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VCSEL Fundamentals

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
22	. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 613-621	2	24
21	Impact of Photon Lifetime on the Temperature Stability of 50 Gb/s 980 nm VCSELs. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2327-2330	2.2	26
20	Impact of photon lifetime on maximum bitrate and temperature stability of 980 nm VCSELs for 50 Gb/s optical interconnects. 2016 ,		
19	Silicon-Integrated Hybrid-Cavity 850-nm VCSELs by Adhesive Bonding: Impact of Bonding Interface Thickness on Laser Performance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-9	3.8	12
18	Mirror design for long-wavelength vertical-cavity surface-emitting lasers. <i>Laser Physics Letters</i> , 2017 , 14, 125801	1.5	2
17	Thermal analysis of high-bandwidth and energy-efficient 980 nm VCSELs with optimized quantum well gain peak-to-cavity resonance wavelength offset. <i>Applied Physics Letters</i> , 2017 , 111, 243508	3.4	7
16	Limited validity range of the modulation current efficiency factor of directly modulated semiconductor lasers. 2017 ,		
15	Vertical-cavity surface-emitting laser technology applications with focus on sensors and three-dimensional imaging. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 08PA02	1.4	17
14	High-Power GaN-Based Vertical-Cavity Surface-Emitting Lasers with AlInN/GaN Distributed Bragg Reflectors. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 416	2.6	28
13	Modulation response of VCSELs: a physics-based simulation approach. 2020 ,		0
12	Numerical model for small-signal modulation response in vertical-cavity surface-emitting lasers. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 345101	3	0
11	Low Threshold 1550-nm Emitting QD Optically Pumped VCSEL. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 69-72	2.2	2
10	A comparative study of thermal characteristics of GaN-based VCSELs with three different typical structures. <i>Semiconductor Science and Technology</i> , 2018 , 33, 015016	1.8	16
9	Polarization Modulated Vertical-Cavity Surface-Emitting Lasers in Quantum Key Distribution. <i>Springer Series in Optical Sciences</i> , 2019 , 75-92	0.5	
8	Stressor-Induced Site Control of Quantum Dots for Single-Photon Sources. <i>Springer Series in Solid-state Sciences</i> , 2020 , 53-90	0.4	2
7	Current Injection into Oxide-Confined Single-Photon Emitting Diodes. <i>Springer Theses</i> , 2020 , 73-85	0.1	
6	Ultimate parameters of the all-optical single-beam non-zero magnetic field sensor for biological applications. <i>IEEE Magnetism Letters</i> , 2021 , 1-1	1.6	0

5	VCSEL Quick Fabrication for Assessment of Large Diameter Epitaxial Wafers. <i>IEEE Photonics Journal</i> , 2022 , 1-1	1.8	○
4	Physics-Based Time-Domain Modeling of VCSELs. 2022 ,		○
3	Polarization control of 795 nm vertical-cavity surface-emitting lasers by in-phase surface gratings. 2022 , 61, 8389		1
2	Vertical-cavity surface-emitting laser (VCSEL) based distance sensing for parking assistance. 2022 ,		○
1	High Slope Efficiency Double and Triple Junction 808 nm Vertical Cavity Surface Emitting Lasers. 2023 , 35, 533-536		○