

Karl Unterrainer

List of Publications by Year in descending order

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433
papers

7,169
citations

66234

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71532

76
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438
all docs

438
docs citations

438
times ranked

5686
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon integrated terahertz quantum cascade ring laser frequency comb. Applied Physics Letters, 2022, 120, .	1.5	8
2	Comb Formation In Ultrathin Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0
3	Towards Holistic Control of THz Quantum Cascade Random Lasers. , 2021, , .		0
4	Comb operation in terahertz quantum cascade ring lasers. Optica, 2021, 8, 780.	4.8	27
5	Terahertz Optical Machine Learning. , 2021, , .		0
6	All-Optical Control of Quantum Cascade Random Lasers Enhanced by Deep Learning. , 2021, , .		0
7	Synthesized Terahertz Frequency Combs. , 2021, , .		0
8	Terahertz Amplifier with Optical Threshold. , 2021, , .		0
9	Comb Operation in Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0
10	Deep learning control of THz QCLs. Optics Express, 2021, 29, 23611.	1.7	6
11	Terahertz Quantum Cascade Amplifier with Optical Threshold. , 2021, , .		0
12	Flexible terahertz opto-electronic frequency comb light source tunable over 3.5â€‰THz. Optics Letters, 2021, 46, 5715.	1.7	6
13	Landau level laser. Nature Photonics, 2021, 15, 875-883.	15.6	4
14	All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530.	5.8	19
15	Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	0
16	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. Physical Review Applied, 2020, 14, .	1.5	7
17	Resonant tunneling diodes strongly coupled to the cavity field. Applied Physics Letters, 2020, 116, .	1.5	7
18	A Coupled-Spiral Silicon Nitride Organic-Hybrid Laser. IEEE Photonics Technology Letters, 2020, 32, 561-564.	1.3	2

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19	Terahertz optical machine learning for object recognition. APL Photonics, 2020, 5, .	3.0	8
20	Controlling and shaping the THz emission from Quantum Cascade Lasers. , 2020, , .		0
21	Evaluation of Material Systems for THz Quantum Cascade Laser Active Regions. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800504.	0.8	11
22	Dual-Lasing Channel of a High-Temperature Terahertz Quantum Cascade Laser. , 2019, , .		0
23	Laser Level Selection in Terahertz Quantum Cascade Lasers. , 2019, , .		0
24	Gain dynamics in THz QCLs and its implication for THz comb sources. , 2019, , .		0
25	Thermal Conductivity for Different Barrier Compositions of Terahertz Quantum Cascade Lasers. , 2019, , .		0
26	Dielectric control of localized plasmons in terahertz metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2019, 37, 100734.	1.0	4
27	Color switching of a terahertz quantum cascade laser. Applied Physics Letters, 2019, 114, 191104.	1.5	8
28	Scattering strength dependence of terahertz random lasers. Journal of Applied Physics, 2019, 125, 151611.	1.1	5
29	Intersubband Polaritons in Triple Barrier Resonant Tunneling Diodes. , 2019, , .		0
30	Ultrastrong coupling experiments with superradiant meta-atoms. , 2019, , .		0
31	Investigation of Electrical Transport in Semiconductor Heterostructure Devices Coupled Strongly to the Light Field. , 2019, , .		0
32	Optically Tunable Terahertz Quantum Cascade Random Lasers. , 2019, , .		0
33	Losses and Fundamental Interaction Properties of THz Meta-Atoms Strongly Coupled to Intersubband Transitions. , 2019, , .		0
34	Slot-Waveguide Silicon Nitride Organic Hybrid Distributed Feedback Laser. Scientific Reports, 2019, 9, 18438.	1.6	12
35	Acousto-optically Q-switched diode side-pumped Er:YLF laser generating 50kW peak power in 70ns pulses. , 2019, , .		5
36	Thermoelectric-cooled terahertz quantum cascade lasers. Optics Express, 2019, 27, 20688.	1.7	33

