Qi Jie Wang

List of Publications by Citations

227 papers	6,614 citations	42 h-index	73 g-index
297 ext. papers	8,208 ext. citations	6.4 avg, IF	5.98 L-index

#	Paper	IF	Citations
227	Broadband high photoresponse from pure monolayer graphene photodetector. *Nature Communications*, **2013**, 4, 1811	17.4	556
226	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. *Nature Communications*, **2018**, 9, 1545	17.4	267
225	Designer spoof surface plasmon structures collimate terahertz laser beams. *Nature Materials*, **2010**, 9, 730-5	27	212
224	Small-divergence semiconductor lasers by plasmonic collimation. *Nature Photonics*, **2008**, 2, 564-570	33.9	179
223	A tunable 3D optofluidic waveguide dye laser via two centrifugal Dean flow streams. *Lab on A Chip*, **2011**, 11, 3182-7	7.2	156
222	Electrically pumped topological laser with valley edge modes. *Nature*, **2020**, 578, 246-250	50.4	151
221	Whispering-gallery mode resonators for highly unidirectional laser action. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22407-12	11.5	151
220	3 W continuous-wave room temperature single-facet emission from quantum cascade lasers based on nonresonant extraction design approach. *Applied Physics Letters*, **2009**, 95, 141113	3.4	139
219	1.6W high wall plug efficiency, continuous-wave room temperature quantum cascade laser emitting at 4.6μm. *Applied Physics Letters*, **2008**, 92, 111110	3.4	133
218	Lateral black phosphorene PN junctions formed via chemical doping for high performance near-infrared photodetector. *Nano Energy*, **2016**, 25, 34-41	17.1	126
217	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. *Advanced Functional Materials*, **2016**, 26, 137-145	15.6	125
216	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. *ACS Photonics*, **2015**, 2, 1559-1566	6.9	124
215	Tunable and switchable dual-wavelength Tm-doped mode-locked fiber laser by nonlinear polarization evolution. *Optics Express*, **2015**, 23, 4369-76	3.3	112
214	All-Dielectric Active Terahertz Photonics Driven by Bound States in the Continuum. *Advanced Materials*, **2019**, 31, e1901921	24	106
213	All-Optical Plasmonic Switches Based on Coupled Nano-disk Cavity Structures Containing Nonlinear Material. *Plasmonics*, **2011**, 6, 753-759	2.4	103
212	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. *Nature Communications*, **2018**, 9, 4299	17.4	98
211	Temperature dependence of the electrical transport properties in few-layer graphene interconnects. *Nanoscale Research Letters*, **2013**, 8, 335	5	94

210	High-Temperature Operation of Terahertz Quantum Cascade Laser Sources. *IEEE Journal of Selected Topics in Quantum Electronics*, **2009**, 15, 952-967	3.8	93
209	Amplified spontaneous emission and lasing from lanthanide-doped up-conversion nanocrystals. *ACS Nano*, **2013**, 7, 11420-6	16.7	90
208	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. *Advanced Materials*, **2017**, 29, 1603991	24	88
207	Graphene-based tunable plasmonic Bragg reflector with a broad bandwidth. *Optics Letters*, **2014**, 39, 271-4	3	87
206	Broadly tunable one-way terahertz plasmonic waveguide based on nonreciprocal surface magneto plasmons. *Optics Letters*, **2012**, 37, 1895-7	3	87
205	Self-gating in semiconductor electrocatalysis. *Nature Materials*, **2019**, 18, 1098-1104	27	84
204	Directional emission and universal far-field behavior from semiconductor lasers with limaȣn-shaped microcavity. *Applied Physics Letters*, **2009**, 94, 251101	3.4	81
203	High-power graphene mode-locked Tm/Ho co-doped fiber laser with evanescent field interaction. *Scientific Reports*, **2015**, 5, 16624	4.9	73
202	Engineering grain boundaries at the ́2D limit for the ̀hydrogen evolution reaction. *Nature Communications*, **2020**, 11, 57	17.4	72
201	Nonlinear absorption of SWNT film and its effects to the operation state of pulsed fiber laser. *Optics Express*, **2014**, 22, 17227-35	3.3	63
200	Single-wall carbon nanotubes and graphene oxide-based saturable absorbers for low phase noise mode-locked fiber lasers. *Scientific Reports*, **2016**, 6, 25266	4.9	62
199	A high performance, visible to mid-infrared photodetector based on graphene nanoribbons passivated with HfO2. *Nanoscale*, **2016**, 8, 327-32	7.7	60
198	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. *Advanced Optical Materials*, **2021**, 9, 2001708	8.1	59
197	Photocurrent generation in lateral graphene p-n junction created by electron-beam irradiation. *Scientific Reports*, **2015**, 5, 12014	4.9	58
196	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. *Nature Nanotechnology*, **2020**, 15, 675-682	28.7	56
195	High performance quantum cascade lasers based on three-phonon-resonance design. *Applied Physics Letters*, **2009**, 94, 011103	3.4	56
194	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. *IEEE Transactions on Terahertz Science and Technology*, **2012**, 2, 83-92	3.4	53
193	Semiconductor lasers with integrated plasmonic polarizers. *Applied Physics Letters*, **2009**, 94, 151101	3.4	52

