Anders Larsson

List of Publications by Year in descending order

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76196 106150 5,573 179 40 65 citations h-index g-index papers 179 179 179 2245 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A 71-Gb/s NRZ Modulated 850-nm VCSEL-Based Optical Link. IEEE Photonics Technology Letters, 2015, 27, 577-580.	1.3	277
2	Advances in VCSELs for Communication and Sensing. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1552-1567.	1.9	223
3	Single Fundamental-Mode Output Power Exceeding 6 mW From VCSELs With a Shallow Surface Relief. IEEE Photonics Technology Letters, 2004, 16, 368-370.	1.3	185
4	Impact of Photon Lifetime on High-Speed VCSEL Performance. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1603-1613.	1.9	170
5	Transverse mode selection in large-area oxide-confined vertical-cavity surface-emitting lasers using a shallow surface relief. IEEE Photonics Technology Letters, 1999, 11, 1536-1538.	1.3	134
6	Highâ€speed 850Ânm VCSELs operating error free up to 57ÂGbit/s. Electronics Letters, 2013, 49, 1021-1023.	0.5	128
7	High-Speed, Low-Current-Density 850 nm VCSELs. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 694-703.	1.9	126
8	High-speed 850â€nm VCSELs with 28â€GHz modulation bandwidth operating error-free up to 44â€Gbit/s. Electronics Letters, 2012, 48, 1145-1147.	0.5	124
9	4-PAM for High-Speed Short-Range Optical Communications. Journal of Optical Communications and Networking, 2012, 4, 885.	3.3	117
10	High-Speed Oxide Confined 850-nm VCSELs Operating Error-Free at 40 Gb/s up to 85 <formula formulatype="inline"><tex notation="TeX">\$^{circ}{m C}\$</tex></formula> . IEEE Photonics Technology Letters, 2013, 25, 768-771.	1.3	104
11	Tunable superlattice p-i-n photodetectors: characteristics, theory, and application. IEEE Journal of Quantum Electronics, 1988, 24, 787-801.	1.0	102
12	40â€Gbit/s error-free operation of oxide-confined 850â€nm VCSEL. Electronics Letters, 2010, 46, 1014.	0.5	98
13	70 Cbps 4-PAM and 56 Cbps 8-PAM Using an 850 nm VCSEL. Journal of Lightwave Technology, 2015, 33, 1395-1401.	2.7	84
14	Comparison of optical VCSEL models on the simulation of oxide-confined devices. IEEE Journal of Quantum Electronics, 2001, 37, 1618-1631.	1.0	82
15	Second quantized state lasing of a current pumped single quantum well laser. Applied Physics Letters, 1986, 49, 1689-1691.	1.5	80
16	InGaAs/InGaAsp/InP strained-layer quantum well lasers at ~2 μm. Electronics Letters, 1992, 28, 1431.	0.5	78
17	Influence of a thin GaAs cap layer on structural and optical properties of InAs quantum dots. Applied Physics Letters, 2002, 81, 1195-1197.	1.5	73
18	32â€Gbit/s multimode fibre transmission using high-speed, low current density 850â€nm VCSEL. Electronics Letters, 2009, 45, 366.	0.5	71

#	Article	IF	CITATIONS
19	A 50 Gb/s NRZ Modulated 850 nm VCSEL Transmitter Operating Error Free to 90 \hat{A}° C. Journal of Lightwave Technology, 2015, 33, 802-810.	2.7	71
20	Lateral modes of broad area semiconductor lasers: theory and experiment. IEEE Journal of Quantum Electronics, 1991, 27, 312-320.	1.0	69
21	Active Region Design for High-Speed 850-nm VCSELs. IEEE Journal of Quantum Electronics, 2010, 46, 506-512.	1.0	69
22	Analog modulation properties of oxide confined VCSELs at microwave frequencies. Journal of Lightwave Technology, 2002, 20, 1740-1749.	2.7	67
23	A comprehensive model for the modal dynamics of vertical-cavity surface-emitting lasers. IEEE Journal of Quantum Electronics, 2002, 38, 203-212.	1.0	65
24	RF Transmission Over Multimode Fibers Using VCSELsâ€"Comparing Standard and High-Bandwidth Multimode Fibers. Journal of Lightwave Technology, 2004, 22, 1694-1700.	2.7	63
25	Single-frequency operation of a high-power, long-wavelength semiconductor disk laser. Optics Letters, 2005, 30, 2260.	1.7	58
