Jukka ViheriÃ¤lÃ¤

List of Publications by Year
in descending order

Version: 2024-02-01

20 papers	216 citations	1163117 8 h-index	996975 15 g-index
20 all docs	20 docs citations	20 times ranked	173 citing authors

#	Article	IF	Citations
1	Hybrid silicon photonics DBR laser based on flip-chip integration of GaSb amplifiers and Âµm-scale SOI waveguides. Optics Express, 2022, 30, 24995.	3.4	11
2	High-Power 1.5 Î¼m Tapered Distributed Bragg Reflector Laser Diodes for Eye-Safe LIDAR. IEEE Photonics Technology Letters, 2020, 32, 1249-1252.	2.5	4
3	GaSb diode lasers tunable around 2.6 Î¼ m using silicon photonics resonators or external diffractive gratings. Applied Physics Letters, 2020, 116, .	3.3	21
4	High Peak Power Laser Diodes for Eye Safe LIDAR with Integrated Wavelength Locking Element. , 2019, , .		0
5	Design Strategies for Power Scaling of GaSb-Based Superluminescent Diodes for 2 â€“ 3 Î¼m Wavelength Range. , 2019, , .		0
6	GaSb-Based 2.55 Î¼m External Cavity Diode Lasers Employing Ruled Diffraction Gratings and External Silicon Photonics Vernier Reflectors. , 2019, , .		0
7	High Power $1.5mu$ m Pulsed Laser Diode With Asymmetric Waveguide and Active Layer Near p-cladding. IEEE Photonics Technology Letters, 2019, 31, 1635-1638.	2.5	14
8	High power GaInNAs superluminescent diodes emitting over 400 mW in the 1.2 Î¼m wavelength range. Applied Physics Letters, 2019, 115, .	3.3	5
9	High-power single mode GaSb-based 2â€‰Î¼m superluminescent diode with double-pass gain. Applied Physics Letters, 2019, 115, .	3.3	7
10	High-power 1.5Î¼m laser diodes for LIDAR applications. , 2019, , .		3
11	GaSb superluminescent diodes with broadband emission at 2.55â€‰Î¼m. Applied Physics Letters, 2018, 112, .	3.3	15
12	High-Power 1.5-mu m Broad Area Laser Diodes Wavelength Stabilized by Surface Gratings. IEEE Photonics Technology Letters, 2018, 30, 1870-1873.	2.5	6
13	Low loss GaInNAs/GaAs gain waveguides with U-bend geometry for single-facet coupling in hybrid photonic integration. Applied Physics Letters, 2018, 113, 041104.	3.3	8
14	Multi-wavelength mid-IR light source for gas sensing. Proceedings of SPIE, 2017, , .	0.8	6
15	High-power 1550 nm tapered DBR laser diodes for LIDAR applications. , 2017, , .		5
16	High-Power 1180-nm GaInNAs DBR Laser Diodes. IEEE Photonics Technology Letters, 2017, 29, 2023-2026.	2.5	7
17	High power (60 mW) GaSb-based 1.9â€‰Î¼m superluminescent diode with cavity suppression element. Applied Physics Letters, 2016, 109, .	3.3	21
18	High Spectral Purity High-Power GaSb-Based DFB Laser Fabricated by Nanoimprint Lithography. IEEE Photonics Technology Letters, 2016, 28, 1233-1236.	2.5	17

#	Article	IF	Citations
19	High-power temperature-stable GaInNAs distributed Bragg reflector laser emitting at 1180â€‰â€‰nm. Optics Letters, 2016, 41, 657.	3.3	15
20	Applications of UV-nanoimprint soft stamps in fabrication of single-frequency diode lasers. Microelectronic Engineering, 2009, 86, 321-324.	2.4	51