

Karl Unterrainer

List of Publications by Year in descending order

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433
papers

7,169
citations

66343

42
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71685

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, .	3.3	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.	9.3	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.	3.4	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.	3.3	6
13	Landau level laser. Nature Photonics, 2021, 15, 875-883.	31.4	4
14	All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530.	12.8	19
15	Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	0
16	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. Physical Review Applied, 2020, 14, .	3.8	7
17	Resonant tunneling diodes strongly coupled to the cavity field. Applied Physics Letters, 2020, 116, .	3.3	7
18	A Coupled-Spiral Silicon Nitride Organic-Hybrid Laser. IEEE Photonics Technology Letters, 2020, 32, 561-564.	2.5	2

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19	Terahertz optical machine learning for object recognition. APL Photonics, 2020, 5, .	5.7	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.	1.8	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.	2.0	4
27	Color switching of a terahertz quantum cascade laser. Applied Physics Letters, 2019, 114, 191104.	3.3	8
28	Scattering strength dependence of terahertz random lasers. Journal of Applied Physics, 2019, 125, 151611.	2.5	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.	3.3	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.	3.4	33

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37	Integrated silicon nitride organic hybrid DFB laser with inkjet printed gain medium. Optics Express, 2019, 27, 29350.	3.4	8
38	Analysis of silicon nitride partial Euler waveguide bends. Optics Express, 2019, 27, 31394.	3.4	51
39	Material gain concentration quenching in organic dye-doped polymer thin films. Optical Materials Express, 2019, 9, 1208.	3.0	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.	6.0	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, .	3.3	25
45	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693.	6.6	35
46	High-energy diode side-pumped Er:LiYF ₄ laser. Applied Optics, 2018, 57, 1497.	1.8	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.	3.1	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.	6.6	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.	3.3	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.	3.4	4
60	Interaction phenomena in a confined metamaterial system. , 2017, , .		0
61	Random lasers for broadband directional emission. Optica, 2016, 3, 1035.	9.3	86
62	Spectrally resolved far-fields of terahertz quantum cascade lasers. Optics Express, 2016, 24, 25462.	3.4	4
63	InAs based terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	3.3	40
64	Dispersion in a broadband terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	3.3	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.	9.3	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.	3.0	32
75	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. Optics Express, 2015, 23, 3581.	3.4	3
76	Broadband terahertz amplification in a heterogeneous quantum cascade laser. Optics Express, 2015, 23, 3117.	3.4	13
77	From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 780-791.	2.9	6
78	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	3.4	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.	2.5	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.	3.4	62
83	Spectral gain profile of a multi-stack terahertz quantum cascade laser. Applied Physics Letters, 2014, 105, .	3.3	30
84	Reversing the pump dependence of a laser at an exceptional point. Nature Communications, 2014, 5, 4034.	12.8	411
85	Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269.	3.3	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.	2.2	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.	7.1	12
90	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. Applied Physics Letters, 2013, 103, .	3.3	28

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91	Rotating polarization spectroscopy for single nano-antenna characterization. Optics Express, 2013, 21, 30903.	3.4	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.	2.5	7
94	Role of geometry for strong coupling in active terahertz metamaterials. Physical Review B, 2013, 87, .	3.2	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.	3.3	17
96	Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102.	3.3	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.	3.4	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.	2.9	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, .	3.3	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, .	3.3	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.	3.4	8
112	Dynamically phase-matched terahertz generation. Optics Letters, 2012, 37, 1047.	3.3	18
113	THz-driven nonlinear intersubband dynamics in quantum wells. Optics Express, 2012, 20, 23053.	3.4	11
114	Silver nanoisland enhanced Raman interaction in graphene. Applied Physics Letters, 2012, 101, 153113.	3.3	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.	0.2	0
117	Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 550-555.	3.1	3
118	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142â€‰%K. Applied Physics Letters, 2012, 101, 211117.	3.3	53
119	Experimental determination of effective parameters in a layered metamaterial. Physical Review B, 2012, 85, .	3.2	3
120	Exceptionally Narrow-Band Quantum Dot Infrared Photodetector. IEEE Journal of Quantum Electronics, 2012, 48, 1360-1366.	1.9	4
121	Color Coded Optical Nano-Sectioning (COCOS) Reveals Focal Adhesion Dynamics. Biophysical Journal, 2012, 102, 6a.	0.5	0
122	Upper band operation of active photonic crystal terahertz lasers. , 2012, , .		0
123	Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777.	9.1	753
124	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	3.2	30
125	Terahertz emission from a two-color plasma filament in a slot waveguide. Applied Physics Letters, 2012, 100, 091113.	3.3	1
126	Strong Terahertz Light-Matter Coupling Between Metamaterials and Intersubband Transitions. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
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.	3.3	2
130	Improved InGaAs/GaAsSb quantum cascade laser active region designs. Journal of Modern Optics, 2011, 58, 2015-2020.	1.3	4
131	Intrinsic Response Time of Graphene Photodetectors. Nano Letters, 2011, 11, 2804-2808.	9.1	244
132	Gain and losses in THz quantum cascade laser with metal-metal waveguide. Optics Express, 2011, 19, 733.	3.4	45
133	Terahertz meta-atoms coupled to a quantum well intersubband transition. Optics Express, 2011, 19, 13700.	3.4	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.	2.0	0
138	Nonorthodox heterodyne electro-optic detection for terahertz optical systems. Applied Physics Letters, 2011, 98, 161112.	3.3	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