26	Assessment of VCSEL thermal rollover mechanisms from measurements and empirical modeling. Optics Express, 2011, 19, 15490.	1.7	58
27	1.58μm InGaAs quantum well laser on GaAs. Applied Physics Letters, 2007, 91, 221101.	1.5	57
28	60ÂGbits errorâ€free 4â€PAM operation with 850Ânm VCSEL. Electronics Letters, 2013, 49, 953-955.	0.5	56
29	30 Gbps 4-PAM transmission over 200 m of MMF using an 850 nm VCSEL. Optics Express, 2011, 19, B203.	1.7	54
30	Impact of Damping on High-Speed Large Signal VCSEL Dynamics. Journal of Lightwave Technology, 2015, 33, 795-801.	2.7	51
31	Impedance Characteristics and Parasitic Speed Limitations of High-Speed 850-nm VCSELs. IEEE Photonics Technology Letters, 2009, 21, 1840-1842.	1.3	50
32	ActiveQswitching in a GaAs/AlGaAs multiquantum well laser with an intracavity monolithic loss modulator. Applied Physics Letters, 1986, 48, 561-563.	1.5	48
33	High-efficiency broad-area single-quantum-well lasers with narrow single-lobed far-field patterns prepared by molecular beam epitaxy. Electronics Letters, 1986, 22, 79.	0.5	48
34	Thermal management of optically pumped long-wavelength InP-based semiconductor disk lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 1126-1134.	1.9	48
35	25â€Gbit/s transmission over 500â€m multimode fibre using 850â€nm VCSEL with integrated mode filter. Electronics Letters, 2012, 48, 517.	0.5	45
36	Highly directional grating outcouplers with tailorable radiation characteristics. IEEE Journal of Quantum Electronics, 1996, 32, 1038-1047.	1.0	44

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37	Large aperture 850â€nm VCSELs operating at bit rates up to 25â€Gbit/s. Electronics Letters, 2008, 44, 907.	0.5	44
38	20ÂGbit/s data transmission over 2Âkm multimode fibre using 850Ânm mode filter VCSEL. Electronics Letters, 2014, 50, 40-42.	0.5	44
39	Monolithic integration of vertical-cavity surface-emitting laser and diffractive optical element for advanced beam shaping. IEEE Photonics Technology Letters, 1999, 11, 503-505.	1.3	42
40	Pure frequency-polarisation bistability in vertical cavity surface-emitting semiconductor laser subject to optical injection. Electronics Letters, 2000, 36, 2019.	0.5	42
41	Large ground-to-first-excited-state transition energy separation for InAs quantum dots emitting at 1.3 \hat{l} 4m. Applied Physics Letters, 2002, 81, 1621-1623.	1.5	42
42	94-Gb/s 4-PAM Using an 850-nm VCSEL, Pre-Emphasis, and Receiver Equalization. IEEE Photonics Technology Letters, 2016, 28, 2519-2521.	1.3	42
43	40 Gb/s Data Transmission Over a 1-m-Long Multimode Polymer Spiral Waveguide for Board-Level Optical Interconnects. Journal of Lightwave Technology, 2015, 33, 882-888.	2.7	41
44	Optical absorption by free holes in heavily doped GaAs. Physical Review B, 1991, 44, 1128-1133.	1,1	40
45	Mode locking a 1550 nm semiconductor disk laser by using a GalnNAs saturable absorber. Optics Letters, 2005, 30, 2793.	1.7	40
46	Off-plane computer-generated waveguide hologram. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 226-235.	1.9	38
47	Influence of initial GaAs and AlAs cap layers on InAs quantum dots grown by molecular beam epitaxy. Journal of Crystal Growth, 2003, 251, 145-149.	0.7	38
48	Low threshold continuous operation of InGaAs/InGaAsP quantum well lasers at ~2.0 $\hat{1}\frac{1}{4}$ m. Electronics Letters, 1993, 29, 574.	0.5	37
49	0.8â€W optically pumped vertical external cavity surface emitting laser operating CW at 1550â€nm. Electronics Letters, 2004, 40, 601.	0.5	36
50	VCSEL Arrays for Multicore Fiber Interconnects With an Aggregate Capacity of 240 Gb/s. IEEE Photonics Technology Letters, 2015, 27, 296-299.	1.3	36
51	Direct high-frequency modulation of VCSELs and applications in fibre optic RF and microwave links. New Journal of Physics, 2004, 6, 176-176.	1.2	35