192	High-power thulium fiber laser Q switched with single-layer graphene. *Optics Letters*, **2014**, 39, 614-7	3	51
191	Tunable graphene-based plasmonic waveguides: nano modulators and nano attenuators. *Laser and Photonics Reviews*, **2014**, 8, 569-574	8.3	49
190	Suppressing spatiotemporal lasing instabilities with wave-chaotic microcavities. *Science*, **2018**, 361, 1225-1231	33	46
189	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. *Advanced Optical Materials*, **2017**, 5, 1600768	8.1	44
188	Photonic microwave phase shifter/modulator based on a nonlinear optical loop mirror incorporating a Mach-Zehnder interferometer. *Optics Letters*, **2007**, 32, 745-7	3	44
187	Widely tunable Tm-doped mode-locked all-fiber laser. *Scientific Reports*, **2016**, 6, 27245	4.9	43
186	Beam engineering of quantum cascade lasers. *Laser and Photonics Reviews*, **2012**, 6, 24-46	8.3	43
185	Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor. *Advanced Materials Technologies*, **2017**, 2, 1600185	6.8	41
184	All-fiber multiwavelength thulium-doped laser assisted by four-wave mixing in highly germania-doped fiber. *Optics Express*, **2015**, 23, 340-8	3.3	41
183	Ultra-confined surface phonon polaritons in molecular layers of van der Waals dielectrics. *Nature Communications*, **2018**, 9, 1762	17.4	41
182	Modelling of free-form conformal metasurfaces. *Nature Communications*, **2018**, 9, 3494	17.4	41
181	Quantum cascade lasers with integrated plasmonic antenna-array collimators. *Optics Express*, **2008**, 16, 19447-61	3.3	41
180	Numerical Study of Gain-Assisted Terahertz Hybrid Plasmonic Waveguide. *Plasmonics*, **2012**, 7, 571-577	2.4	39
179	All-normal-dispersion passively mode-locked Yb-doped fiber ring laser based on a graphene oxide saturable absorber. *Laser Physics Letters*, **2013**, 10, 075108	1.5	39
178	Emerging High-Performance SnS/CdS Nanoflower Heterojunction for Ultrafast Photonics. *ACS Applied Materials & Interfaces*, **2020**, 12, 43098-43105	9.5	39
177	Surface magneto plasmons and their applications in the infrared frequencies. *Nanophotonics*, **2015**, 4, 383-396	6.3	37
176	Electrically pumped mid-infrared random lasers. *Advanced Materials*, **2013**, 25, 6859-63	24	37
175	Monolithic high-index contrast grating: a material independent high-reflectance VCSEL mirror. *Optics Express*, **2015**, 23, 11674-86	3.3	33