#	ARTICLE	IF	CITATIONS
145	Metasurfaces coupled to terahertz intersubband transitions. , 2011, , .		0
146	Terahertz Active Photonic Crystals for Condensed Gas Sensing. Sensors, 2011, 11, 6003-6014.	3.8	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.	3.3	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, .	3.2	8
155	Guided Modes in Layered Semiconductor Terahertz Structures. IEEE Journal of Quantum Electronics, 2010, 46, 618-625.	1.9	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.	0.5	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.	1.0	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.	2.5	12
166	Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. Applied Physics Letters, 2010, 97, 261110.	3.3	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.	2.5	3
173	Modulated reflectance study of InAs quantum dot stacks embedded in GaAs/AlAs superlattice. Journal of Applied Physics, 2009, 106, .	2.5	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.	2.0	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.	0.5	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. , 2009, , .		0
185	Intersubband gain-induced dispersion. Optics Letters, 2009, 34, 208.	3.3	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.	2.1	20
187	Polarization of terahertz radiation from laser generated plasma filaments. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2016.	2.1	35
188	Active photonic crystal terahertz laser. Optics Express, 2009, 17, 941.	3.4	90
189	Electrically controllable photonic molecule laser. Optics Express, 2009, 17, 20321.	3.4	16
190	Intraband Auger effect in InAs/InGaAlAs/InP quantum dot structures. Journal of Physics: Conference Series, 2009, 167, 012001.	0.4	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, .	3.3	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.	0.4	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.	3.5	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.	2.7	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.	2.7	1
201	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 307-314.	2.9	2
202	Intraband Auger effect in InAs/InGaAlAs/InP quantum dot structures. Applied Physics Letters, 2008, 93, 052103.	3.3	9
203	Ultrafast phase-resolved pump-probe measurements on a quantum cascade laser. Applied Physics Letters, 2008, 93, 151106.	3.3	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.	1.5	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.	0.5	0
209	Ultrafast resonant terahertz response of excitons in semiconductor quantum dots. Physical Review B, 2008, 77, .	3.2	10
210	Ultrafast probing of light-matter interaction in a midinfrared quantum cascade laser. Applied Physics Letters, 2008, 93, 091105.	3.3	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.	0.5	3
219	Energy Spectrum of InAs Quantum Dots in GaAs/AlAs Superlattices. Acta Physica Polonica A, 2008, 113, 975-978.	0.5	5
220	Ultrawideband Mid-Infrared Spectroscopy of Semiconductor Nanostructures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 599-621.	0.3	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.	0.5	1
229	Effects of doping on terahertz quantum-cascade lasers. , 2007, , .		0
230	THz time-domain spectroscopy of THz quantum cascade lasers. , 2007, , .		0
231	Ultra-compact low threshold whispering-gallery terahertz quantum-cascade lasers. , 2007, , .		0
232	The Influence of Doping on the Performance of Terahertz Quantum-Cascade-Lasers. , 2007, , WB5.		1
233	Influence of doping on the performance of terahertz quantum-cascade lasers. Applied Physics Letters, 2007, 90, 101107.	3.3	59
234	Limits of strong mode confinement in microdisk terahertz quantum-cascade lasers. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
235	Terahertz time-domain spectroscopy of surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
236	Two-electron states bound to interface defects in quantum cascade lasers subjected to a strong magnetic field. Physical Review B, 2007, 76, .	3.2	1
237	Quantum dot structures grown on Al containing quaternary material for infrared photodetection beyond 10 ¹¹ /4m. Applied Physics Letters, 2007, 90, 173510.	3.3	12
238	Longitudinal spatial hole burning in terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, 161108.	3.3	23
239	Thermally activated absorption in terahertz semiconductor heterostructure lasers. , 2007, , .		0
240	THz sensing of doping concentrations in epitaxial semi-conductors and 2-D electron gases: theory and experiment. , 2007, , .		0
241	Terahertz surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
242	Photonic crystals with a complete bandgap for TM-modes used as resonators for terahertz quantum-cascade lasers. , 2007, , .		0
243	Acoustic phonon damping of Rabi oscillations in In(Ga)As quantum dots. , 2007, , .		0
244	Polarization Dependence of Photocurrent in InAs/InGaAs/InP Quantum-Dot Infrared Photodetectors. ECS Transactions, 2007, 4, 345-352.	0.5	0
245	Optimization of MBE Growth Parameters for GaAs-based THz Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	4
246	Fast numerical algorithm for ultrashort THz pulse diffraction. Proceedings of SPIE, 2007, , .	0.8	1
247	Propagation of surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
248	Investigation of pulsed image-plane distributions with applications in time domain THz spectroscopy. , 2007, , .		0
249	Metallic wave-impedance matching layers for broadband terahertz optical systems. Optics Express, 2007, 15, 6552.	3.4	85
250	Terahertz photonic crystal resonators in double-metal waveguides. Optics Express, 2007, 15, 12418.	3.4	72
251	Subwavelength Microdisk and Microring Terahertz Quantum-Cascade Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 687-697.	1.9	34
252	Polarization Dependence of Photocurrent in Quantum-Dot Infrared Photodetectors. AIP Conference Proceedings, 2007, , .	0.4	1

