Mikhail A Belkin

List of Publications by Year
in descending order

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209 papers	7,006 citations	66234 42 h-index	58464 82 g-index
212 all docs	212 docs citations	212 times ranked	5822 citing authors

#	Article	IF	Citations
1	Twisted optical metamaterials for planarized ultrathin broadband circular polarizers. Nature Communications, 2012, 3, 870.	5.8	868
2	Giant nonlinear response from plasmonic metasurfaces coupled to intersubband transitions. Nature, 2014, 511, 65-69.	13.7	550
3	Terahertz quantum-cascade-laser source based on intracavity difference-frequency generation. Nature Photonics, 2007, 1, 288-292.	15.6	283
4	Tip-enhanced infrared nanospectroscopy via molecular expansion force detection. Nature Photonics, 2014, 8, 307-312.	15.6	266
5	Room temperature terahertz quantum cascade laser source based on intracavity difference-frequency generation. Applied Physics Letters, 2008, 92, .	1.5	199
6	Terahertz quantum cascade lasers with copper metal-metal waveguides operating up to 178 K. Optics Express, 2008, 16, 3242.	1.7	194
7	Sum-Frequency Vibrational Spectroscopy on Chiral Liquids: A Novel Technique to Probe Molecular Chirality. Physical Review Letters, 2000, 85, 4474-4477.	2.9	190
8	Widely tunable single-mode quantum cascade laser source for mid-infrared spectroscopy. Applied Physics Letters, 2007, 91, .	1.5	190
9	Gradient Nonlinear Pancharatnam-Berry Metasurfaces. Physical Review Letters, 2015, 115, 207403.	2.9	190
10	Mode-locked pulses from mid-infrared Quantum Cascade Lasers. Optics Express, 2009, 17, 12929.	1.7	168
11	Broadly tunable terahertz generation in mid-infrared quantum cascade lasers. Nature Communications, 2013, 4, 2021.	5.8	167
12	New frontiers in quantum cascade lasers: high performance room temperature terahertz sources. Physica Scripta, 2015, 90, 118002.	1.2	157
13	Experimental demonstration of the microscopic origin of circular dichroism in two-dimensional metamaterials. Nature Communications, 2016, 7, 12045.	5.8	155
14	Sum-Frequency Generation in Chiral Liquids near Electronic Resonance. Physical Review Letters, 2001, 87, 113001.	2.9	134
15	Surface emitting terahertz quantum cascade laser with a double-metal waveguide. Optics Express, 2006, 14, 11672.	1.7	121
16	High-Temperature Operation of Terahertz Quantum Cascade Laser Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 952-967.	1.9	111
17	Non-linear optical spectroscopy as a novel probe for molecular chirality. International Reviews in Physical Chemistry, 2005, 24, 257-299.	0.9	105
18	Directional emission and universal far-field behavior from semiconductor lasers with limaÃ§on-shaped microcavity. Applied Physics Letters, 2009, 94, .	1.5	103