174	Room-temperature mid-infrared photodetector in all-carbon graphene nanoribbon-C_60 hybrid nanostructure. *Optica*, **2016**, 3, 979	8.6	33
173	Switchable multi-wavelength Tm-doped mode-locked fiber laser. *Optics Letters*, **2015**, 40, 1916-9	3	32
172	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 441-447	3.8	32
171	Tunable Subwavelength Terahertz Plasmonic Stub Waveguide Filters. *IEEE Nanotechnology Magazine*, **2013**, 12, 1191-1197	2.6	32
170	. *IEEE Nanotechnology Magazine*, **2010**, 9, 11-29	2.6	32
169	Investigation of Multilayer Subwavelength Metallic-Dielectric Stratified Structures. *IEEE Journal of Quantum Electronics*, **2012**, 48, 1554-1559	2	30
168	1867-2010 nm tunable femtosecond thulium-doped all-fiber laser. *Optics Express*, **2017**, 25, 8997-9002	3.3	29
167	Theoretical investigation of injection-locked high modulation bandwidth quantum cascade lasers. *Optics Express*, **2012**, 20, 1450-64	3.3	29
166	Slowing down terahertz waves with tunable group velocities in a broad frequency range by surface magneto plasmons. *Optics Express*, **2012**, 20, 10071-6	3.3	29
165	SnS2 Nanosheets for Er-Doped Fiber Lasers. *ACS Applied Nano Materials*, **2020**, 3, 674-681	5.6	29
164	GaAs/Al0.15Ga0.85As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. *Applied Physics Letters*, **2010**, 97, 131111	3.4	27
163	9 fn few-cycle optical parametric chirped-pulse amplifier based on LiGaS. *Optics Letters*, **2019**, 44, 2422-2425	3	27
162	High performance infrared photodetectors up to 28 μm wavelength based on lead selenide colloidal quantum dots. *Optical Materials Express*, **2017**, 7, 2326	2.6	25
161	A Simple Nanometeric Plasmonic Narrow-Band Filter Structure Based on MetalInsulatorMetal Waveguide. *IEEE Nanotechnology Magazine*, **2011**, 10, 1371-1376	2.6	25
160	A metal-dielectric-graphene sandwich for surface enhanced Raman spectroscopy. *Nanoscale*, **2014**, 6, 9925-9	7.7	24
159	Converting surface plasmon to spatial Airy beam by graded grating on metal surface. *Optics Letters*, **2013**, 38, 1733-5	3	24
158	Towards low timing phase noise operation in fiber lasers mode locked by graphene oxide and carbon nanotubes at 1.5 μm. *Optics Express*, **2015**, 23, 501-11	3.3	23
157	All Inorganic Mixed Halide Perovskite Nanocrystal-Graphene Hybrid Photodetector: From Ultrahigh Gain to Photostability. *ACS Applied Materials & Interfaces*, **2019**, 11, 27064-27072	9.5	23

156	Room temperature enhanced red emission from novel Eu(3+) doped ZnO nanocrystals uniformly dispersed in nanofibers. *Nanotechnology*, **2011**, 22, 415702	3.4	23
155	Deformed microcavity quantum cascade lasers with directional emission. *New Journal of Physics*, **2009**, 11, 125018	2.9	23
154	Efficient structure for optical interleavers using superimposed chirped fiber Bragg gratings. *IEEE Photonics Technology Letters*, **2005**, 17, 387-389	2.2	23
153	All-fiber Fourier filter flat-top interleaver design with specified performance parameters. *Optical Engineering*, **2003**, 42, 3172	1.1	23
152	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. *Nature Communications*, **2020**, 11, 1863	17.4	22
151	Single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. *Applied Physics Letters*, **2013**, 102, 031119	3.4	22
150	Designer Multimode Localized Random Lasing in Amorphous Lattices at Terahertz Frequencies. *ACS Photonics*, **2016**, 3, 2453-2460	6.3	22
149	High-power passively Q-switched thulium fiber laser with distributed stimulated Brillouin scattering. *Optics Letters*, **2013**, 38, 5474-7	3	21
148	Systematic study of the focal shift effect in planar plasmonic slit lenses. *Nanotechnology*, **2012**, 23, 444002	3.4	21
147	Gigahertz surface acoustic wave generation on ZnO thin films deposited by radio frequency magnetron sputtering on III-V semiconductor substrates. *Journal of Vacuum Science & Technology B*, **2008**, 26, 1848-1851		21
146	All-fiber 3 /spl times/ 3 interleaver design with flat-top passband. *IEEE Photonics Technology Letters* , **2004**, 16, 168-170	2.2	21
145	Mid-IR supercontinuum pumped by femtosecond pulses from thulium doped all-fiber amplifier. *Optics Express*, **2016**, 24, 13939-45	3.3	20
144	Gain competition in dual wavelength quantum cascade lasers. *Optics Express*, **2010**, 18, 9900-8	3.3	20
143	Broadly tunable single-mode mid-infrared quantum cascade lasers. *Journal of Optics (United Kingdom)*, **2015**, 17, 023001	1.7	19
142	Multi-beam multi-wavelength semiconductor lasers. *Applied Physics Letters*, **2009**, 95, 161108	3.4	19
141	Surface-emitting terahertz quantum cascade laser source based on intracavity difference-frequency generation. *Applied Physics Letters*, **2008**, 93, 161110	3.4	19
140	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 Ħn Wavelength. *ACS Photonics*, **2018**, 5, 3689-3694	6.3	18
139	The reduction of surface plasmon losses in quasi-suspended graphene. *Scientific Reports*, **2015**, 5, 9837	4.9	18

