

# Matthias Lauermann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12005351/publications.pdf>

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	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. <i>Optica</i> , 2021, 8, 511.	9.3	41
2	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
3	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018, 8, 2598.	3.3	81
4	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. <i>Optica</i> , 2018, 5, 739.	9.3	131
5	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 Å°C. <i>Optics Express</i> , 2018, 26, 27955.	3.4	32
6	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. <i>Optics Express</i> , 2018, 26, 34580.	3.4	12
7	Silicon-Organic and Plasmonic-Organic Hybrid Photonics. <i>ACS Photonics</i> , 2017, 4, 1576-1590.	6.6	123
8	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
9	NLO: ELECTRO-OPTIC APPLICATIONS. <i>Materials and Energy</i> , 2016, , 369-396.	0.1	2
10	Lasing in silicon-organic hybrid waveguides. <i>Nature Communications</i> , 2016, 7, 10864.	12.8	44
11	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. <i>Journal of Lightwave Technology</i> , 2016, 34, 256-268.	4.6	119
12	Femtojoule electro-optic modulation using a silicon-organic hybrid device. <i>Light: Science and Applications</i> , 2015, 4, e255-e255.	16.6	187
13	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
14	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
15	Terabit/s communications using chip-scale frequency comb sources. , 2015, , .		1
16	Coherent terabit communications with microresonator Kerr frequency combs. <i>Nature Photonics</i> , 2014, 8, 375-380.	31.4	526
17	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
18	Silicon-Organic Hybrid Electro-Optical Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 114-126.	2.9	134

#	ARTICLE	IF	CITATIONS
19	Silicon-organic hybrid fabrication platform for integrated circuits. , 2012, , .		0
20	First Silicon-Organic Hybrid Laser at Telecommunication Wavelengths. , 2012, , .		3