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19	Infrared absorption nano-spectroscopy using sample photoexpansion induced by tunable quantum cascade lasers. Optics Express, 2011, 19, 19942.	1.7	95
20	DFB Quantum Cascade Laser Arrays. IEEE Journal of Quantum Electronics, 2009, 45, 554-565.	1.0	94
21	Terahertz sources based on ÄŒerenkov difference-frequency generation in quantum cascade lasers. Applied Physics Letters, 2012, 100, .	1.5	93
22	Ultrafast Electrically Tunable Polaritonic Metasurfaces. Advanced Optical Materials, 2014, 2, 1057-1063.	3.6	93
23	Doubly Resonant IR-UV Sum-Frequency Vibrational Spectroscopy on Molecular Chirality. Physical Review Letters, 2003, 91, 213907.	2.9	91
24	Ultrathin gradient nonlinear metasurface with a giant nonlinear response. Optica, 2016, 3, 283.	4.8	89
25	Ultrathin Secondâ€Harmonic Metasurfaces with Recordâ€High Nonlinear Optical Response. Advanced Optical Materials, 2016, 4, 664-670.	3.6	86
26	Experimental Demonstration of Phase Modulation and Motion Sensing Using Graphene-Integrated Metasurfaces. Nano Letters, 2016, 16, 3607-3615.	4.5	84
27	Plasmonic quantum cascade laser antenna. Applied Physics Letters, 2007, 91, 173113.	1.5	70
28	Beam combining of quantum cascade laser arrays. Optics Express, 2009, 17, 16216.	1.7	69
29	Broadly tunable monolithic room-temperature terahertz quantum cascade laser sources. Nature Communications, 2014, 5, 4267.	5.8	69
30	High-sensitivity infrared vibrational nanospectroscopy in water. Light: Science and Applications, 2017, 6, e17096-e17096.	7.7	67
31	Recent progress in terahertz difference-frequency quantum cascade laser sources. Nanophotonics, 2018, 7, 1795-1817.	2.9	67
32	Broadband Distributed-Feedback Quantum Cascade Laser Array Operating From 8.0 to 9.8 mum. IEEE Photonics Technology Letters, 2009, 21, 914-916.	1.3	63
33	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.	2.0	59
34	Terahertz generation in mid-infrared quantum cascade lasers with a dual-upper-state active region. Applied Physics Letters, 2015, 106, .	1.5	56
35	Toward Chiral Sum-Frequency Spectroscopy. Journal of the American Chemical Society, 2006, 128, 8845-8848.	6.6	50
36	Sum-frequency vibrational spectroscopy of chiral liquids off and close to electronic resonance and the antisymmetric Raman tensor. Journal of Chemical Physics, 2004, 120, 10118-10126.	1.2	48

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37	External cavity terahertz quantum cascade laser sources based on intra-cavity frequency mixing with 1.2â€“5.9 THz tuning range. Journal of Optics (United Kingdom), 2014, 16, 094002.	1.0	47
38	High-Performance Quantum Cascade Lasers Grown by Metal-Organic Vapor Phase Epitaxy and Their Applications to Trace Gas Sensing. Journal of Lightwave Technology, 2008, 26, 3534-3555.	2.7	46
39	Wide-ridge metal-metal terahertz quantum cascade lasers with high-order lateral mode suppression. Applied Physics Letters, 2008, 92, .	1.5	46
40	Dynamics of actively mode-locked Quantum Cascade Lasers. Optics Express, 2010, 18, 13616.	1.7	46
41	Nonlinear processes in multi-quantum-well plasmonic metasurfaces: Electromagnetic response, saturation effects, limits, and potentials. Physical Review B, 2015, 92, .	1.1	46
42	Sum-frequency spectroscopy of electronic resonances on a chiral surface monolayer of bi-naphthol. Physical Review B, 2002, 66, .	1.1	45
43	Coupled-oscillator model for nonlinear optical activity. Chemical Physics Letters, 2002, 363, 479-485.	1.2	43
44	Sum-Frequency Vibrational Spectroscopy of a Helically Structured Conjugated Polymer. Physical Review Letters, 2004, 93, 267402.	2.9	42
45	Single-mode laser action in quantum cascade lasers with spiral-shaped chaotic resonators. Applied Physics Letters, 2007, 91, .	1.5	41
46	Microfluidic tuning of distributed feedback quantum cascade lasers. Optics Express, 2006, 14, 11660.	1.7	38
47	Temperature performance analysis of terahertz quantum cascade lasers: Vertical versus diagonal designs. Applied Physics Letters, 2010, 96, .	1.5	35
48	Electrically tunable nonlinear polaritonic metasurface. Nature Photonics, 2022, 16, 72-78.	15.6	34
49	Deformed microcavity quantum cascade lasers with directional emission. New Journal of Physics, 2009, 11, 125018.	1.2	33
50	Spectral purity and tunability of terahertz quantum cascade laser sources based on intracavity difference-frequency generation. Science Advances, 2017, 3, e1603317.	4.7	33
51	Spectroscopic Study of Terahertz Generation in Mid-Infrared Quantum Cascade Lasers. Scientific Reports, 2016, 6, 21169.	1.6	32
52	Giant Nonlinear Circular Dichroism from Intersubband Polaritonic Metasurfaces. Nano Letters, 2020, 20, 8032-8039.	4.5	32
53	Design and fabrication of photonic crystal quantum cascade lasers for optofluidics. Optics Express, 2007, 15, 4499.	1.7	31
54	GaAs/Al0.15Ga0.85As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. Applied Physics Letters, 2010, 97, 131111.	1.5	31