138	Multimicrojoule GaSe-based midinfrared optical parametric amplifier with an ultrabroad idler spectrum covering 4.2-16 □m. *Optics Letters*, **2019**, 44, 1003-1006	3	18
137	Reverse surface-polariton cherenkov radiation. *Scientific Reports*, **2016**, 6, 30704	4.9	18
136	Massively parallel ultrafast random bit generation with a chip-scale laser. *Science*, **2021**, 371, 948-952	33.3	18
135	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. *ACS Photonics*, **2017**, 4, 517-524	6.3	17
134	Gibbs-Thomson Effect in Planar Nanowires: Orientation and Doping Modulated Growth. *Nano Letters*, **2016**, 16, 4158-65	11.5	17
133	Coherent emission from integrated Talbot-cavity quantum cascade lasers. *Optics Express*, **2017**, 25, 3077-3082	3.3	17
132	Hybrid III-V/silicon laser with laterally coupled Bragg grating. *Optics Express*, **2015**, 23, 8800-8	3.3	16
131	Recent Developments of Terahertz Quantum Cascade Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-18	3.8	16
130	Activation energy study of electron transport in high performance short wavelengths quantum cascade lasers. *Optics Express*, **2010**, 18, 746-53	3.3	16
129	A Nanoplasmonic High-Pass Wavelength Filter Based on a Metal-Insulator-Metal Circuitous Waveguide. *IEEE Nanotechnology Magazine*, **2011**, 10, 1357-1361	2.6	16
128	Ultracompact 2$,times,$2 Photonic Crystal Waveguide Power Splitter Based on Self-Imaging Effect Realized by Asymmetric Interference. *IEEE Photonics Technology Letters*, **2011**, 23, 1151-1153	2.2	15
127	Photonic Engineering Technology for the Development of Terahertz Quantum Cascade Lasers. *Advanced Optical Materials*, **2020**, 8, 1900573	8.1	15
126	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 7425-7432	4.9	14
125	Passively mode-locked III-V/silicon laser with continuous-wave optical injection. *Optics Express*, **2015**, 23, 6392-9	3.3	14
124	High-Throughput Multiple Dies-to-Wafer Bonding Technology and III/V-on-Si Hybrid Lasers for Heterogeneous Integration of Optoelectronic Integrated Circuits. *Frontiers in Materials*, **2015**, 2,	4	14
123	Transverse mode control in high-contrast grating VCSELs. *Optics Express*, **2014**, 22, 20954-63	3.3	14
122	An all-optical plasmonic limiter based on a nonlinear slow light waveguide. *Nanotechnology*, **2012**, 23, 444014	3.4	14
121	Active Focal Length Control of Terahertz Slitted Plane Lenses by Magnetoplasmons. *Plasmonics*, **2012**, 7, 191-199	2.4	14

120	Low divergence single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. *Optics Express*, **2013**, 21, 31872-82	3.3	14
119	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. *Nature Catalysis*, **2022**, 5, 212-221	36.5	14
118	Band structure of Ge1 Sn x alloy: a full-zone 30-band k p model. *New Journal of Physics*, **2019**, 21, 073037	2.9	13
117	Two-Dimensional Multimode Terahertz Random Lasing with Metal Pillars. *ACS Photonics*, **2018**, 5, 2928-2935	6.5	13
116	Radiation Enhancement by Graphene Oxide on Microelectromechanical System Emitters for Highly Selective Gas Sensing. *ACS Sensors*, **2019**, 4, 2746-2753	9.2	12
115	Bright monolayer tungsten disulfide via exciton and trion chemical modulations. *Nanoscale*, **2018**, 10, 6294-6299	7.7	12
114	Magneto-plasmonics in graphene-dielectric sandwich. *Optics Express*, **2014**, 22, 21727-38	3.3	12
113	Tunable single-mode slot waveguide quantum cascade lasers. *Applied Physics Letters*, **2014**, 104, 201106	3.4	12
112	Importance of the microscopic effects on the linewidth enhancement factor of quantum cascade lasers. *Optics Express*, **2013**, 21, 27804-15	3.3	12
111	High-Performance, Polarization-Sensitive, Long-Wave Infrared Photodetection Photothermoelectric Effect with Asymmetric van der Waals Contacts.. *ACS Nano*, **2022**,	16.7	12
110	Electrically pumped semiconductor laser with low spatial coherence and directional emission. *Applied Physics Letters*, **2019**, 115, 071101	3.4	11
109	Plasmon excitation on flat graphene by s-polarized beams using four-wave mixing. *Optics Express*, **2015**, 23, 7809-19	3.3	11
108	Enhanced light-matter interaction in atomically thin MoS coupled with 1D photonic crystal nanocavity. *Optics Express*, **2017**, 25, 14691-14696	3.3	11
107	Flexible single-mode delivery of a high-power 2 m pulsed laser using an antiresonant hollow-core fiber. *Optics Letters*, **2018**, 43, 2732-2735	3	11
106	Analysis of dielectric loaded surface plasmon waveguide structures: Transfer matrix method for plasmonic devices. *Journal of Applied Physics*, **2012**, 111, 073108	2.5	11
105	Microscopic density matrix model for optical gain of terahertz quantum cascade lasers: Many-body, nonparabolicity, and resonant tunneling effects. *Physical Review B*, **2012**, 86,	3.3	11
104	All-fiber short-wavelength tunable mode-locked fiber laser using normal dispersion thulium-doped fiber. *Optics Express*, **2020**, 28, 17570-17580	3.3	11
103	Strong Plasmon Exciton Interactions on Nanoantenna Array Monolayer WS2 Hybrid System. *Advanced Optical Materials*, **2020**, 8, 1901002	8.1	11