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37	Integrated silicon nitride organic hybrid DFB laser with inkjet printed gain medium. Optics Express, 2019, 27, 29350.	1.7	8
38	Analysis of silicon nitride partial Euler waveguide bends. Optics Express, 2019, 27, 31394.	1.7	51
39	Material gain concentration quenching in organic dye-doped polymer thin films. Optical Materials Express, 2019, 9, 1208.	1.6	12
40	Heterogeneous THz quantum cascade lasers: Gain recovery dynamics study. , 2019, , .		0
41	Organic Solid-State Laser for Silicon Nitride Photonic Integrated Circuits. , 2019, , .		0
42	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. Nanophotonics, 2018, 7, 237-242.	2.9	49
43	Generating and Shaping Light in the THz Frequency Range. , 2018, , .		0
44	Gain dynamics in a heterogeneous terahertz quantum cascade laser. Applied Physics Letters, 2018, 113, .	1.5	25
45	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693.	3.2	35
46	High-energy diode side-pumped Er:LiYF ₄ laser. Applied Optics, 2018, 57, 1497.	0.9	28
47	Terahertz Physics of Semiconductor Heterostructures. , 2018, , 19-32.		0
48	Broadband Terahertz Detection With Zero-Bias Field-Effect Transistors Between 100 GHz and 11.8 THz With a Noise Equivalent Power of 250 pW/ $\sqrt{\text{Hz}}$ at 0.6 THz. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 465-471.	2.0	11
49	High-energy diode side-pumped Er:YLF laser generating 100 mJ @ 100 Hz. , 2018, , .		0
50	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2017, 4, 957-962.	3.2	22
51	Seeing laser scalpel: a novel monolithic high-power diode pumped Tm:YAG laser system at 2.02 μm with double-clad fiber combined OCT. , 2017, , .		0
52	Cooperative effects in an ensemble of planar meta-atoms. Applied Physics Letters, 2017, 110, 261101.	1.5	11
53	Acquisition of spectrally resolved multimode far-fields from terahertz quantum cascade lasers. , 2017, , .		0
54	Short pulse generation and high power emission of Quantum Cascade lasers. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Inverse bandstructure engineering of alternative barrier materials for InGaAs-based terahertz quantum cascade lasers. , 2017, , .		0
56	Terahertz quantum cascade lasers frequency combs: Wide bandwidth operation and dual-comb on a chip. , 2017, , .		0
57	Low effective electron mass InGaAs/InAlAs for high power terahertz quantum cascade lasers. , 2017, , .		0
58	Plasmonic disk patch resonators coupled to semiconductor heterostructures in the terahertz regime. , 2017, , .		0
59	Disk patch resonators for cavity quantum electrodynamics at the terahertz frequency. Optics Express, 2017, 25, 12311.	1.7	4
60	Interaction phenomena in a confined metamaterial system. , 2017, , .		0
61	Random lasers for broadband directional emission. Optica, 2016, 3, 1035.	4.8	86
62	Spectrally resolved far-fields of terahertz quantum cascade lasers. Optics Express, 2016, 24, 25462.	1.7	4
63	InAs based terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	1.5	40
64	Dispersion in a broadband terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	22
65	Pulse generation and spectral optimization of broadband terahertz quantum cascade lasers. , 2016, , .		1
66	THz quantum cascade amplifier for remote sensing applications. , 2016, , .		0
67	Resonance tuning with a system of coupled dipoles. , 2016, , .		0
68	Terahertz cavities for frequency manipulations. , 2016, , .		0
69	THz quantum cascade lasers with low effective mass active region. , 2016, , .		0
70	THz circular patch resonators loaded with semiconductor heterostructures. , 2016, , .		0
71	High brightness diode pumped Er:YAG laser system at 2.94 μm with nearly 1kW peak power. Proceedings of SPIE, 2016, , .	0.8	8
72	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. Optica, 2016, 3, 1087.	4.8	62