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55	Angular emission characteristics of quantum cascade spiral microlasers. Optics Express, 2009, 17, 10335.	1.7	28
56	Homogeneous photonic integration of mid-infrared quantum cascade lasers with low-loss passive waveguides on an InP platform. Optica, 2019, 6, 1023.	4.8	28
57	Advanced control of nonlinear beams with Pancharatnam-Berry metasurfaces. Physical Review B, 2016, 94, .	1.1	27
58	Surface-emitting terahertz quantum cascade laser source based on intracavity difference-frequency generation. Applied Physics Letters, 2008, 93, 161110.	1.5	26
59	Dielectric properties of semi-insulating Fe-doped InP in the terahertz spectral region. Scientific Reports, 2017, 7, 7360.	1.6	26
60	Broadband and Efficient Second-Harmonic Generation from a Hybrid Dielectric Metasurface/Semiconductor Quantum-Well Structure. ACS Photonics, 2019, 6, 1458-1465.	3.2	26
61	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces. Optica, 2021, 8, 606.	4.8	26
62	Formation of Quantum Phase Slip Pairs in Superconducting Nanowires. Physical Review X, 2015, 5, .	2.8	25
63	Terahertz difference-frequency quantum cascade laser sources on silicon. Optica, 2017, 4, 38.	4.8	25
64	Improved terahertz quantum cascade laser with variable height barriers. Journal of Applied Physics, 2012, 111, 103106.	1.1	24
65	An All-Dielectric Polaritonic Metasurface with a Giant Nonlinear Optical Response. Nano Letters, 2022, 22, 896-903.	4.5	22
66	Multi-beam multi-wavelength semiconductor lasers. Applied Physics Letters, 2009, 95, .	1.5	21
67	Tunable Graphene Metasurfaces with Gradient Features by Selfâ€Assemblyâ€Based MoirÃ© Nanosphere Lithography. Advanced Optical Materials, 2016, 4, 2035-2043.	3.6	21
68	Highly-efficient THz generation using nonlinear plasmonic metasurfaces. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	20
69	Intra-cavity absorption spectroscopy with narrow-ridge microfluidic quantum cascade lasers. Optics Express, 2007, 15, 11262.	1.7	19
70	Rapidly Tunable Quantum Cascade Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-9.	1.9	18
71	Electrical tuning of the polarization state of light using graphene-integrated anisotropic metasurfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160061.	1.6	18
72	Quantum cascade lasers transfer-printed on silicon-on-sapphire. Applied Physics Letters, 2017, 111, .	1.5	18

