors. Proceedings of SPIE, 2013, , .	0.8	0
167	Dispersion and attenuation in flexible dielectric-lined hollow metallic THz waveguides. , 2013, , .		0
168	THz imaging of free carrier density based on quantum cascade lasers under optical feedback. , 2014, , .		0
169	Towards Doppler-Free QCL-based Metrological THz Spectroscopy. , 2014, , .		0
170	THz detection in graphene nanotransistors. , 2014, , .		0
171	Ultrafast Infrared Nanoscopy with Sub-Cycle Temporal Resolution. Microscopy and Microanalysis, 2015, 21, 2163-2164.	0.4	0
172	Ultrafast field-resolved multi-THz spectroscopy on the sub-nanoparticle scale. , 2015, , .		0
173	Efficient Room-temperature Terahertz Nano-detectors based on Novel 2D Materials and heterostructures. , 2016, , .		0
174	Low divergent, high-power, single-mode terahertz wire lasers. , 2016, , .		0
175	Photonic Engineering of Quantum Cascade Lasers in the Far Infrared and Application Perspectives. , 2016, , .		0
176	Preface to Special Topic: Emerging materials for photonics. APL Materials, 2017, 5, 035101.	5.1	0
177	Ultrafast photo-activation of surface polaritons in black phosphorus heterostructures. , 2017, , .		0
178	Near-Field THz Photocurrent Nanoscopy of InAs Nanowires FET. , 2019, , .		0
179	Self-Mixing Interferometry in Continuous-Wave High Power 1D and 2D QCL Random Lasers Operating at Terahertz Frequencies. , 2019, , .		0
180	THz quantum cascade laser frequency combs. , 2019, , .		0

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181	Reshaping the emission of a THz quantum cascade laser frequency comb through an on-chip graphene modulator. , 2021, , .		0
182	Terahertz Frequency Combs: Chipâ€Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching (Laser Photonics Rev. 15(6)/2021). Laser and Photonics Reviews, 2021, 15, 2170035.	8.7	0
183	Terahertz Near-field Nanoscopy Based on Self-mixing Interferometry with Quantum Cascade Resonators. , 2021, , .		0
184	Highly sensitive photodetectors at 0.6 THz based on quantum dot single electron transistors. , 2021, , .		0
185	The intrinsic linewidth of THz quantum cascade lasers. , 2012, , .		0
186	Impact of thin AgI coatings on modes in cylindrical metallic waveguides for THz applications. , 2013, , .		0
187	Quartz Enhanced Photoacoustic Sensors for Trace Gas Detection in the IR and THz Spectral Range. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 139-151.	0.3	0
188	Terahertz Photonic Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 91-111.	0.3	0
189	QCL-Based Real-Time Terahertz Digital Holography. , 2016, , .		0
190	Femtosecond Infrared Nano-spectroscopy with Sub-cycle Temporal Resolution. , 2016, , .		0
191	Terahertz quantum cascade dipole-antenna vertically emitting continuous wave laser. , 2017, , .		0
192	Sub-wavelength near field imaging techniques at terahertz frequencies. , 2018, , .		0
193	Aperiodic photonic architectures for high-power distributed feedback THz quantum cascade lasers. , 2019, , .		0
194	Electrically Tunable Graphene-on-Polyimide Terahertz Modulators. , 2020, , .		0
195	Tracing photodetection of THz frequency light in InAs nanowire field effect transistors via near-field THz nanoscopy. , 2020, , .		0
196	Ultrafast THz intersubband polariton saturable absorber integrated with a quantum cascade frequency comb. , 2020, , .		0
197	Semiconductor THz frequency combs exploiting solution processed graphene. , 2020, , .		0
198	High-speed, low-noise thermoelectric graphene detectors at terahertz frequencies. , 2020, , .		0

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199	Highly efficient one-dimensional quasi-crystalline THz semiconductor lasers. , 2020, , .		0