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73	High-power THz quantum cascade lasers. , 2015, , .		0
74	Improving the quality factor of the localized surface plasmon resonance. Optical Materials Express, 2015, 5, 2112.	1.6	32
75	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. Optics Express, 2015, 23, 3581.	1.7	3
76	Broadband terahertz amplification in a heterogeneous quantum cascade laser. Optics Express, 2015, 23, 3117.	1.7	13
77	From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 780-791.	1.9	6
78	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	1.7	45
79	Amplification of broadband terahertz pulses in a quantum cascade heterostructure. , 2015, , .		0
80	All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2014, 26, 1470-1473.	1.3	4
81	High power THz quantum cascade lasers based on novel materials and designs. , 2014, , .		0
82	Subwavelength micropillar array terahertz lasers. Optics Express, 2014, 22, 274.	1.7	62
83	Spectral gain profile of a multi-stack terahertz quantum cascade laser. Applied Physics Letters, 2014, 105, .	1.5	30
84	Reversing the pump dependence of a laser at an exceptional point. Nature Communications, 2014, 5, 4034.	5.8	411
85	Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269.	1.6	32
86	Towards Watt-Level Performance of Terahertz Quantum Cascade Lasers. , 2014, , .		0
87	Scaling of Micropillar Array Terahertz Lasers into the Subwavelength Regime. , 2014, , .		0
88	InGaAs/GaAsSb/InP terahertz quantum cascade lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 374-385.	1.2	11
89	Spectrally coded optical nanosectioning (SpecON) with biocompatible metal-dielectric-coated substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20069-20074.	3.3	12
90	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. Applied Physics Letters, 2013, 103, .	1.5	28

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91	Rotating polarization spectroscopy for single nano-antenna characterization. Optics Express, 2013, 21, 30903.	1.7	2
92	Fabrication and characterization of terahertz emitting GaAs/AlGaAs micropillar quantum cascade structures in a double metal waveguide. , 2013, , .		0
93	Simultaneous positive and negative photocurrent response in asymmetric quantum dot infrared photodetectors. Journal of Applied Physics, 2013, 113, 043721.	1.1	7
94	Role of geometry for strong coupling in active terahertz metamaterials. Physical Review B, 2013, 87, .	1.1	19
95	Influence of the facet type on the performance of terahertz quantum cascade lasers with double-metal waveguides. Applied Physics Letters, 2013, 102, 231121.	1.5	17
96	Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102.	1.5	26
97	Terahertz antireflection properties of sub-wavelength metallic double wire grid structures. , 2013, , .		0
98	Probing scattering mechanisms with symmetric quantum cascade lasers. Optics Express, 2013, 21, 7209.	1.7	35
99	Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges. Proceedings of SPIE, 2013, , .	0.8	3
100	Light-Matter Interaction in Terahertz Meta-atoms. , 2013, , .		0
101	Efficient population transfer in modulation doped single quantum wells by intense few-cycle terahertz pulses. New Journal of Physics, 2013, 15, 065014.	1.2	11
102	Characterising few and single nano-antennas with rotating polarisation. , 2013, , .		0
103	Exceptional points in coupled microdisk THz quantum cascade lasers. , 2013, , .		0
104	High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. Applied Physics Letters, 2013, 103, .	1.5	77
105	Multi-cavity terahertz quantum cascade lasers. , 2013, , .		0
106	Magnetic-field assisted performance of InGaAs/GaAsSb terahertz quantum cascade lasers. Applied Physics Letters, 2013, 103, .	1.5	11
107	Nonlinear intersubband dynamics in quantum wells driven by intense few-cycle terahertz pulses. , 2013, , .		0
108	Ultra-thin terahertz waveguides on periodic dielectric multilayers. , 2013, , .		1

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109	New concepts and geometries for graphene-based photodetectors. , 2012, , .		0
110	Intrinsic Speed Limit of Graphene-based Photodetectors. , 2012, , .		0
111	THz quantum cascade lasers with wafer bonded active regions. Optics Express, 2012, 20, 23832.	1.7	8
112	Dynamically phase-matched terahertz generation. Optics Letters, 2012, 37, 1047.	1.7	18
113	THz-driven nonlinear intersubband dynamics in quantum wells. Optics Express, 2012, 20, 23053.	1.7	11
114	Silver nanoisland enhanced Raman interaction in graphene. Applied Physics Letters, 2012, 101, 153113.	1.5	45
115	Fluorescence enhancements and spectral modifications near the cut-off frequency of plasmonic structure. Proceedings of SPIE, 2012, , .	0.8	0
116	Are Photons the Better Electrons?. Optik & Photonik, 2012, 7, 1-1.	0.3	0
117	Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 550-555.	2.0	3
118	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142â€‰%K. Applied Physics Letters, 2012, 101, 211117.	1.5	53
119	Experimental determination of effective parameters in a layered metamaterial. Physical Review B, 2012, 85, .	1.1	3
120	Exceptionally Narrow-Band Quantum Dot Infrared Photodetector. IEEE Journal of Quantum Electronics, 2012, 48, 1360-1366.	1.0	4
121	Color Coded Optical Nano-Sectioning (COCOS) Reveals Focal Adhesion Dynamics. Biophysical Journal, 2012, 102, 6a.	0.2	0
122	Upper band operation of active photonic crystal terahertz lasers. , 2012, , .		0
123	Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777.	4.5	753
124	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	1.1	30
125	Terahertz emission from a two-color plasma filament in a slot waveguide. Applied Physics Letters, 2012, 100, 091113.	1.5	1
126	Strong Terahertz Light-Matter Coupling Between Metamaterials and Intersubband Transitions. , 2012, , .		0