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73	Strong Coupling in All-Dielectric Intersubband Polaritonic Metasurfaces. Nano Letters, 2021, 21, 367-374.	4.5	18
74	Widely tunable terahertz source based on intra-cavity frequency mixing in quantum cascade laser arrays. Applied Physics Letters, 2015, 106, .	1.5	17
75	Quantum Confinement in Oxide Heterostructures: Room-Temperature Intersubband Absorption in SrTiO₃/LaAlO₃ Multiple Quantum Wells. ACS Nano, 2018, 12, 7682-7689.	7.3	15
76	Spinâ€Controlled Nonlinear Harmonic Generations from Plasmonic Metasurfaces Coupled to Intersubband Transitions. Advanced Optical Materials, 2020, 8, 2000004.	3.6	15
77	Mid-infrared microring resonators and optical waveguides on an InP platform. Applied Physics Letters, 2022, 120, .	1.5	15
78	Room-temperature operation of 3.6â€,Î¼mâ€ˆIn0.53Ga0.47As/Al0.48In0.52As quantum cascade laser sources based on intracavity second harmonic generation. Applied Physics Letters, 2010, 97, .	1.5	14
79	Experimental investigation of terahertz quantum cascade laser with variable barrier heights. Journal of Applied Physics, 2014, 115, 163103.	1.1	14
80	Purcell enhancement of the parametric down-conversion in two-dimensional nonlinear materials. APL Photonics, 2019, 4, 034403.	3.0	14
81	THz Difference-Frequency Generation in MOVPE-Grown Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2014, 26, 391-394.	1.3	13
82	Resonant sum-frequency generation in chiral liquids. Optical Materials, 2003, 21, 1-5.	1.7	12
83	Optically tunable long wavelength infrared quantum cascade laser operated at room temperature. Applied Physics Letters, 2013, 102, .	1.5	12
84	Thermopile detector of light ellipticity. Nature Communications, 2016, 7, 12994.	5.8	12
85	Differenceâ€Frequency Generation in Polaritonic Intersubband Nonlinear Metasurfaces. Advanced Optical Materials, 2018, 6, 1800681.	3.6	12
86	Mid-infrared second-harmonic generation in ultra-thin plasmonic metasurfaces without a full-metal backplane. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	12
87	Fully-integrated implementation of large time constant Gm-C integrators. Electronics Letters, 2007, 43, 23.	0.5	11
88	Broadly wavelength tunable bandpass filters based on long-range surface plasmon polaritons. Optics Letters, 2011, 36, 3744.	1.7	11
89	Recent Progress in Widely Tunable Single-Mode Room Temperature Terahertz Quantum Cascade Laser Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 134-143.	1.9	11
90	Room-Temperature $lambdaapprox 2.7~mu{m m}$ Quantum Cascade Laser Sources Based on Intracavity Second-Harmonic Generation. IEEE Journal of Quantum Electronics, 2011, 47, 691-697.	1.0	10

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91	Strain compensated superlattices on <i>m</i>-plane gallium nitride by ammonia molecular beam epitaxy. Journal of Applied Physics, 2017, 122, .	1.1	10
92	Double-metal waveguide terahertz difference-frequency generation quantum cascade lasers with surface grating outcouplers. Applied Physics Letters, 2018, 113, 161102.	1.5	10
93	Optically active second-harmonic generation from a uniaxial fluid medium. Optics Letters, 2004, 29, 1527.	1.7	9
94	Quasiphase matching of second-harmonic generation in quantum cascade lasers by Stark shift of electronic resonances. Applied Physics Letters, 2006, 88, 201108.	1.5	9
95	Terahertz sources based on intracavity frequency mixing in mid-infrared quantum cascade lasers with passive nonlinear sections. Applied Physics Letters, 2011, 98, 151114.	1.5	9
96	Mid-Infrared Quantum Cascade Lasers With Electrical Control of the Emission Frequency. IEEE Journal of Quantum Electronics, 2013, 49, 60-64.	1.0	9
97	Enhancement of the spontaneous emission in subwavelength quasi-two-dimensional waveguides and resonators. Physical Review A, 2018, 97, .	1.0	9
98	Structural and optical properties of nonpolar m- and a-plane GaN/AlGaN heterostructures for narrow-linewidth mid-infrared intersubband transitions. Applied Physics Letters, 2020, 116, 201103.	1.5	7
99	Surface-emitting THz sources based on difference-frequency generation in mid-infrared quantum cascade lasers. Proceedings of SPIE, 2010, , .	0.8	5
100	Distributed feedback quantum cascade laser with optically tunable emission frequency. Applied Physics Letters, 2013, 103, 041120.	1.5	5
101	Experimental study of the Î±-factor in InGaAs/AlGaAs/GaAs strained quantum-well lasers. Quantum Electronics, 2000, 30, 315-320.	0.3	4
102	Shortâ€wavelength InP quantum cascade laser sources by quasiâ€phaseâ€matched intracavity secondâ€harmonic generation. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 298-301.	0.8	4
103	Mid-infrared quantum cascade laser arrays with electrical switching of emission frequencies. AIP Advances, 2018, 8, .	0.6	4
104	Infrared Vibrational Spectroscopy of Functionalized Atomic Force Microscope Probes using Resonantly Enhanced Infrared Photoexpansion Nanospectroscopy. Small Methods, 2019, 3, 1900018.	4.6	4
105	Chirality Probed by Sum-Frequency Vibrational Spectroscopy for Helically Structured Conjugated Liquid Crystalline Polymers. Molecular Crystals and Liquid Crystals, 2005, 436, 73/[1027]-81/[1035].	0.4	3
106	Microwatt-level terahertz sources based on intra-cavity difference-frequency generation in mid-infrared quantum cascade lasers. , 2008, , .		3
107	Wavelength beam combining of quantum cascade laser arrays for remote sensing. Proceedings of SPIE, 2009, , .	0.8	3
108	Room-temperature 2.95â€…[micro sign]m quantum cascade laser sources based on intra-cavity frequency doubling. Electronics Letters, 2011, 47, 667.	0.5	3

