

Takaaki Kakitsuka

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

414
citations

933447

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1058476

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docs citations

21
times ranked

278
citing authors

#	ARTICLE	IF	CITATIONS
1	Directly modulated buried heterostructure DFB laser on SiO ₂ /Si substrate fabricated by regrowth of InP using bonded active layer. Optics Express, 2014, 22, 12139.	3.4	110
2	Low-operating-energy directly modulated lasers for short-distance optical interconnects. Advances in Optics and Photonics, 2018, 10, 567.	25.5	52
3	Epitaxial growth of InP to bury directly bonded thin active layer on SiO ₂ /Si substrate for fabricating distributed feedback lasers on silicon. IET Optoelectronics, 2015, 9, 151-157.	3.3	45
4	Multiwavelength membrane laser array using selective area growth on directly bonded InP on SiO ₂ /Si. Optica, 2020, 7, 838.	9.3	40
5	Membrane distributed-reflector laser integrated with SiOx-based spot-size converter on Si substrate. Optics Express, 2016, 24, 18346.	3.4	39
6	Membrane InGaAsP Mach-Zehnder Modulator Integrated With Optical Amplifier on Si Platform. Journal of Lightwave Technology, 2020, 38, 3030-3036.	4.6	20
7	>100-GHz Bandwidth Directly-Modulated Lasers and Adaptive Entropy Loading for Energy-Efficient >300-Gbps IM/DD Systems. Journal of Lightwave Technology, 2021, 39, 771-778.	4.6	18
8	Membrane InGaAsP Mach-Zehnder modulator with SiN:D waveguides on Si platform. Optics Express, 2019, 27, 18612.	3.4	16
9	Membrane III-V/Si DFB Laser Using Uniform Grating and Width-Modulated Si Waveguide. Journal of Lightwave Technology, 2020, 38, 2961-2967.	4.6	15
10	Integration of a high-efficiency Mach-Zehnder modulator with a DFB laser using membrane InP-based devices on a Si photonics platform. Optics Express, 2021, 29, 2431.	3.4	13
11	47.5 GHz Membrane-III-V-on-Si Directly Modulated Laser for Sub-pJ/bit 100-Gbps Transmission. Photonics, 2021, 8, 31.	2.0	10
12	60 GHz Bandwidth Directly Modulated Membrane III-V Lasers on SiO ₂ /Si. Journal of Lightwave Technology, 2022, 40, 3299-3306.	4.6	10
13	Twin-mirror membrane distributed-reflector lasers using 20- μ m-long active region on Si substrates. Optics Express, 2018, 26, 1268.	3.4	8
14	50-GHz-Bandwidth Membrane InGaAsP Electro-Absorption Modulator on Si Platform. Journal of Lightwave Technology, 2021, 39, 5300-5306.	4.6	6
15	Energy-Efficient 120-Gbps DMT Transmission Using a 1.3- μ m Membrane Laser on Si. , 2018, , .		6
16	Over-67-GHz-bandwidth Membrane InGaAlAs EADFB Laser on Si Platform. , 2022, , .		2
17	High-temperature Continuous-wave Operation of 1.3- μ m Membrane Distributed Reflector Lasers on SiC. , 2019, , .		1
18	Heterogeneously Integrated Membrane DFB Laser and Si Mach-Zehnder Modulator on Si Photonics Platform. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	2-channel 112-Gbps NRZ Short-Reach Transmission Based on 60-GHz-Bandwidth Directly-Modulated Membrane Laser Array on Si. , 2021, , .		1
20	60-GHz-bandwidth O-band Membrane InGaAlAs Electro-Absorption Modulator on Si Platform. , 2021, , .		1
21	Membrane InP-based Modulator and Laser on Si. , 2021, , .		0