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127	Resonant Metamaterial Detectors Utilizing THz Quantum-Cascade Lasers. , 2012, , .		0
128	Terahertz Quantum Cascade Lasers with Symmetric Active Regions. , 2012, , .		0
129	Photonic bandstructure engineering of THz quantum-cascade lasers. Applied Physics Letters, 2011, 99, 201103.	1.5	2
130	Improved InGaAs/GaAsSb quantum cascade laser active region designs. Journal of Modern Optics, 2011, 58, 2015-2020.	0.6	4
131	Intrinsic Response Time of Graphene Photodetectors. Nano Letters, 2011, 11, 2804-2808.	4.5	244
132	Gain and losses in THz quantum cascade laser with metal-metal waveguide. Optics Express, 2011, 19, 733.	1.7	45
133	Terahertz meta-atoms coupled to a quantum well intersubband transition. Optics Express, 2011, 19, 13700.	1.7	48
134	Time- and Frequency-Domain Imaging of Dynamics in Terahertz Meta-Atoms. , 2011, , .		0
135	InGaAs/GaAsSb Terahertz Quantum Cascade Lasers. , 2011, , .		1
136	Prospects of Heterodyning in Electro-Optic Detector. , 2011, , .		0
137	Time-domain spectroscopy of mid-infrared quantum cascade lasers. Semiconductor Science and Technology, 2011, 26, 014020.	1.0	0
138	Nonorthodox heterodyne electro-optic detection for terahertz optical systems. Applied Physics Letters, 2011, 98, 161112.	1.5	2
139	Frequency and time mapping of terahertz meta-atoms. , 2011, , .		0
140	Progress on InGaAs/GaAsSb based terahertz quantum cascade lasers. , 2011, , .		0
141	Superconducting waveguides for terahertz quantum cascade lasers. , 2011, , .		0
142	New generation of the electro-optic terahertz detectors. , 2011, , .		0
143	Active photonic crystal terahertz laser operating in upper bands. , 2011, , .		0
144	THz time domain spectroscopy of coupled cavity THz quantum cascade lasers with metal-metal waveguide. , 2011, , .		0

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145	Metasurfaces coupled to terahertz intersubband transitions. , 2011, , .		0
146	Terahertz Active Photonic Crystals for Condensed Gas Sensing. Sensors, 2011, 11, 6003-6014.	2.1	34
147	Metal-Metal THz Quantum Cascade Laser Gain and Loss Investigated by THz Time Domain Spectroscopy. , 2011, , .		0
148	Active photonic crystal terahertz laser operating in higher bands. , 2011, , .		0
149	Microdisk THz quantum-cascade lasers with super-conducting cavities. Proceedings of SPIE, 2010, , .	0.8	0
150	Fast near-field imaging of spectrally broad sources using layered metallic structures. Proceedings of SPIE, 2010, , .	0.8	0
151	Surface-emitting terahertz quantum cascade ring lasers. Proceedings of SPIE, 2010, , .	0.8	0
152	Ring resonator-based surface emitting quantum cascade lasers. Proceedings of SPIE, 2010, , .	0.8	0
153	Two-photon spectral hole burning spectroscopy of InAs/GaAs quantum dots. Applied Physics Letters, 2010, 97, 011903.	1.5	1
154	Blueshift of intersubband magneto-optical transitions linked to void states of thin barriers in multiple quantum well structures. Physical Review B, 2010, 82, .	1.1	8
155	Guided Modes in Layered Semiconductor Terahertz Structures. IEEE Journal of Quantum Electronics, 2010, 46, 618-625.	1.0	12
156	THz time domain spectroscopy of surface electromagnetic waves. , 2010, , .		0
157	Ultrafast Spectroscopy As A Probe Of Light-Matter Interaction In A Midinfrared Quantum Cascade Laser. , 2010, , .		0
158	Electronic Structure Of InAs Quantum Dots In GaAs [∞] AlAs Superlattice. , 2010, , .		0
159	Electro-optic field and power detector of a new generation. , 2010, , .		0
160	Dual Sign Photocurrent in Quantum Dot Structures for Infrared Photodetection. ECS Transactions, 2010, 31, 207-211.	0.3	0
161	Terahertz spectroscopy of double metal quantum cascade structures. , 2010, , .		0
162	Terahertz resonant artificial interface layers. , 2010, , .		0