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109	Widely-tunable optical bandpass filter based on long-range surface plasmon polaritons. , 2012, , .		3
110	Metamaterials based on intersubband polaritons. , 2013, , .		3
111	Widely tunable thermo-optic plasmonic bandpass filter. Applied Physics Letters, 2013, 103, 181115.	1.5	3
112	Low-Loss Ge-on-GaAs Platform for Mid-Infrared Photonics. , 2017, , .		3
113	Anomalous dispersion, differential gain, and dispersion of the Î±-factor in InGaAs/AlGaAs/GaAs strained quantum-well semiconductor lasers. Semiconductors, 2000, 34, 1207-1213.	0.2	2
114	InGaAs/AlInAs quantum cascade laser sources based on intra-cavity second harmonic generation emitting in 2.6-3.6 micron range. , 2011, , .		2
115	Narrow-linewidth ultra-broadband terahertz sources based on difference-frequency generation in mid-infrared quantum cascade lasers. , 2017, , .		2
116	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces. , 2020, , .		2
117	Terahertz Quantum Cascade Laser Source Based on Intra-Cavity Difference-Frequency Generation. , 2007, , .		1
118	Current Injection Spiral-Shaped Chaotic Microcavity Quantum Cascade Lasers. , 2007, , .		1
119	Mode-locking via active gain modulation in quantum cascade lasers. , 2009, , .		1
120	Broadband Distributed Feedback Quantum Cascade Laser Array Using A Heterogeneous Cascade. , 2009, , .		1
121	Upper limits on terahertz difference frequency generation power in quantum well heterostructures. , 2011, , .		1
122	Nonlinear GaInAs/AlInAs/InP quantum cascade laser sources for wavelength generation in the 2.7-70 Î¼m wavelength range. Proceedings of SPIE, 2012, , .	0.8	1
123	Terahertz quantum cascade laser sources based on ÄŒerenkov difference-frequency generation. , 2012, , .		1
124	Terahertz quantum cascade laser sources based on difference-frequency generation: from passive nonlinearity to leaky THz waveguide device concept. Proceedings of SPIE, 2012, , .	0.8	1
125	THz quantum cascade lasers for operation above cryogenic temperatures. , 2013, , .		1
126	Mid-infrared absorption nanospectroscopy via molecular force detection. , 2013, , .		1

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127	Metasurfaces: Ultrafast Electrically Tunable Polaritonic Metasurfaces (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	1
128	Nonlinear optics with quantum-engineered intersubband metamaterials. , 2015, , .		1
129	Giant nonlinear processes in plasmonic metasurfaces. , 2015, , .		1
130	Flat nonlinear optics with ultrathin highly-nonlinear metasurfaces. , 2016, , .		1
131	Gradient nonlinear metasurfaces for continuous phase control. , 2016, , .		1
132	Control of Second-Harmonic Generation in Dielectric Polaritonic Metasurfaces Using Ï‡(2) Polarity Switching. , 2021, , .		1
133	All-Dielectric Intersubband Polaritonic Metasurface with Giant Second-Order Nonlinear Response. , 2020, , .		1
134	Broadly-Tunable Room-Temperature Monolithic Terahertz Quantum Cascade Laser Sources. , 2015, , .		1
135	Spatial Hole Burning in Actively Mode-Locked Quantum Cascade Lasers. , 2009, , .		1
136	THz Quantum Cascade Sources based on Intra-cavity Frequency Mixing in Passive Nonlinear Sections. , 2011, , .		1
137	Broadly Tunable Room Temperature Monolithic Terahertz Quantum Cascade Laser Sources. , 2014, , .		1
138	Defect Tolerance of Intersubband Transitions in Nonpolar <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Ga</mml:mi><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mo>/</mml:mo><mml:mo stretchy="false">(</mml:mo><mml:mi>Al</mml:mi><mml:mo>,</mml:mo><mml:mi>Ga</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlo mathvariant="normal">N</mml:mi></m	1.5	1
139	Overcoming Intensity Saturation in Nonlinear Multipleâ€Quantumâ€Well Metasurfaces for Highâ€Efficiency Frequency Upconversion. Advanced Materials, 2021, , 2106902.	11.1	1
140	Sum-frequency vibrational spectroscopy on molecular chirality. , 0, , .		0
141	Nonlinear Quantum Cascade Lasers: Toward Broad Tunability and Short-Wavelength Operation. , 2007, , .		0
142	Erratum for â€˜Double-metal waveguide â‰ƒ19â€…[micro sign]m quantum cascade lasers grown by metal organic vapour phase epitaxyâ€™. Electronics Letters, 2007, 43, 1476.	0.5	0
143	Terahertz difference frequency generation in quantum cascade lasers. , 2007, , .		0
144	Low-Divergence Surface-Emitting Terahertz Quantum Cascade Lasers. , 2007, , .		0

