

# Emanuel P Haglund

## List of Publications by Year in descending order

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22  
papers

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citations

840585

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1058333

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all docs

22  
docs citations

22  
times ranked

447  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-speed 850-nm VCSELs operating error free up to 57-Gbit/s. Electronics Letters, 2013, 49, 1021-1023.	0.5	128
2	30-GHz bandwidth 850-nm VCSEL with sub-100 fJ/bit energy dissipation at 25-50-Gbit/s. Electronics Letters, 2015, 51, 1096-1098.	0.5	114
3	Impact of Damping on High-Speed Large Signal VCSEL Dynamics. Journal of Lightwave Technology, 2015, 33, 795-801.	2.7	51
4	High-Speed VCSELs With Strong Confinement of Optical Fields and Carriers. Journal of Lightwave Technology, 2016, 34, 269-277.	2.7	34
5	Silicon-integrated short-wavelength hybrid-cavity VCSEL. Optics Express, 2015, 23, 33634.	1.7	30
6	1060-nm VCSELs for long-reach optical interconnects. Optical Fiber Technology, 2018, 44, 36-42.	1.4	27
7	Vertical-Cavity Silicon-Integrated Laser with In-Plane Waveguide Emission at 850-nm. Laser and Photonics Reviews, 2018, 12, 1700206.	4.4	23
8	Impact of Damping on 50 Gbps 4-PAM Modulation of 25G Class VCSELs. Journal of Lightwave Technology, 2017, 35, 4203-4209.	2.7	19
9	Silicon-Integrated Hybrid-Cavity 850-nm VCSELs by Adhesive Bonding: Impact of Bonding Interface Thickness on Laser Performance. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	1.9	18
10	1060-nm single-mode vertical-cavity surface-emitting laser operating at 50-Gbit/s data rate. Electronics Letters, 2017, 53, 869-871.	0.5	17
11	20-Gb/s Modulation of Silicon-Integrated Short-Wavelength Hybrid-Cavity VCSELs. IEEE Photonics Technology Letters, 2016, 28, 856-859.	1.3	13
12	High-speed VCSELs and VCSEL arrays for single- and multi-core fiber interconnects. Proceedings of SPIE, 2015, , .	0.8	9
13	Design of an 845-nm GaAs Vertical-Cavity Silicon-Integrated Laser with an Intracavity Grating for Coupling to a SiN Waveguide Circuit. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	9
14	VCSEL design and integration for high-capacity optical interconnects. Proceedings of SPIE, 2017, , .	0.8	7
15	VCSEL modulation speed: status and prospects. , 2019, , .		6
16	The Future of VCSELs: Dynamics and Speed Limitations. , 2020, , .		5
17	Integration of GaAs-based VCSEL array on SiN platform with HCG reflectors for WDM applications. , 2015, , .		3
18	Dynamic properties of silicon-integrated short-wavelength hybrid-cavity VCSEL. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Hybrid vertical-cavity laser integration on silicon. , 2017, , .		1
20	850 nm hybrid vertical cavity laser integration for on-chip silicon photonics light sources. , 2017, , .		1
21	Impact of Damping on Large Signal VCSEL Dynamics. , 2014, , .		0
22	Vertical-Cavity Silicon-Integrated Laser with In-Plane Waveguide Emission at 850Ånm (Laser Photonics) Tj ETQq0 0 0 rgBT /Overlock 10	4.48	0