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163	Quasi phase-matched terahertz detector. Electronics Letters, 2010, 46, 788.	0.5	11
164	MBE Growth of GaAs Whiskers on Si Nanowires. , 2010, , .		0
165	Terahertz waveguide emitter with subwavelength confinement. Journal of Applied Physics, 2010, 107, 013110.	1.1	12
166	Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. Applied Physics Letters, 2010, 97, 261110.	1.5	45
167	THz photonic crystal quantum-cascade lasers: Frequency tuning during lasing operation. , 2010, , .		0
168	THz quantum-cascade lasers with superconducting waveguides. , 2010, , .		0
169	Terahertz quantum cascade laser in the InGaAs/GaAsSb material system. , 2010, , .		0
170	Gain photonic crystal terahertz quantum-cascade lasers. , 2010, , .		0
171	Tunability of THz Emission Originating from Sub-Cycle Electron Bursts in a Laser Induced Plasma. , 2010, , .		2
172	Photonic crystal mode terahertz lasers. Journal of Applied Physics, 2009, 105, 122404.	1.1	3
173	Modulated reflectance study of InAs quantum dot stacks embedded in GaAs/AlAs superlattice. Journal of Applied Physics, 2009, 106, .	1.1	9
174	Terahertz waveguide emitters for investigation of subwavelength structures. , 2009, , .		0
175	Analysis of sub-picosecond mid-infrared pulse propagation in a quantum cascade laser below and above threshold. , 2009, , .		0
176	Online tuning of active photonic crystal quantum-cascade lasers. , 2009, , .		0
177	Comparison between NEGF simulation and experimental results of Terahertz quantum cascade lasers. , 2009, , .		1
178	Far -infrared power detector with optical readout. , 2009, , .		0
179	INTRABAND AUGER EFFECT IN QUANTUM DOT STRUCTURES. International Journal of Modern Physics B, 2009, 23, 2872-2878.	1.0	0
180	Superposition of Positive and Negative Contributions to the Photocurrent Spectrum of InAs/InAlGaAs/InP Quantum Dot Infrared Photodetectors. ECS Transactions, 2009, 23, 521-526.	0.3	0

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181	Atomic force microscopy based room temperature photocurrent-spectroscopy of single subsurface InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 793-796.	0.8	2
182	Coherent control of ground state excitons in the nonlinear regime within an ensemble of self-assembled InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 876-878.	0.8	3
183	Optical study of InAs quantum dot stacks embedded in GaAs/AlAs superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2710-2712.	0.8	1
184	InGaAs/InGaAlAs/InAs/InP very selective quantum dot infrared photodetector for 12 Åµm. , , .		0
185	Intersubband gain-induced dispersion. Optics Letters, 2009, 34, 208.	1.7	8
186	Excitation of terahertz surface plasmon polaritons on etched groove gratings. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 554.	0.9	20
187	Polarization of terahertz radiation from laser generated plasma filaments. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2016.	0.9	35
188	Active photonic crystal terahertz laser. Optics Express, 2009, 17, 941.	1.7	90
189	Electrically controllable photonic molecule laser. Optics Express, 2009, 17, 20321.	1.7	16
190	Intraband Auger effect in InAs/InGaAlAs/InP quantum dot structures. Journal of Physics: Conference Series, 2009, 167, 012001.	0.3	0
191	Polarization of THz radiation from laser generated plasma filaments. , 2009, , .		0
192	Vertically emitting terahertz quantum cascade ring lasers. Applied Physics Letters, 2009, 95, .	1.5	47
193	Terahertz Waveguide Emitters with Subwavelength Confinement. , 2009, , .		0
194	Monolithic photonic crystal quantum-cascade laser. Journal of Physics: Conference Series, 2009, 193, 012061.	0.3	0
195	Quasi-phase matched electro-optic terahertz detector. , 2009, , .		0
196	Femtosecond Dynamics of a Midinfrared Quantum Cascade Laser. , 2009, , .		0
197	Polarization of THz Radiation from Laser Generated Plasma Filaments. , 2009, , .		0
198	Doping dependence of LO-phonon depletion scheme THz quantum-cascade lasers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 152-155.	1.7	13