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145	Broadly Tunable Single-Mode Quantum Cascade Laser Source. , 2007, , .		0
146	Terahertz frequency quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
147	Continuously tunable compact single-mode quantum cascade laser source for chemical sensing. , 2008, , .		0
148	Wide ridge low-divergence metal-metal terahertz quantum cascade lasers. , 2008, , .		0
149	Terahertz sources based on difference-frequency generation near exit facets in dual-wavelength mid-infrared quantum cascade lasers. , 2010, , .		0
150	Corrections to â€œHigh Performance Quantum Cascade Lasers Grown by Metal-Organic Vapor Phase Epitaxy and Their Applications to Trace Gas Sensingâ€•[Nov 08 3534-3555]. Journal of Lightwave Technology, 2010, 28, 984-984.	2.7	0
151	Injectorless quantum cascade lasers for room-temperature short-wavelength emission by efficient second-harmonic generation. , 2010, , .		0
152	Widely tunable waveguide filters based on long-range surface plasmon polaritons. , 2011, , .		0
153	GaAs/Al<inf>0.15</inf>Ga<inf>0.85</inf>As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. , 2011, , .		0
154	Intersubband Raman laser for operation in terahertz. , 2011, , .		0
155	Quantum-cascade laser-based nanoscale photoexpansion micro-spectroscopy in mid-infrared and terahertz. , 2011, , .		0
156	THz quantum cascade sources based on intra-cavity frequency mixing in passive nonlinear sections. , 2011, , .		0
157	Widely wavelength tunable optical filters using characteristics of long-range surface plasmon polaritons. , 2012, , .		0
158	Fast electrical wavelength modulation of mid-infrared quantum cascade lasers. , 2012, , .		0
159	Terahertz quantum cascade laser sources based on Cherenkov intra-cavity difference-frequency generation. , 2012, , .		0
160	Plasmonic-enhanced infrared photoexpansion nano-spectroscopy using tunable quantum cascade lasers. , 2012, , .		0
161	Terahertz and mid-infrared photoexpansion nanospectroscopy. Proceedings of SPIE, 2013, , .	0.8	0
162	Mid-wave infrared and terahertz quantum cascade lasers based on resonant nonlinear frequency mixing. Proceedings of SPIE, 2013, , .	0.8	0