#	ARTICLE	IF	CITATIONS
253	From few-cycle THz pulses to terahertz quantum-cascade lasers. , 2007, , .		0
254	"Single-Mode" Whispering-Gallery Terahertz Quantum-Cascade Lasers with Controlled Degeneracy. , 2007, , .		0
255	Terahertz quantum-cascade laser dynamics in time-domain. AIP Conference Proceedings, 2007, , .	0.4	0
256	Terahertz optical activity of sucrose single-crystals. Vibrational Spectroscopy, 2007, 43, 324-329.	2.2	31
257	Polarization dependence of intraband transitions in QDIPs. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 304-306.	0.8	0
258	Phase-resolved measurements of stimulated emission in a laser. Nature, 2007, 449, 698-701.	27.8	171
259	High-quality MBE growth of Al _{0.5} Ga _{0.5} As-based THz quantum cascade lasers. Open Physics, 2007, 5, .	1.7	3
260	Theoretical aspects of time-domain spectroscopy of semiconductor terahertz gain medium. AIP Conference Proceedings, 2007, , .	0.4	3
261	Dual-Mode Microcavity THz Quantum-Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	0
262	Design limitations in terahertz quantum cascade lasers caused by thermally activated absorption features. , 2007, , .		0
263	Optical Properties Of IR Quantum Dot Detectors With Miniband Tunnel Extraction. AIP Conference Proceedings, 2007, , .	0.4	0
264	Ultrafast Spectral Hole Burning Spectroscopy of Exciton Spin Relaxation in Quantum Dots. AIP Conference Proceedings, 2007, , .	0.4	0
265	Single InAs/GaAs quantum dots: Photocurrent and cross-sectional AFM analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 183-186.	2.7	9
266	Microcavity THz quantum cascade laser. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 316-319.	2.7	7
267	Ballistic transport in semiconductor nanostructures: From quasi-classical oscillations to novel THz-emitters. Pramana - Journal of Physics, 2006, 67, 199-205.	1.8	0
268	Ultrafast spectral hole burning spectroscopy of exciton spin flip processes in InAs ^δ -GaAs quantum dots. Applied Physics Letters, 2006, 88, 192105.	3.3	11
269	Exciton spin relaxation in semiconductor quantum dots. , 2006, , .		0
270	Time-domain spectroscopy of THz quantum cascade lasers: Theoretical and experimental aspects. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
271	Sub-wavelength terahertz quantum-cascade laser resonators. , 2006, , .		2
272	Coherent probing of quantum cascade laser emission by terahertz time-domain spectroscopy. , 2006, , .		0
273	THz collective oscillations of ballistic electrons in wide potential wells: Bridging classical transport with quantum dynamics. Europhysics Letters, 2005, 70, 534-540.	2.0	4
274	Photocurrent spectroscopy of single InAs/GaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3114-3117.	0.8	8
275	Microcavity terahertz quantum-cascade laser. , 2005, 6010, 36.		1
276	Tracing deeply buried InAs•GaAs quantum dots using atomic force microscopy and wet chemical etching. Applied Physics Letters, 2005, 86, 063111.	3.3	5
277	Terahertz microcavity quantum-cascade lasers. Applied Physics Letters, 2005, 87, 211112.	3.3	51
278	Transient spectral hole burning spectroscopy of exciton spin flip processes in In(Ga)As quantum dots. , 2005, , .		0
279	Intraband transitions in quantum dot•superlattice heterostructures. Physical Review B, 2005, 72, .	3.2	39
280	Time and Frequency Resolved THz Spectroscopy of Micro- and Nano-Systems. Acta Physica Polonica A, 2005, 107, 92-98.	0.5	2
281	Enhanced emission and detection techniques for Terahertz time-domain spectroscopy. , 2005, , .		0
282	TERAHERTZ TECHNOLOGY Terahertz Physics of Semiconductor Heterostructures. , 2005, , 168-176.		0
283	Finite-Difference Time-Domain Simulation of Mid- and Far-Infrared Quantum Cascade Lasers. Acta Physica Polonica A, 2005, 107, 179-183.	0.5	4
284	Magnetic field effects in terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2004, 19, S348-S350.	2.0	4
285	Potential for detection of explosive and biological hazards with electronic terahertz systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 337-349.	3.4	58
286	Terahertz quantum cascade lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 215-231.	3.4	16
287	Intraband relaxation of photoexcited electrons in GaAs/AlGaAs quantum wells and InAs/GaAs self-assembled quantum dots. Semiconductor Science and Technology, 2004, 19, S287-S289.	2.0	4
288	Exotic transport regime in GaAs: absence of intervalley scattering leading to quasi-ballistic, real-space THz oscillations. Semiconductor Science and Technology, 2004, 19, S195-S198.	2.0	5