102	Wafer-Scale Dies-Transfer Bonding Technology for Hybrid III/V-on-Silicon Photonic Integrated Circuit Application. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 443-454	3.8	11
101	65-fs Pulses at 2 $mu text{m}$ in a Compact Tm-Doped All-Fiber Laser by Dispersion and Nonliearity Management. *IEEE Photonics Technology Letters*, **2018**, 30, 303-306	2.2	10
100	Emission properties of electrically pumped triangular shaped microlasers. *Optics Express*, **2010**, 18, 16437-42	3.5	10
99	Synthetic jet generation by high-frequency cavitation. *Journal of Fluid Mechanics*, **2017**, 823,	3.7	9
98	The Influence of Imperfections and Absorption on the Performance of a GaAs/AlO $_{rm x}$ High-Contrast Grating for Monolithic Integration With 980 nm GaAs-Based VCSELs. *Journal of Lightwave Technology*, **2013**, 31, 3853-3858	4	9
97	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. *Scientific Reports*, **2014**, 4, 7083	4.9	9
96	High-energy mid-infrared intrapulse difference-frequency generation with 5.3% conversion efficiency driven at 3 μm. *Optics Express*, **2019**, 27, 37706-37713	3.3	9
95	50-W 2-□n Nanosecond All-Fiber-Based Thulium-Doped Fiber Amplifier. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 537-543	3.8	8
94	Three-region characteristic temperature in p-doped quantum dot lasers. *Applied Physics Letters*, **2014**, 104, 041102	3.4	8
93	Design of three-well indirect pumping terahertz quantum cascade lasers for high optical gain based on nonequilibrium Green□ function analysis. *Applied Physics Letters*, **2012**, 100, 122110	3.4	8
92	Flat-passband 3 /spl times/ 3 interleaving filter designed with optical directional couplers in lattice structure. *Journal of Lightwave Technology*, **2005**, 23, 4349-4362	4	8
91	Design of spectrum equalization filter for SLED light source. *Optics Communications*, **2004**, 229, 223-231	2	8
90	Long-wavelength-infrared laser filamentation in solids in the near-single-cycle regime. *Optics Letters*, **2020**, 45, 2175-2178	3	8
89	300 □, 3 W, few-cycle, 3 □n OPCPA based on periodically poled stoichiometric lithium tantalate crystals. *Optics Letters*, **2019**, 44, 2791	3	8
88	A single-walled carbon nanotube wall paper as an absorber for simultaneously achieving passively mode-locked and Q-switched Yb-doped fiber lasers **2013**,		7
87	Design of 100/300 GHz optical interleaver with IIR architectures. *Optics Express*, **2005**, 13, 2643-52	3.3	7
86	Spatial structure of lasing modes in wave-chaotic semiconductor microcavities. *New Journal of Physics*, **2020**, 22, 083002	2.9	7
85	Surface group-modified MXene nano-flake doping of monolayer tungsten disulfides. *Nanoscale Advances*, **2019**, 1, 4783-4789	5.1	7