52	Dynamic behavior of fundamental-mode stabilized VCSELs using a shallow surface relief. IEEE Journal of Quantum Electronics, 2004, 40, 607-619.	1.0	35
53	Comparison of Intersymbol Interference Power Penalties for OOK and 4-PAM in Short-Range Optical Links. Journal of Lightwave Technology, 2013, 31, 3525-3534.	2.7	35
54	High-Speed VCSELs With Strong Confinement of Optical Fields and Carriers. Journal of Lightwave Technology, 2016, 34, 269-277.	2.7	34

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55	Efficient and individually controllable mechanisms for mode and polarization selection in VCSELs, based on a common, localized, sub-wavelength surface grating. Optics Express, 2005, 13, 6626.	1.7	33
56	Speed enhancement of VCSELs by photon lifetime reduction. Electronics Letters, 2010, 46, 938.	0.5	33
57	An Energy Efficient 56 Gbps PAM-4 VCSEL Transmitter Enabled by a 100 Gbps Driver in 0.25 νm InP DHBT Technology. Journal of Lightwave Technology, 2016, 34, 4954-4964.	2.7	33
58	High-power single transverse and polarization mode VCSEL for silicon photonics integration. Optics Express, 2019, 27, 18892.	1.7	33
59	Lateral coherence properties of broadâ€area semiconductor quantum well lasers. Journal of Applied Physics, 1986, 60, 66-68.	1.1	32
60	Numerical optimization of the single fundamental mode output from a surface modified vertical-cavity surface-emitting laser. IEEE Journal of Quantum Electronics, 2001, 37, 108-117.	1.0	32
61	High-speed digital modulation characteristics of oxide-confined vertical-cavity surface-emitting lasers-numerical simulations consistent with experimental results. IEEE Journal of Quantum Electronics, 2002, 38, 1089-1096.	1.0	32
62	Very low threshold current density $1.3\hat{1}/4$ m GalnNAs single-quantum well lasers grown by molecular beam epitaxy. Journal of Crystal Growth, 2005, 278, 734-738.	0.7	32
63	Design and Evaluation of Fundamental-Mode and Polarization-Stabilized VCSELs With a Subwavelength Surface Grating. IEEE Journal of Quantum Electronics, 2006, 42, 231-240.	1.0	32
64	10â€Gbit/s modulation of 1.3â€[micro sign]m GalnNAs lasers up to 110°C. Electronics Letters, 2006, 42, 9	250.5	32
65	Highâ€speed dualâ€wavelength demultiplexing and detection in a monolithic superlatticepâ€iâ€nwaveguide detector array. Applied Physics Letters, 1986, 49, 233-235.	1.5	31
66	Spectral and temporal characteristics of AlGaAs/GaAs superlatticepâ€iâ€nphotodetectors. Applied Physics Letters, 1985, 47, 866-868.	1.5	30
67	Single-mode power dependence on surface relief size for mode-stabilized oxide-confined vertical-cavity surface-emitting lasers. IEEE Photonics Technology Letters, 2000, 12, 1129-1131.	1.3	30
68	Silicon-integrated short-wavelength hybrid-cavity VCSEL. Optics Express, 2015, 23, 33634.	1.7	30
69	InGaAs/AlGaAs distributed Bragg reflector lasers with curved surface gratings for monolithic integration. Electronics Letters, 1997, 33, 1464.	0.5	29
70	1060 nm Single-Mode VCSEL and Single-Mode Fiber Links for Long-Reach Optical Interconnects. Journal of Lightwave Technology, 2019, 37, 2963-2969.	2.7	29
71	1.27â€[micro sign]m metamorphic InGaAs quantum well lasers on GaAs substrates. Electronics Letters, 2006, 42, 691.	0.5	27
72	Suppression of Higher Order Transverse and Oxide Modes in 1.3-\$mu\$m InGaAs VCSELs by an Inverted Surface Relief. IEEE Photonics Technology Letters, 2007, 19, 327-329.	1.3	27

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73	High performance 1.28â€[micro sign]m GalnNAs double quantum well lasers. Electronics Letters, 2005, 41, 1328.	0.5	26
74	Uncooled 2.5 Gb/s operation of 1.3 \hat{l} /4m GalnNAs DQW lasers over a wide temperature range. Optics Express, 2006, 14, 2753.	1.7	26
7 5	Low-threshold grating-coupled surface-emitting lasers with etch-stop layer for precise grating positioning. IEEE Photonics Technology Letters, 1993, 5, 1149-1152.	1.3	25