#	ARTICLE	IF	CITATIONS
289	Pulse-induced quantum interference of intersubband transitions in coupled quantum wells. Applied Physics Letters, 2004, 84, 64-66.	3.3	33
290	Terahertz sources and detectors and their application to biological sensing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 365-377.	3.4	82
291	New Generation of Photoconductive Few-Cycle Terahertz Emitters. Springer Series in Optical Sciences, 2004, , 405-410.	0.7	0
292	Optically induced intraband electron transfer in self-assembled InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 434-437.	0.8	1
293	Intersublevel dynamics of semiconductor nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 271-279.	2.7	2
294	Passive millimetre-wave imaging and how it differs from terahertz imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 379-393.	3.4	77
295	Influence of carrier-carrier interaction on time-dependent intersubband absorption in a semiconductor quantum well. Physical Review B, 2004, 70, .	3.2	63
296	Imaging with a Terahertz quantum cascade laser. Optics Express, 2004, 12, 1879.	3.4	145
297	Coherent vs. incoherent charge transport in semiconductor quantum cascade structures. , 2004, 5352, 333.		0
298	Propagation of terahertz pulses in random media. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 301-314.	3.4	12
299	Towards terahertz near-field microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 315-321.	3.4	8
300	Few-cycle terahertz generation and spectroscopy of nanostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 251-262.	3.4	7
301	High-performance terahertz electro-optic detector. Electronics Letters, 2004, 40, 763.	1.0	37
302	Ultrafast intraband dynamics in quantum dots. , 2004, , .		0
303	Energy level engineering in InAs quantum dot stacks embedded in AlAs/GaAs superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 42-45.	2.7	6
304	Electroluminescence of a quantum dot cascade structure. Applied Physics Letters, 2003, 82, 3862-3864.	3.3	34
305	Terahertz quantum cascade lasers in a magnetic field. Applied Physics Letters, 2003, 83, 3873-3875.	3.3	26
306	Ultrafast intraband spectroscopy of electron capture and relaxation in InAs/GaAs quantum dots. Applied Physics Letters, 2003, 83, 3572-3574.	3.3	99