84	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-10	5.2	7
83	Near-field mapping of the edge mode of a topological valley slab waveguide at □ 1.55 □m. *Applied Physics Letters*, **2020**, 116, 191105	3.4	6
82	Size-Induced Switching of Nanowire Growth Direction: a New Approach Toward Kinked Nanostructures. *Advanced Functional Materials*, **2016**, 26, 3687-3695	15.6	6
81	Probing electron-atom collision dynamics in gas plasma by high-order harmonic spectroscopy. *Optics Letters*, **2018**, 43, 1970-1973	3	6
80	Directional single-mode emission from coupled whispering gallery resonators realized by using ZnS microbelts. *Optics Letters*, **2013**, 38, 1527-9	3	6
79	Fundamental frequency noise and linewidth broadening caused by intrinsic temperature fluctuations in quantum cascade lasers. *Physical Review B*, **2011**, 84,	3.3	6
78	20 W, 2 mJ, sub-ps, 258 nm all-solid-state deep-ultraviolet laser with up to 3 GW peak power. *Optics Express*, **2020**, 28, 18360-18367	3.3	6
77	Directing Cherenkov photons with spatial nonlocality. *Nanophotonics*, **2020**, 9, 3435-3442	6.3	6
76	Optimization of TM modes for amorphous slab lasers. *Optics Express*, **2016**, 24, 4890-4898	3.3	5
75	Broadly continuously tunable slot waveguide quantum cascade lasers based on a continuum-to-continuum active region design. *Applied Physics Letters*, **2015**, 107, 111110	3.4	5
74	1.55 μm high speed low chirp electroabsorption modulated laser arrays based on SAG scheme. *Optics Express*, **2014**, 22, 31286-92	3.3	5
73	Graphene Enhanced Surface Plasmon Resonance Fiber-Optic Biosensor **2016**,		5
72	Flat-Top Pumped Multi-Millijoule Mid-Infrared Parametric Chirped-Pulse Amplifier at 10 kHz Repetition Rate. *Laser and Photonics Reviews*, **2021**, 15, 2000292	8.3	5
71	Quantitative Analysis of Gas Phase IR Spectra Based on Extreme Learning Machine Regression Model. *Sensors*, **2019**, 19,	3.8	5
70	Laser-mode bifurcations induced by PT-breaking exceptional points. *Physical Review A*, **2019**, 99,	2.6	4
69	Optimization of spectral distortion in a ytterbium-doped mode-locked fiber laser system. *Photonics Research*, **2015**, 3, 129	6	4
68	High-efficiency ultrafast Tm-doped fiber amplifier based on resonant pumping. *Optics Letters*, **2018**, 43, 1431-1434	3	4
67	Track-and-Tune Light Field Image Sensor. *IEEE Sensors Journal*, **2014**, 14, 4372-4384	4	4

66	Effects of resonant tunneling and dynamics of coherent interaction on intrinsic linewidth of quantum cascade lasers. *Optics Express*, **2012**, 20, 17145	3.3	4
65	Surface-emitting THz sources based on difference-frequency generation in mid-infrared quantum cascade lasers **2010**,		4
64	Equalization of Gaussian-like spectra with optical lattice filters. *Journal of the Optical Society of America B: Optical Physics*, **2005**, 22, 1498	1.7	4
63	Design of linear-phase two-port optical interleavers using lattice architectures. *Optics Letters*, **2006**, 31, 2411-3	3	4
62	Compact pulsed thulium-doped fiber laser for topographical patterning of hydrogels. *Opto-Electronic Advances*, **2020**, 3, 190039-190039	6.5	4
61	Coherent Pulse Progression of Mid-Infrared Quantum-Cascade Lasers Under Group-Velocity Dispersion and Self-Phase Modulation. *IEEE Journal of Quantum Electronics*, **2016**, 52, 1-6	2	4
60	Multimode lasing in wave-chaotic semiconductor microlasers. *Physical Review A*, **2019**, 100,	2.6	4
59	Tunability of the Free-Spectral Range by Microwave Injection into a Mid-Infrared Quantum Cascade Laser. *Laser and Photonics Reviews*, **2020**, 14, 1900389	8.3	4
58	Optimization of Hybrid Silicon Lasers for High-Speed Direct Modulation. *IEEE Photonics Journal*, **2015**, 7, 1-13	1.8	3
57	Ground-state lasing in high-power InAs/GaAs quantum dots-in-a-well laser using active multimode interference structure. *Optics Letters*, **2015**, 40, 69-72	3	3
56	The Transition from Quantum Field Theory to One-Particle Quantum Mechanics and a Proposed Interpretation of AharonovBohm Effect. *Foundations of Physics*, **2018**, 48, 837-852	1.2	3
55	Terahertz emission from localized modes in one-dimensional disordered systems [Invited]. *Photonics Research*, **2018**, 6, 117	6	3
54	Optical Properties of GaAs/AlO$_{x}$ and Si/SiO $_{x}$ High Contrast Gratings Designed for 980-nm VCSELs. *IEEE Nanotechnology Magazine*, **2014**, 13, 418-424	2.6	3
53	Tailorable infrared emission of microelectromechanical system-based thermal emitters with NiO films for gas sensing. *Optics Express*, **2021**, 29, 19084-19093	3.3	3
52	Pseudo-magnetic field-induced slow carrier dynamics in periodically strained graphene. *Nature Communications*, **2021**, 12, 5087	17.4	3
51	Plasmon-induced thermal tuning of strong plasmon-exciton coupling in monolayer tungsten disulphide excited by few excitons. *Optica*,	8.6	3
50	Microjoule Sub-Two-Cycle Mid-Infrared Intrapulse-DFG Driven by 3- mu m OPCPA. *IEEE Photonics Technology Letters*, **2019**, 31, 1741-1744	2.2	2
49	High-energy single-cycle pulse generation in a parametric amplifier with the optimized angular dispersion. *Applied Physics B: Lasers and Optics*, **2019**, 125, 1	1.9	2