76	Continuous-level phase-only computer-generated hologram realized by dislocated binary gratings. Optics Letters, 1996, 21, 1516.	1.7	25
77	Dynamics and Temperature-Dependence of 1.3-\$mu{hbox {m}}\$ GalnNAs Double Quantum-Well Lasers. IEEE Journal of Quantum Electronics, 2006, 42, 1274-1280.	1.0	25
78	High-Temperature Dynamics, High-Speed Modulation, and Transmission Experiments Using 1.3-\$muhbox{m}\$ InGaAs Single-Mode VCSELs. Journal of Lightwave Technology, 2007, 25, 2791-2798.	2.7	25
79	Strainedâ€layer InGaAs/GaAs/AlGaAs single quantum well lasers with high internal quantum efficiency. Applied Physics Letters, 1989, 55, 2268-2270.	1.5	24
80	Effects of Lateral Diffusion on the Temperature Sensitivity of the Threshold Current for 1.3-\$mu{hbox {m}}\$ Double Quantum-Well GalnNAs–GaAs Lasers. IEEE Journal of Quantum Electronics, 2008, 44, 607-616.	1.0	24
81	High-speed VCSELs for short reach communication. Semiconductor Science and Technology, 2011, 26, 014017.	1.0	24
82	Investigation of 60 Gb/s 4-PAM Using an 850 nm VCSEL and Multimode Fiber. Journal of Lightwave Technology, 2016, 34, 3825-3836.	2.7	24
83	Enabling VCSEL-on-silicon nitride photonic integrated circuits with micro-transfer-printing. Optica, 2021, 8, 1573.	4.8	24
84	Direct Chemical Vapor Deposition of Large-Area Carbon Thin Films on Gallium Nitride for Transparent Electrodes: A First Attempt. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 494-501.	1.4	23
85	Verticalâ€Cavity Siliconâ€Integrated Laser with Inâ€Plane Waveguide Emission at 850Ânm. Laser and Photonics Reviews, 2018, 12, 1700206.	4.4	23
86	Optically induced excitonic electroabsorption in a periodically δâ€doped InGaAs/GaAs multiple quantum well structure. Applied Physics Letters, 1991, 59, 1946-1948.	1.5	22
87	Optically addressed asymmetric Fabry–Perot modulator. Applied Physics Letters, 1991, 59, 3099-3101.	1.5	21
88	Integrated MEMS-Tunable VCSELs Using a Self-Aligned Reflow Process. IEEE Journal of Quantum Electronics, 2012, 48, 144-152.	1.0	20
89	Impact of Device Parameters on Thermal Performance of High-Speed Oxide-Confined 850-nm VCSELs. IEEE Journal of Quantum Electronics, 2012, 48, 17-26.	1.0	20
90	Small-feature-size fan-out kinoform etched in GaAs. Applied Optics, 1996, 35, 801.	2.1	19

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91	Investigation of high-efficiency surface-emitting lasers with blazed grating outcouplers. IEEE Journal of Quantum Electronics, 1996, 32, 1596-1605.	1.0	19
92	Optimization of a Broadband Gain Element for a Widely Tunable High-Power Semiconductor Disk Laser. IEEE Photonics Technology Letters, 2010, 22, 978-980.	1.3	19
93	Impact of Damping on 50 Gbps 4-PAM Modulation of 25G Class VCSELs. Journal of Lightwave Technology, 2017, 35, 4203-4209.	2.7	19
94	Incoupling waveguide holograms for simultaneous focusing into multiple arbitrary positions. Applied Optics, 1999, 38, 5738.	2.1	18
95	High-Speed 850Ânm Quasi-Single-Mode VCSELs for Extended-Reach Optical Interconnects. Journal of Optical Communications and Networking, 2013, 5, 686.	3.3	18
96	48.7-Gb/s 4-PAM Transmission Over 200 m of High Bandwidth MMF Using an 850-nm VCSEL. IEEE Photonics Technology Letters, 2015, 27, 1799-1801.	1.3	18
97	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
98	High efficiency surface emitting lasers using blazed grating outcouplers. Applied Physics Letters, 1995, 67, 3685-3687.	1.5	17
99	Reducing the spectral width of high speed oxide confined VCSELs using an integrated mode filter. Proceedings of SPIE, 2012, , .	0.8	17
100	Modulation bandwidth of GaAs/AlGaAs single quantum well lasers operating at the second quantized state. Applied Physics Letters, 1989, 54, 884-886.	1.5	16