#	ARTICLE	IF	CITATIONS
307	Compact THz-source based on femtosecond Ti:Sapphire laser and intracavity photoconductive emitter. , 2003, 4978, 50.		0
308	Terahertz emitter with integrated semiconductor Bragg mirror. Electronics Letters, 2003, 39, 460.	1.0	15
309	Population dynamics in quantum structures. Springer Series in Chemical Physics, 2003, , 392-394.	0.2	0
310	Surface-modified GaAs terahertz plasmon emitter. Applied Physics Letters, 2002, 81, 871-873.	3.3	18
311	Intersubband Transport in Quantum Wells in Strong Magnetic Fields Mediated by Single- and Two-Electron Scattering. Physical Review Letters, 2002, 88, 226803.	7.8	27
312	Long wavelength (15 and 23 μm) GaAs/AlGaAs quantum cascade lasers. Applied Physics Letters, 2002, 80, 3691-3693.	3.3	30
313	Few-cycle THz generation for imaging and tomography applications. Physics in Medicine and Biology, 2002, 47, 3691-3697.	3.0	7
314	Terahertz emission from magnetoplasma oscillations in semiconductors. , 2002, 4643, 12.		2
315	Quantum cascade lasers with double metal-semiconductor waveguide resonators. Applied Physics Letters, 2002, 80, 3060-3062.	3.3	104
316	Voltage-controlled intracavity terahertz generator for self-starting Ti:sapphire lasers. Optics Letters, 2002, 27, 1941.	3.3	9
317	Quantum cascade lasers and metal waveguides at $\lambda > 20 \mu\text{m}$. , 2002, , .		0
318	Ultrafast Coherent Electron Transport in Semiconductor Quantum Cascade Structures. Physical Review Letters, 2002, 89, 047402.	7.8	58
319	Energy level engineering in InAs quantum dot nanostructures. Applied Physics Letters, 2002, 81, 2079-2081.	3.3	34
320	Direct measurement of intersubband dynamics. Physica B: Condensed Matter, 2002, 314, 259-262.	2.7	0
321	Photoconductive response of InAs/GaAs quantum dot stacks. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 190-193.	2.7	9
322	Terahertz quantum cascade emitters based on AlAs/GaAs. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 900-903.	2.7	5
323	Intersubband relaxation dynamics in semiconductor quantum structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 908-911.	2.7	4
324	Electrical field mapping in InGaP HEMTs and GaAs terahertz emitters using backside infrared OBIC technique.. Microelectronics Reliability, 2002, 42, 1673-1677.	1.7	0

#	ARTICLE	IF	CITATIONS
325	Quantum cascade lasers: ultrahigh-speed operation, optical wireless communication, narrow linewidth, and far-infrared emission. IEEE Journal of Quantum Electronics, 2002, 38, 511-532.	1.9	265
326	Population dynamics in quantum structures. , 2002, , .		0
327	Terahertz emission from GaAs and InAs in a magnetic field. Physical Review B, 2001, 64, .	3.2	121
328	Monitoring the ultrafast electric field change at a mid-infrared plasma Bragg mirror. Optics Letters, 2001, 26, 1618.	3.3	1
329	Time-resolved THz spectroscopy of proton-bombarded InP. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1369.	2.1	14
330	<title>Gas absorption spectroscopy using GaAs/AlGaAs quantum cascade lasers and a hollow waveguide absorption cell</title>. , 2001, , .		1
331	Few-cycle THz spectroscopy of semiconductor quantum structures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 76-83.	2.7	2
332	Resonant Tunneling Mediated by Resonant Emission of Intersubband Plasmons. Physical Review Letters, 2001, 86, 2850-2853.	7.8	6
333	Intersubband absorption dynamics in coupled quantum wells. Applied Physics Letters, 2001, 79, 2755-2757.	3.3	32
334	Coherent THz emission from optically pumped intersubband plasmons in parabolic quantum wells. Springer Series in Chemical Physics, 2001, , 203-205.	0.2	0
335	Few-Cycle THz Spectroscopy of Semiconductor Quantum Structures. Springer Proceedings in Physics, 2001, , 579-582.	0.2	0
336	Excitation Dynamics beyond the Slowly-Varying Envelope Approximation. Springer Series in Chemical Physics, 2001, , 235-237.	0.2	0
337	Terahertz emission from semiconductor nanostructures. , 2001, , 115-124.		0
338	Few-cycle THz spectroscopy of nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 693-697.	2.7	1
339	Intersubband and interminiband GaAs/AlGaAs quantum cascade lasers at. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 709-712.	2.7	1
340	GaAs/AlGaAs microresonator quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 29-32.	2.7	0
341	GaAs/AlGaAs quantum cascade laser â€œ a source for gas absorption spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 37-39.	2.7	13
342	Terahertz phase modulator. Electronics Letters, 2000, 36, 1156.	1.0	121