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163	Widely wavelength tunable thermo-optic bandpass filters based on long-range surface plasmon polaritons. , 2013, , .		0
164	Injectorless quantum cascade lasers as low threshold THz sources. , 2013, , .		0
165	High performance room-temperature terahertz intracavity difference-frequency generation in quantum cascade lasers. , 2013, , .		0
166	Broadly tunable external cavity terahertz source from 1.2∼5.9 THz. , 2014, , .		0
167	Monolithic tunable terahertz quantum cascade laser source based on difference frequency generation. , 2014, , .		0
168	Strong non-linear non-reciprocity using leaky-waves on multi quantum well layers. , 2015, , .		0
169	Second and third-order giant non-linear processes in plasmonic metasurfaces. , 2015, , .		0
170	Flat nonlinear optics: Efficient frequency conversion in ultrathin nonlinear metasurfaces. , 2015, , .		0
171	Efficient terahertz-wave generation in mid-infrared quantum-cascade lasers with a common dual-upper-state active region. , 2015, , .		0
172	Active Epsilon-Near-Zero Infrared Metamaterials. , 2015, , .		0
173	High power MWIR quantum cascade lasers and their use in intra-cavity THz room temperature generation. Proceedings of SPIE, 2015, , .	0.8	0
174	Highly-nonlinear quantum-engineered polaritonic metasurfaces. Proceedings of SPIE, 2015, , .	0.8	0
175	Infrared Nanospectroscopy in Liquid. , 2016, , .		0
176	Spectroscopic study of terahertz difference-frequency nonlinear susceptibility in mid-infrared quantum cascade lasers. , 2016, , .		0
177	Room-temperature THz sources based on intra-cavity difference-frequency mixing in mid-infrared quantum cascade lasers. , 2016, , .		0
178	Plasmonic Metasurfaces: Tunable Graphene Metasurfaces with Gradient Features by Self-Assembly-Based MoirÃ© Nanosphere Lithography (Advanced Optical Materials 12/2016). Advanced Optical Materials, 2016, 4, 1904-1904.	3.6	0
179	Ultrathin nonlinear metasurfaces. , 2016, , .		0
180	Ultrathin nonlinear metasurfaces with continuous phase control at the nanoscale. , 2016, , .		0

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181	Terahertz difference frequency generation in quantum cascade lasers on silicon. , 2017, , .		0
182	Flat nonlinear optics: metasurfaces for efficient frequency mixing. , 2017, , .		0
183	A Hybrid Dielectric-Semiconductor Metasurface for Efficient Second-Harmonic Generation. , 2018, , .		0
184	Hybrid Dielectric Metasurfaces: From Strong Light-Matter Interaction to Extreme Nonlinearities. , 2019, , .		0
185	Electrically tunable quarter waveplate based on intersubband polaritonic metasurfaces. , 2021, , .		0
186	Terahertz quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
187	Directional micro-cavity lasers with LimaÃ§on-shaped chaotic resonator. , 2009, , .		0
188	Tip-enhanced photoexpansion nano-spectroscopy using tunable quantum cascade lasers. , 2012, , .		0
189	Terahertz Quantum Cascade Laser Sources Based on Cherenkov Intra-Cavity Difference-Frequency Generation. , 2012, , .		0
190	Room-temperature Quantum Cascade Laser Sources of Terahertz Radiation. , 2013, , .		0
191	Terahertz difference-frequency generation in quantum cascade lasers with high conversion efficiency. , 2013, , .		0
192	Terahertz Quantum Cascade Laser Performance for Structures with Variable Barrier Heights. , 2013, , .		0
193	Broadly tunable room temperature terahertz quantum cascade laser sources. , 2013, , .		0
194	Ultra-sensitive mid-infrared photoexpansion nanospectroscopy with background suppression. , 2014, , .		0
195	Ultrafast voltage-tunable plasmonic metamaterials based on intersubband polaritons. , 2014, , .		0
196	Widely-Tunable Monolithic Terahertz Quantum Cascade Laser Sources Based on Difference-Frequency Generation. , 2014, , .		0
197	Ohmic Loss Produces Chiral Dichroism in Plasmonic Metasurfaces: First Experimental Demonstration. , 2015, , .		0
198	Background-Free Heterodyne Photoexpansion Infrared Nanospectroscopy. , 2015, , .		0

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199	Giant nonlinear response of polaritonic metasurfaces coupled to intersubband transition. , 2015, , .		0
200	Two-Dimensional Pump Frequency Study of THz Generation in Mid-Infrared Quantum Cascade Lasers. , 2015, , .		0
201	Monolithic bipolar thermopile detector sensitive to light ellipticity. , 2016, , .		0
202	Difference-Frequency Generation Quantum Cascade Laser Sources on Silicon. , 2017, , .		0
203	1.9 THz Difference-Frequency Generation in Mid-Infrared Quantum Cascade Lasers with Grating Outcouplers. , 2017, , .		0
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