101	Temperature stability of intersubband transitions in AlN/GaN quantum wells. Applied Physics Letters, 2010, 97, 043507.	1.5	16
102	Pseudomorphic InyGa1â^'yAs/GaAs/AlxGa1â^'xAs single quantum well surfaceâ€emitting lasers with integrated 45° beam deflectors. Applied Physics Letters, 1991, 58, 7-9.	1.5	15
103	Diffraction loss in long-wavelength buried tunnel junction VCSELs analyzed with a hybrid coupled-cavity transfer-matrix model. Optics Express, 2008, 16, 20789.	1.7	15
104	Direct measurement of the spectral reflectance of OP-SDL gain elements under optical pumping. Optics Express, 2011, 19, 16890.	1.7	15
105	High-speed 850 nm VCSELs with 28 GHz modulation bandwidth for short reach communication. Proceedings of SPIE, 2013, , .	0.8	15
106	Highâ€power AlGaAs/GaAs single quantum well surfaceâ€emitting lasers with integrated 45° beam deflectors. Applied Physics Letters, 1990, 57, 2048-2050.	1.5	14
107	Monolithically Integrated Master Oscillator Power Amplifier with Grating Coupler for Collimated Output Beam. Japanese Journal of Applied Physics, 2000, 39, 1503-1507.	0.8	13
108	Input waveguide grating couplers designed for a desired wavelength and polarization response. Applied Optics, 2002, 41, 2818.	2.1	13

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109	20-Gb/s Modulation of Silicon-Integrated Short-Wavelength Hybrid-Cavity VCSELs. IEEE Photonics Technology Letters, 2016, 28, 856-859.	1.3	13
110	Multifunctional grating couplers for bidirectional incoupling into planar waveguides. IEEE Photonics Technology Letters, 2000, 12, 314-316.	1.3	12
111	Si ₃ N ₄ photonic integration platform at 1 Âμm for optical interconnects. Optics Express, 2020, 28, 13019.	1.7	12
112	Dependence of output coupling efficiency on detuning in surface grating output couplers. Optics Letters, 1995, 20, 180.	1.7	11
113	Multifunctional gratings for surface-emitting lasers: design and implementation. Applied Optics, 2003, 42, 4847.	2.1	11
114	Error-Free 100Gbps PAM-4 Transmission over 100m Wideband Fiber using 850nm VCSELs., 2017, , .		11
115	Selective Disordering of InGaAs Strained Quantum Well by Rapid Thermal Annealing with SiO2Caps of Different Thicknesses for Photonic Integration. Japanese Journal of Applied Physics, 2000, 39, 5914-5915.	0.8	10
116	FOCUS ON ADVANCED SEMICONDUCTOR HETEROSTRUCTURES FOR OPTOELECTRONICS. New Journal of Physics, 2009, 11, 125012.	1.2	10
117	Spectral engineering of semiconductor Fabry-Perot laser cavities in the weakly and strongly perturbed regimes. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 118.	0.9	10
118	Full characterization of a high-power semiconductor disk laser beam with simultaneous capture of optimally sized focus and farfield. Applied Optics, 2011, 50, 1640.	2.1	10
119	Waveguides for nitride based quantum cascade lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2357-2359.	0.8	10
120	Energy Efficiency of VCSELs in the Context of Short-Range Optical Links. IEEE Photonics Technology Letters, 2015, 27, 1749-1752.	1.3	10
121	Fabrication of ultrahigh quality vertical facets in GaAs using pattern corrected electron beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1992, 10, 2243.	1.6	9
122	Observation of stable cylindrical modes in electrically pumped circular grating-coupled surface-emitting lasers. Applied Optics, 2000, 39, 1946.	2.1	9
123	Spatiotemporal Turn-On Dynamics of Grating Relief VCSELs. IEEE Journal of Quantum Electronics, 2007, 43, 1227-1234.	1.0	9
124	High-speed VCSELs and VCSEL arrays for single- and multi-core fiber interconnects. Proceedings of SPIE, $2015, , .$	0.8	9
125	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
126	Effects of feedback from collimating, focusing, and spot-array generating outcoupler gratings in surface-emitting semiconductor lasers. Optics Letters, 2002, 27, 574.	1.7	8