#	ARTICLE	IF	CITATIONS
343	The lower branch of plasmon-phonon coupled modes. Semiconductor Science and Technology, 2000, 15, 813-817.	2.0	3
344	Magneto-optical Terahertz emission from plasmons in parabolic quantum wells. Semiconductor Science and Technology, 2000, 15, 315-321.	2.0	1
345	Terahertz quantum cascade structures: Intra- versus interwell transition. Applied Physics Letters, 2000, 77, 1928-1930.	3.3	43
346	Quantum cascade lasers with monolithic airâ€“semiconductor Bragg reflectors. Applied Physics Letters, 2000, 77, 1241-1243.	3.3	24
347	Magnetic-field-enhanced quantum-cascade emission. Applied Physics Letters, 2000, 76, 19-21.	3.3	54
348	Coherent terahertz emission from optically pumped intersubband plasmons in parabolic quantum wells. Applied Physics Letters, 2000, 76, 3501-3503.	3.3	22
349	Self-aligned coupled cavity GaAs/AlGaAs midinfrared quantum-cascade laser. Applied Physics Letters, 2000, 77, 1077-1079.	3.3	29
350	Spectroscopy in the gas phase with GaAs/AlGaAs quantum-cascade lasers. Applied Optics, 2000, 39, 6926.	2.1	33
351	Sampling a terahertz dipole transition with subcycle time resolution. Optics Letters, 2000, 25, 272.	3.3	35
352	Improved performance of GaAs-AlGaAs superlattice quantum cascade lasers beyond $\lambda/4$. IEEE Photonics Technology Letters, 2000, 12, 1144-1146.	2.5	4
353	Excitation Dynamics beyond the Slowly-Varying Envelope Approximation. , 2000, , .		0
354	Coherent THz emission from optically pumped intersubband plasmons in parabolic quantum wells. , 2000, , .		0
355	Plasmon-based terahertz laser without population inversion. , 1999, , .		1
356	Temperature dependence of far-infrared electroluminescence in parabolic quantum wells. Applied Physics Letters, 1999, 74, 3158-3160.	3.3	32
357	Towards stimulated generation of coherent plasmons in nanostructures. Journal of Applied Physics, 1999, 85, 3708-3712.	2.5	6
358	Scattering and Bloch oscillation in semiconductor superlattices. Physica B: Condensed Matter, 1999, 272, 175-179.	2.7	1
359	Terahertz-electroluminescence in a quantum cascade structure. Physica B: Condensed Matter, 1999, 272, 216-218.	2.7	33
360	Coherent THz plasmons in GaAs/AlGaAs superlattices. Physica B: Condensed Matter, 1999, 272, 375-377.	2.7	7

#	ARTICLE	IF	CITATIONS
361	GaAs/AlGaAs quantum cascade intersubband and interminiband emitter. Journal of Crystal Growth, 1999, 201-202, 919-922.	1.5	3
362	GaAs/AlGaAs-based microcylinder lasers emitting at $10\ \mu\text{m}$. Applied Physics Letters, 1999, 75, 1045-1047.	3.3	36
363	GaAs/AlGaAs superlattice quantum cascade lasers at $13\ \mu\text{m}$. Applied Physics Letters, 1999, 75, 1345-1347.	3.3	74
364	Plasmon-based terahertz emission from quantum well structures. Applied Physics Letters, 1999, 75, 1685-1687.	3.3	23
365	Chapter 3 Photon-Assisted Tunneling in Semiconductor Quantum Structures. Semiconductors and Semimetals, 1999, 66, 127-186.	0.7	3
366	GaAs AlGaAs intersubband MIR lasers. , 1999, 3828, 32.		0
367	Intersubband scattering of cold electrons in a coupled quantum well with subband spacing below $\hbar\omega_{\text{LO}}$. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 195-199.	2.7	5
368	Ballistic electron transport in vertical biased superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 282-286.	2.7	12
369	Ballistic and dissipative electron transport in semiconductor superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 3, 152-157.	2.7	1
370	Coherent plasmons in doped GaAs. Physical Review B, 1998, 58, 4553-4559.	3.2	101
371	Time-domain measurement of intersubband oscillations in a quantum well. Applied Physics Letters, 1998, 72, 644-646.	3.3	78
372	Transition Between Coherent and Incoherent Electron Transport in GaAs/GaAlAs Superlattices. Physical Review Letters, 1998, 81, 3495-3498.	7.8	68
373	THz Time-Domain Spectroscopy of Intersubband Plasmons. , 1998, , 173-180.		0
374	Driving Intersubband Transitions With THz Pulses. Springer Series in Chemical Physics, 1998, , 208-210.	0.2	0
375	Electrically Excited Terahertz Emission from Parabolic Quantum Wells. , 1998, , 181-186.		0
376	Ballistic electron spectroscopy of vertical superlattice minibands. Applied Physics Letters, 1997, 70, 649-651.	3.3	38
377	GaAs/AlGaAs Intersubband Mid-Infrared Emitter. Materials Research Society Symposia Proceedings, 1997, 484, 165.	0.1	3
378	Characterization of GaAs/AlGaAs mid-infrared emitters. , 1997, , .		0

