Emilia PruszyÅ„ska-Karbownik

List of Publications by Year
in descending order

25 papers	107 citations	1937457 4 h-index	1372474 10 g-index
26 all docs	26 docs citations	26 times ranked	122 citing authors

#	Article	IF	Citations
1	MBE growth of strain-compensated InGaAs/InAlAs/InP quantum cascade lasers. Journal of Crystal Growth, 2017, 466, 22-29.	0.7	37
2	Direct Auâ€“Au bonding technology for high performance GaAs/AlGaAs quantum cascade lasers. Optical and Quantum Electronics, 2015, 47, 893-899.	1.5	14
3	Monolithic high-contrast grating planar microcavities. Nanophotonics, 2020, 9, 913-925.	2.9	13
4	GaAs/AlGaAs (~9.4 Î¼m) quantum cascade lasers operating at 260 K. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2010, 58, .	0.8	5
5	On the beam radiance of mid-infrared quantum cascade lasersâ€“A review. Opto-electronics Review, 2019, 27, 161-173.	2.4	5
6	Tailoring of optical mode profiles of high-power diode lasers evidenced by near-field photocurrent spectroscopy. Applied Physics Letters, 2007, 91, 101103.	1.5	4
7	Mid-Infrared Quantum Cascade Lasers With Nonuniformly Tapered Waveguides. Journal of Lightwave Technology, 2019, 37, 2324-2327.	2.7	4
8	Numerical model for small-signal modulation response in vertical-cavity surface-emitting lasers. Journal Physics D: Applied Physics, 2020, 53, 345101.	1.3	4
9	Analysis of the spatial distribution of radiation emitted by MIR quantum cascade lasers. , 2013, , .		3
10	Development of (Î»â^¼9.4Âµm) GaAs-based quantum cascade lasers. , 2009, , .		2
11	Intra-pulse beam steering in a mid-infrared quantum cascade laser. Optical and Quantum Electronics, 2015, 47, 835-842.	1.5	2
12	A novel method to calculate a near field of widely divergent laser beams. Optical and Quantum Electronics, 2016, 48, 1.	1.5	2
13	Optical polarization shift in beams emitted by quantum cascade lasers. Optical and Quantum Electronics, 2019, 51, 1.	1.5	2
14	Extended bound states in the continuum in a one-dimensional grating implemented on a distributed Bragg reflector. Nanophotonics, 2021, 11, 45-52.	2.9	2
15	Theoretical Analysis of Red-shift and Optical Gain in the Step-like GaInNAs/GaNAs Quantum Well. , 2006, , .		1
16	Calculation of beam divergence of a quantum cascade laser by effective index method. Proceedings of SPIE, 2013, , .	0.8	1
17	Field distribution in waveguide of mid-infrared strain-compensated InAlAs/InGaAs/InP quantum cascade laser. Optical and Quantum Electronics, 2017, 49, 1.	1.5	1
18	Mid-infrared quantum cascade laser waveguides with non-vertical sidewalls. Infrared Physics and Technology, 2021, 118, 103902.	1.3	1

#	Article	IF	Citations
19	Room temperature AlGaAs/GaAs quantum cascade lasers. Photonics Letters of Poland, 2011, 3, .	0.2	1
20	Sensitive Metal-Semiconductor Nanothermocouple Fabricated by FIB to Investigate Laser Beams with Nanometer Spatial Resolution. Sensors, 2022, 22, 287.	2.1	1
21	Electrical and optical characterisation of (Î»â^¼9.4Âµm) GaAs-based quantum cascade lasers. , 2009, , .		0
22	Measurements and analysis of antireflection coatings reflectivity related to external cavity lasers. Optics Communications, 2011, 284, 373-375.	1.0	0
23	Transverse Mode Propagation in Folded Waveguides of Quantum Cascade Lasers. , 2018, , .		0
24	Optical Beam Characteristics of Quantum Cascade Laser with Mirrors Cleaned by Focused Ion Beam. , 2018, , .		0
25	A simple and precise method for the threshold current determination in vertical-cavity surface-emitting lasers. Optica Applicata, 2020, 50, .	0.1	0