

Iman Kundu

List of Publications by Year in descending order

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38
papers

362
citations

759233

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794594

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39
all docs

39
docs citations

39
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	Apertureless near-field terahertz imaging using the self-mixing effect in a quantum cascade laser. Applied Physics Letters, 2016, 108, .	3.3	67
2	Generating ultrafast pulses of light from quantum cascade lasers. Optica, 2015, 2, 944.	9.3	52
3	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. Optics Express, 2014, 22, 16595.	3.4	27
4	Broadband heterogeneous terahertz frequency quantum cascade laser. Electronics Letters, 2018, 54, 1229-1231.	1.0	26
5	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. Nature Communications, 2020, 11, 835.	12.8	26
6	Quasi-continuous frequency tunable terahertz quantum cascade lasers with coupled cavity and integrated photonic lattice. Optics Express, 2017, 25, 486.	3.4	17
7	Continuous Frequency Tuning with near Constant Output Power in Coupled Y-Branched Terahertz Quantum Cascade Lasers with Photonic Lattice. ACS Photonics, 2018, 5, 2912-2920.	6.6	17
8	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. Nature Communications, 2018, 9, 3076.	12.8	16
9	Multi-spectral terahertz sensing: proposal for a coupled-cavity quantum cascade laser based optical feedback interferometer. Optics Express, 2017, 25, 10153.	3.4	15
10	Detection sensitivity of laser feedback interferometry using a terahertz quantum cascade laser. Optics Letters, 2019, 44, 3314.	3.3	15
11	Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-12.	2.9	12
12	Gas spectroscopy with integrated frequency monitoring through self-mixing in a terahertz quantum-cascade laser. Optics Letters, 2018, 43, 2225.	3.3	12
13	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. Optics Express, 2016, 24, 2174.	3.4	11
14	Origin of terminal voltage variations due to self-mixing in terahertz frequency quantum cascade lasers. Optics Express, 2016, 24, 21948.	3.4	10
15	Frequency Tunability and Spectral Control in Terahertz Quantum Cascade Lasers With Phase-Adjusted Finite-Defect-Site Photonic Lattices. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 360-367.	3.1	10
16	Giant optical nonlinearity interferences in quantum structures. Science Advances, 2019, 5, eaaw7554.	10.3	10
17	Wideband Electrically Controlled Vernier Frequency Tunable Terahertz Quantum Cascade Laser. ACS Photonics, 2020, 7, 765-773.	6.6	8
18	Terahertz photonic integrated circuit for frequency tuning and power modulation. Optics Express, 2020, 28, 4374.	3.4	7

#	ARTICLE	IF	CITATIONS
19	Terahertz pulse generation from quantum cascade lasers. , 2015, , .		1
20	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications. , 2016, , .		1
21	Terahertz frequency quantum cascade lasers: Optical feedback effects and applications. , 2016, , .		1
22	Quantum Transmission Line Modeling and Experimental Investigation of the Output Characteristics of a Terahertz Quantum Cascade Laser. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 333-342.	3.1	1
23	Thermo-optic detection of quantum cascade laser radiation in the range ∼2.2–2.9THz using a ZnTe crystal. , 2012, , .		0
24	Photothermoelastic response of zincblende crystals to radiation from a THz-frequency quantum cascade laser. , 2013, , .		0
25	Detection of terahertz frequency radiation via the photothermoelastic response of zincblende crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3151.	2.1	0
26	Injection seeding and modelocking of metal-metal Terahertz quantum cascade lasers. , 2015, , .		0
27	Far-field engineering of metal-metal terahertz quantum cascade lasers with integrated horn antennas. , 2015, , .		0
28	Waveguide-integrated terahertz-frequency quantum cascade lasers for detection of trace-gas species. , 2015, , .		0
29	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
30	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
31	Terahertz near-field microscopy using the self-mixing effect in a quantum cascade laser. , 2016, , .		0
32	Probing Ultrafast Switch-on Dynamics of Frequency Tuneable Semiconductor Lasers Using Terahertz Time-domain Spectroscopy. , 2019, , .		0
33	Programmable, Transform-Limited Pulses from a Terahertz Quantum Cascade Laser. ACS Photonics, 2020, 7, 2423-2428.	6.6	0
34	Corrections to "Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers" [Jul/Aug 17 Art. no. 1200312]. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-1.	2.9	0
35	Waveguide integrated terahertz quantum-cascade laser systems. , 2021, , .		0
36	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Continuous Frequency Tuning of Y-Branched Terahertz Quantum Cascade Lasers with Photonic Lattice. , 2018, , .		0
38	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0