#	ARTICLE	IF	CITATIONS
379	Few-Cycle THz Emission from Cold Plasma Oscillations. <i>Physical Review Letters</i> , 1997, 79, 3038-3041.	7.8	191
380	Quenching of Miniband Transport in Biased Undoped Superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 393-396.	1.5	9
381	Coherent Few-Cycle THz Emission from Plasmons in Bulk GaAs. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 67-69.	1.5	1
382	Hot electron spectroscopy of undoped GaAs/GaAlAs superlattices. <i>Superlattices and Microstructures</i> , 1997, 22, 143-148.	3.1	0
383	Nonlinear resonant optical rectification in a coupled quantum well. <i>Surface Science</i> , 1996, 361-362, 401-405.	1.9	1
384	Inverse Bloch Oscillator: Strong Terahertz-Photocurrent Resonances at the Bloch Frequency. <i>Physical Review Letters</i> , 1996, 76, 2973-2976.	7.8	183
385	Electric and magnetic dipole two-photon absorption in semiconductors. <i>Physical Review B</i> , 1996, 54, 7917-7920.	3.2	10
386	Far-infrared emission from parabolically graded quantum wells. <i>Applied Physics Letters</i> , 1996, 69, 3522-3524.	3.3	32
387	Far-infrared pump-probe measurements of the intersubband lifetime in an AlGaAs/GaAs coupled quantum well. <i>Applied Physics Letters</i> , 1996, 68, 3019-3021.	3.3	37
388	Intersubband dynamics of asymmetric quantum wells studied by THz 'optical rectification'. <i>Semiconductor Science and Technology</i> , 1996, 11, 1591-1595.	2.0	4
389	Third Harmonic Generation in a GaAs/AlGaAs Superlattice in the Bloch Oscillator Regime. , 1996, , 161-163.		2
390	Strong Terahertz-Photocurrent Resonances in Miniband Superlattices at the Bloch Frequency. , 1996, , 135-138.		0
391	Optical rectification as a probe of quantum dynamics in a heterostructure. <i>Superlattices and Microstructures</i> , 1995, 17, 159-162.	3.1	3
392	Materials science in the far-IR with electrostatic based FELs. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 358, 536-539.	1.6	9
393	Temperature and Intensity Dependence of Intersubband Relaxation Rates from Photovoltage and Absorption. <i>Physical Review Letters</i> , 1995, 74, 2682-2685.	7.8	79
394	Band-warping-induced transverse population inversion of hot heavy holes in germanium at high electric fields. <i>Physical Review B</i> , 1995, 52, 10701-10704.	3.2	0
395	Influence of impurity absorption on germanium hot-hole laser spectra. <i>Semiconductor Science and Technology</i> , 1994, 9, 638-640.	2.0	18
396	Excite-probe determination of the intersubband lifetime in wide GaAs/AlGaAs quantum wells using a far-infrared free-electron laser. <i>Semiconductor Science and Technology</i> , 1994, 9, 1554-1557.	2.0	47