48	High-contrast grating reflectors for 980 nm vertical-cavity surface-emitting lasers **2015**,		2
47	Surface roughness measurement by depolarization method. *Applied Optics*, **2015**, 54, 5686-90	0.2	2
46	High-resolution fiber profilometer for hard-to-access areas. *Applied Optics*, **2015**, 54, 7205-9	0.2	2
45	High Energy Ultrafast Laser at 2 h Using Dispersion Engineered Thulium-Doped Fiber. *IEEE Photonics Journal*, **2019**, 11, 1-12	1.8	2
44	Relative Intensity Noise of Silicon Hybrid Laser. *IEEE Journal of Quantum Electronics*, **2014**, 50, 466-473	2	2
43	Investigation of Tunable Single-Mode Quantum Cascade Lasers Via Surface-Acoustic-Wave Modulation. *IEEE Journal of Quantum Electronics*, **2013**, 49, 1053-1061	2	2
42	Tunable Terahertz plasmonic lens with external magnetic field **2010**,		2
41	Voigt Airy surface magneto plasmons. *Optics Express*, **2012**, 20, 21187-95	3.3	2
40	Optical Fiber Polarization Interferometer for Performance Improvement in Radio-Over-Fiber Systems. *IEEE Photonics Technology Letters*, **2007**, 19, 1236-1238	2.2	2
39	A stable dual-wavelength channel-selectable erbium-doped fiber ring laser using channel wavelength generator. *Optics Communications*, **2003**, 225, 89-94	2	2
38	A conformal transformation approach to wide-angle illusion device and absorber. *Nanophotonics*, **2020**, 9, 3243-3249	6.3	2
37	Heterostrain-enabled dynamically tunable moir superlattice in twisted bilayer graphene. *Scientific Reports*, **2021**, 11, 21402	4.9	2
36	Photonic crystal MEMS emitter for chemical gas sensing **2021**,		2
35	Integrated terahertz optoelectronics **2016**,		2
34	Germanium-on-Carborundum Surface Phonon-Polariton Infrared Metamaterial. *Advanced Optical Materials*, **2021**, 9, 2001652	8.1	2
33	Producing Microscale Ge Textures via Titanium Nitride- and Nickel-Assisted Chemical Etching with CMOS-Compatibility. *Advanced Materials Interfaces*, **2021**, 8, 2100937	4.6	2
32	Reply to: Detectivities of WS/HfS heterojunctions.. *Nature Nanotechnology*, **2022**,	28.7	2
31	n2S3 Nanoplates for Ultrafast Photonics. *ACS Applied Nano Materials*, **2022**, 5, 3229-3236	5.6	2

