

Suguru Yamaoka

List of Publications by Year in descending order

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14
papers

243
citations

1478505

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1720034

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all docs

15
docs citations

15
times ranked

302
citing authors

#	ARTICLE	IF	CITATIONS
1	Directly modulated membrane lasers with 108%GHz bandwidth on a high-thermal-conductivity silicon carbide substrate. Nature Photonics, 2021, 15, 28-35.	31.4	108
2	Initial process of photoluminescence dynamics of self-trapped excitons in a In^2O_3 single crystal. Physical Review B, 2017, 95, .	3.2	41
3	Evidence for formation of self-trapped excitons in a $\text{In}^2\text{Ga}_2\text{O}_3$ single crystal. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 93-96.	0.8	38
4	>100-GHz Bandwidth Directly-Modulated Lasers and Adaptive Entropy Loading for Energy-Efficient >300-Gbps/s IM/DD Systems. Journal of Lightwave Technology, 2021, 39, 771-778.	4.6	18
5	Net 321.24-Gb/s IMDD Transmission Based on a >100-GHz Bandwidth Directly-Modulated Laser. , 2020, , .		13
6	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
7	Characteristics of Multi-photon Absorption in a $\text{In}^2\text{Ga}_2\text{O}_3$ Single Crystal. Journal of the Physical Society of Japan, 2019, 88, 113701.	1.6	6
8	Photoluminescence polarization characteristics of self-trapped excitons in an undoped $\text{In}^2\text{Ga}_2\text{O}_3$ single crystal. Journal of Physics: Conference Series, 2019, 1220, 012030.	0.4	4
9	Direct Modulation of Membrane Distributed Reflector Lasers using Optical Feedback. , 2021, , .		3
10	High-temperature Continuous-wave Operation of 1.3- μm Membrane Distributed Reflector Lasers on SiC. , 2019, , .		1
11	2-channel 112-Gbps NRZ Short-Reach Transmission Based on 60-GHz-Bandwidth Directly-Modulated Membrane Laser Array on Si. , 2021, , .		1
12	Single-mode Operation of 1.3- μm Membrane Distributed Reflector Lasers on SiC Wafers. , 2019, , .		0
13	Net 113-Gbps PAM-4 Transmission Using Membrane DML-on-Si with 0.34 pJ/bit at 50 $^\circ\text{C}$. , 2020, , .		0
14	100-GHz-class directly modulated membrane lasers on SiC substrate. , 2021, , .		0