#	ARTICLE	IF	CITATIONS
397	Effect of valence-band anisotropy and nonparabolicity on total scattering rates for holes in nonpolar semiconductors. <i>Physical Review B</i> , 1994, 49, 13991-13994.	3.2	6
398	Observation of two emission lines in the p-type-Ge cyclotron resonance laser. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 2778-2780.	1.9	0
399	Crossed-field hot-hole cyclotron resonance in p-Ge: nonparabolic and quantum effects. <i>Semiconductor Science and Technology</i> , 1993, 8, S313-S316.	2.0	2
400	Direct evidence for the role of streaming motion in the hot-hole p-Ge laser. <i>Semiconductor Science and Technology</i> , 1993, 8, 2053-2057.	2.0	3
401	Influence of impurities on broadband p-type-Ge laser spectra under uniaxial stress. <i>Physical Review B</i> , 1993, 47, 16586-16589.	3.2	2
402	p-type Ge cyclotron-resonance laser: Theory and experiment. <i>Physical Review B</i> , 1993, 47, 4522-4531.	3.2	13
403	Tunable FIR cyclotron resonance laser in p-Ge: New aspects of the influence of the bandstructure. <i>Physica Scripta</i> , 1993, T49B, 497-502.	2.5	1
404	Stimulated emission from p-Ge due to transitions between light-hole Landau levels and excited states of shallow impurities. <i>Applied Physics Letters</i> , 1992, 60, 1785-1787.	3.3	16
405	High Intensity p-Ge Tunable Cyclotron Resonance Laser. <i>Journal of Modern Optics</i> , 1992, 39, 561-568.	1.3	5
406	Tunable cyclotron resonance-laser in p-Ge. <i>Semiconductor Science and Technology</i> , 1992, 7, B604-B609.	2.0	16
407	Two-photon magnetoabsorption in GaAs/AlGaAs multiple quantum wells. <i>Surface Science</i> , 1992, 267, 505-508.	1.9	2
408	Tunable cyclotron-resonance laser in germanium. , 1991, , .		0
409	Tunable far-infrared solid-state lasers based on hot holes in germanium. <i>Optical and Quantum Electronics</i> , 1991, 23, S267-S286.	3.3	14
410	<title>First observation of 2P-magnetoexcitons in GaAs/AlGaAs multiple quantum wells via two-photon absorption processes</title>. , 1990, 1283, 310.		0
411	Tunable cyclotron-resonance laser in germanium. <i>Physical Review Letters</i> , 1990, 64, 2277-2280.	7.8	41
412	First observation of the forbidden 1s excitons in GaAs/AlGaAs multiple quantum wells via two-photon absorption spectra. <i>Surface Science</i> , 1990, 228, 53-56.	1.9	1
413	Two-photon absorption in GaAs/AlGaAs multiple quantum wells. <i>Physical Review Letters</i> , 1989, 62, 3078-3081.	7.8	32
414	Hot-carrier quantum distribution function in crossed electric and magnetic fields. <i>Physical Review B</i> , 1989, 39, 6212-6215.	3.2	7

#	ARTICLE	IF	CITATIONS
415	Single mode operation of the p-Ge FIR laser. Infrared Physics, 1989, 29, 357-360.	0.5	11
416	Tunable cyclotron resonance laser based on hot holes in germanium applied to FIR spectroscopy of GaAs/AlGaAs heterostructures. Solid-State Electronics, 1989, 32, 1527-1531.	1.4	11
417	New results on stimulated emission from p-Germanium in crossed fields. Solid-State Electronics, 1988, 31, 759-762.	1.4	8
418	Mode structure of the p-germanium far-infrared laser with and without external mirrors: Single line operation. Applied Physics Letters, 1988, 52, 564-566.	3.3	35
419	THz emission from parabolically graded quantum wells in tilted magnetic fields. , 0, , .		0
420	Voltage-controlled intracavity THz generator for self-starting Ti:sapphire lasers. , 0, , .		0
421	Time-resolved measurement of intersubband population dynamics. , 0, , .		0
422	Coherent and incoherent intersubband dynamics. , 0, , .		0
423	Ultrafast coherent electron transport in quantum cascade laser structures. , 0, , .		0
424	Photoconductive terahertz emitter with an integrated semiconductor Bragg mirror. , 0, , .		1
425	IR quantum dot detectors with miniband tunnel extraction. , 0, , .		0
426	Terahertz spectroscopy of vibrational modes of molecular crystal of sucrose. , 0, , .		1
427	Terahertz time-domain linear spectroscopy of single-walled carbon nanotube film. , 0, , .		0
428	Ultra-thin metallic layers studied by broadband terahertz time-domain spectroscopy. , 0, , .		0
429	Absorption of single-wall carbon nanotubes at terahertz frequencies. , 0, , .		0
430	Optical control processes in terahertz quantum-cascade laser waveguides. , 0, , .		1
431	Optical control in active terahertz waveguides. , 0, , .		0
432	THz evanescent field spectroscopy. , 0, , .		0

#	ARTICLE	IF	CITATIONS
433	Designer Laser Resonators based on Amplifying Photonic Crystals. , 0, , .		1