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199	Acoustic phonon-assisted damping of Rabi oscillations in InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2013-2015.	1.3	1
200	Dynamical frequency pulling of degenerated and nondegenerated modes in small mode volume whispering-gallery terahertz quantum-cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1840-1843.	1.3	1
201	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 307-314.	1.9	2
202	Intraband Auger effect in InAs/InGaAlAs/InP quantum dot structures. Applied Physics Letters, 2008, 93, 052103.	1.5	9
203	Ultrafast phase-resolved pump-probe measurements on a quantum cascade laser. Applied Physics Letters, 2008, 93, 151106.	1.5	26
204	Numerical sampling rules for paraxial regime pulse diffraction calculations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2299.	0.8	2
205	Terahertz quantum-cascade lasers: Time domain spectroscopy and micro cavity effects. , 2008, , .		0
206	Quantum-cascade photonic crystal laser. , 2008, , .		0
207	THz ellipsometry in theory and experiment. , 2008, , .		0
208	Evidence for an Intraband Auger Effect in InAs/InGaAlAs/InP Quantum Dot Structures. ECS Transactions, 2008, 14, 467-471.	0.3	0
209	Ultrafast resonant terahertz response of excitons in semiconductor quantum dots. Physical Review B, 2008, 77, .	1.1	10
210	Ultrafast probing of light-matter interaction in a midinfrared quantum cascade laser. Applied Physics Letters, 2008, 93, 091105.	1.5	18
211	Terahertz subwavelength waveguide emitters. , 2008, , .		0
212	Growth of GaAs whiskers by MBE on LPCVD Si(111) nanowire trunks. , 2008, , .		0
213	Terahertz surface plasmon on chirped groove grating. , 2008, , .		0
214	Terahertz photonic crystals. , 2008, , .		0
215	Ultrafast probing of the complex refractive index in an active mid infrared quantum cascade laser. , 2008, , .		0
216	Advances in fiber delivery of ultrashort pulses at 800 nm. , 2008, , .		0

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217	Terahertz semiconductor gain medium: Static properties and dynamic behavior. , 2008, , .		0
218	Femtosecond Spectral Hole Burning Spectroscopy as a Probe of Exciton Dynamics in Quantum Dots. Acta Physica Polonica A, 2008, 113, 777-782.	0.2	3
219	Energy Spectrum of InAs Quantum Dots in GaAs/AlAs Superlattices. Acta Physica Polonica A, 2008, 113, 975-978.	0.2	5
220	Ultrawideband Mid-Infrared Spectroscopy of Semiconductor Nanostructures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 599-621.	0.2	0
221	Controlled coupling of terahertz lasing modes in microdisk photonic molecules. , 2008, , .		0
222	Gain and losses in terahertz quantum cascade laser. , 2007, , .		0
223	Intraband InAs/InAlGaAs/InP Quantum Dot Detectors for the MIR. , 2007, , .		1
224	Limits Of Strong Mode Confinement In Microdisk Terahertz Quantum-Cascade Lasers. , 2007, , .		0
225	Effects of doping concentration on terahertz quantum-cascade lasers. , 2007, , .		0
226	Damping of Rabi Oscillations in InAs Quantum Dots due to Acoustic Phonons. , 2007, , .		0
227	Time resolved spectroscopy of dynamics in mid infrared quantum cascade lasers below and above threshold. , 2007, , .		0
228	Design, Fabrication and Performance of Microdevices for Infrared Detection Applications. ECS Transactions, 2007, 4, 35-41.	0.3	1
229	Effects of doping on terahertz quantum-cascade lasers. , 2007, , .		0
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