

Matthias Lauermann

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,777
citations

567281

15
h-index

888059

17
g-index

20
all docs

20
docs citations

20
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent terabit communications with microresonator Kerr frequency combs. <i>Nature Photonics</i> , 2014, 8, 375-380.	31.4	526
2	Femtojoule electro-optic modulation using a silicon-organic hybrid device. <i>Light: Science and Applications</i> , 2015, 4, e255-e255.	16.6	187
3	Silicon-Organic Hybrid Electro-Optical Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 114-126.	2.9	134
4	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. <i>Optica</i> , 2018, 5, 739.	9.3	131
5	High-Speed, Low Drive-Voltage Silicon-Organic Hybrid Modulator Based on a Binary-Chromophore Electro-Optic Material. <i>Journal of Lightwave Technology</i> , 2014, 32, 2726-2734.	4.6	130
6	Silicon-Organic and Plasmonic-Organic Hybrid Photonics. <i>ACS Photonics</i> , 2017, 4, 1576-1590.	6.6	123
7	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. <i>Journal of Lightwave Technology</i> , 2016, 34, 256-268.	4.6	119
8	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018, 8, 2598.	3.3	81
9	Hybrid multi-chip assembly of optical communication engines by in situ 3D nano-lithography. <i>Light: Science and Applications</i> , 2020, 9, 71.	16.6	77
10	40 GBd 16QAM Signaling at 160 Gb/s in a Silicon-Organic Hybrid Modulator. <i>Journal of Lightwave Technology</i> , 2015, 33, 1210-1216.	4.6	50
11	DAC-Less Amplifier-Less Generation and Transmission of QAM Signals Using Sub-Volt Silicon-Organic Hybrid Modulators. <i>Journal of Lightwave Technology</i> , 2015, 33, 1425-1432.	4.6	44
12	Lasing in silicon-organic hybrid waveguides. <i>Nature Communications</i> , 2016, 7, 10864.	12.8	44
13	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. <i>Optica</i> , 2021, 8, 511.	9.3	41
14	Silicon-organic hybrid (SOH) modulators for intensity-modulation / direct-detection links with line rates of up to 120 Gbit/s. <i>Optics Express</i> , 2017, 25, 23784.	3.4	40
15	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 °C. <i>Optics Express</i> , 2018, 26, 27955.	3.4	32
16	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. <i>Optics Express</i> , 2018, 26, 34580.	3.4	12
17	First Silicon-Organic Hybrid Laser at Telecommunication Wavelengths. , 2012, , .		3
18	NLO: ELECTRO-OPTIC APPLICATIONS. <i>Materials and Energy</i> , 2016, , 369-396.	0.1	2

#	ARTICLE	IF	CITATIONS
19	Terabit/s communications using chip-scale frequency comb sources. , 2015, , .		1
20	Silicon-organic hybrid fabrication platform for integrated circuits. , 2012, , .		0