30	Widely tunable single-mode slot waveguide quantum cascade laser array.. *Optics Express*, **2022**, 30, 629-640	3.5	2
29	Nano-imaging collagen by atomic force, near-field and nonlinear microscope **2015**,		1
28	Band Structure of Strained $mathrm{Ge}_{1-x}~mathrm{Sn}_{x}$ Alloy: A Full-Zone 30-Band ${k}cdot{p}$ Model. *IEEE Journal of Quantum Electronics*, **2020**, 56, 1-8	2	1
27	Graphene-based tunable Bragg reflector with a broad bandwidth **2014**,		1
26	Magnetopolariton in bilayer graphene: A tunable ultrastrong light-matter coupling. *Physical Review B*, **2014**, 89,	3.3	1
25	Fiber profilometer for measurement of hard-to-access areas **2013**,		1
24	Gaussian-like spectra equalization with linear-phase lattice filters. *Journal of the Optical Society of America B: Optical Physics*, **2007**, 24, 615	1.7	1
23	Cost-effective optical modulation depth enhancement and optical carrier recovery in millimeter-wave fiber-wireless links using an all-fiber optical interleaver **2006**,		1
22	Equalization of Gaussian-Like Spectra via Optical Lattice Filters With Symmetric-Feedback Structure. *Journal of Lightwave Technology*, **2006**, 24, 5103-5110	4	1
21	Linear-phase fiber lattice equalizer for Gaussian-like spectra. *Optical Engineering*, **2006**, 45, 080507	1.1	1
20	High-energy Pulse Generation at 1.76 Ħh from All-fiber Laser Configuration using Normal Dispersion Thulium-doped Fiber **2020**,		1
19	Tm/Ho co-doped mode-locked fiber laser based on graphene transferred on side-polished fiber **2015**,		1
18	Amorphous Random Lasing at Terahertz Frequency **2016**,		1
17	Self-compression of mJ pulses to 10 fs in hollow core waveguide: effects of higher-order dispersion. *Journal of the Optical Society of America B: Optical Physics*,	1.7	1
16	Theoretical design of mid-infrared interband cascade lasers in SiGeSn system. *New Journal of Physics*, **2020**, 22, 083061	2.9	1
15	Coupling of Sub-Terawatt Laser Into Hollow Core Waveguide for High-Harmonic Generation Above 200 eV. *IEEE Photonics Technology Letters*, **2020**, 1-1	2.2	1
14	Photon-generated carrier transfer process from graphene to quantum dots: optical evidences and ultrafast photonics applications. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	1
13	W-type normal dispersion thulium-doped fiber-based high-energy all-fiber femtosecond laser at 1.7 μm. *Optics Letters*, **2021**, 46, 3637-3640	3	1

12	1975 nm Linearly-Polarized MOFA CPA System Based on CFBG Stretcher and 1+3-Pass CVBG Compressor Configuration **2019**,		1
11	Scattering by lossy anisotropic scatterers: A modal approach. *Journal of Applied Physics*, **2021**, 129, 113104	2.5	1
10	Superradiant phase transition with graphene embedded in one dimensional optical cavity. *Superlattices and Microstructures*, **2018**, 113, 401-408	2.8	1
9	Multistate Tuning of Third Harmonic Generation in Fano-Resonant Hybrid Dielectric Metasurfaces. *Advanced Functional Materials*,2104627	15.6	1
8	Polarization-robust mid-infrared carpet cloak with minimized lateral shift. *Photonics Research*, **2021**, 9, 944	6	0
7	Sensitive control of broad-area semiconductor lasers by cavity shape. *APL Photonics*, **2022**, 7, 056106	5.2	0
6	A generalized analytical model of gain bandwidth for design of optical parametric amplifiers. *Optics Communications*, **2019**, 449, 1-7	2	
5	Mid-Infrared Grayscale Metasurface Holograms. *Applied Sciences (Switzerland)*, **2020**, 10, 552	2.6	
4	OPTICAL GAIN AND ENERGY BAND STRUCTURE OF PHOTONIC CRYSTAL VCSELs WITH HIGH-INDEX-CONTRAST SUBWAVELENGTH GRATINGS. *Journal of Molecular and Engineering Materials*, **2014**, 02, 1440014	1.3	
3	Multistate Tuning of Third Harmonic Generation in Fano-Resonant Hybrid Dielectric Metasurfaces (Adv. Funct. Mater. 48/2021). *Advanced Functional Materials*, **2021**, 31, 2170356	15.6	
2	Far-field controllable excitation of phonon polariton via nanostructure engineering. *Optics Express*, **2020**, 28, 39156-39164	3.3	
1	Long wavelength (▷ 13 ㎛) quantum cascade laser based on diagonal transition and three-phonon-resonance design. *Applied Physics Letters*, **2021**, 119, 131105	3.4	