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127	Fabrication and characterization of diffractive optical elements in InP for monolithic integration with surface-emitting components. Applied Optics, 2000, 39, 398.	2.1	7
128	Experimental comparison of modulation formats in IM/DD links. Optics Express, 2011, 19, 9881.	1.7	7
129	Higher speed VCSELs by photon lifetime reduction. Proceedings of SPIE, 2011, , .	0.8	7
130	VCSEL design and integration for high-capacity optical interconnects. Proceedings of SPIE, 2017, , .	0.8	7
131	Widely tunable high-speed bulk-micromachined short-wavelength MEMS-VCSEL. , 2010, , .		6
132	Investigation of Si and O Donor Impurities in Unintentionally Doped MBE-Grown GaN on SiC(0001) Substrate. Journal of Electronic Materials, 2017, 46, 4898-4902.	1.0	6
133	Precise setting of micro-cavity resonance wavelength by dry etching. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	0.6	6
134	Large-Signal Equivalent Circuit for Datacom VCSELs. Journal of Lightwave Technology, 2021, 39, 3225-3236.	2.7	6
135	Intersymbol Interference Penalties for OOK and 4-PAM in Short-range Optical Communications. , 2013, , .		6
136	32 Gb/s Transmission Experiments Using High Speed 850 nm VCSELs. , 2009, , .		6
137	Semiconductor laser with curved deep-etched distributed Bragg reflectors supporting a planar Gaussian mode. Optics Letters, 2000, 25, 108.	1.7	5
138	Broad-area and MOPA lasers with integrated grating components for beam shaping and novel functions. , $2003, \ldots$		5
139	Crosstalk Characteristics and Performance of VCSEL Array for Multicore Fiber Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 429-435.	1.9	5
140	The Future of VCSELs: Dynamics and Speed Limitations. , 2020, , .		5
141	70+Gb/s VCSEL-Based Multimode Fiber Links. , 2016, , .		4
142	Long-wavelength infrared spectroscopy of an asymmetrically structuredGa0.6Al0.4As/GaAs superlattice. Physical Review B, 1991, 43, 9320-9323.	1.1	3
143	Monolithic integration of lasers and passive elements using selective QW disordering by rapid thermal annealing with SiO2 caps of different thicknesses. Electronics and Communications in Japan, 2004, 87, 34-42.	0.2	3
144	High-speed low-current-density 850 nm VCSELs. Proceedings of SPIE, 2010, , .	0.8	3

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145	Advances in VCSELs for communication and sensing. , 2010, , .		3
146	Integration of GaAs-based VCSEL array on SiN platform with HCG reflectors for WDM applications. , 2015, , .		3
147	Sensitivity improvements in an 850 nm VCSEL transmitter using a one-tap pre-emphasis electronic filter. , 2015, , .		3
148	VCSEL Wavelength Setting by Intra-Cavity Phase Tuning — Numerical Analysis and Experimental Verification. IEEE Journal of Quantum Electronics, 2021, 57, 1-7.	1.0	3
149	Miniature Hologram on Optical Waveguide. Optics and Photonics News, 1997, 8, 33.	0.4	2
150	Diffractive optics at the surface of light-emitting/receiving semiconductor components. Journal of Modern Optics, 2000, 47, 2455-2466.	0.6	2
151	Optically pumped VECSEL operating at 1550 nm. , 2004, , .		2
152	Realization of spectrally engineered semiconductor Fabry-Perot lasers with narrow geometrical tolerances. Journal of Applied Physics, 2011, 109, 093112.	1.1	2
153	Impact of photon lifetime on thermal rollover in 850-nm high-speed VCSELs. Proceedings of SPIE, 2012, ,	0.8	2
154	Stepâ€flow growth of GaN(0001) on 4Hâ€SiC(0001) by plasmaâ€assisted molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2498-2502.	0.8	2
155	Optoelectronics Enabled Dense Patch Antenna Array for Future 5G Cellular Applications. , 2017, , .		2
156	Design and Fabrication of AlN/GaN Heterostructures for Intersubband Technology. Japanese Journal of Applied Physics, 2012, 51, 01AG07.	0.8	2
157	Integration of 150 Gbps/fiber optical engines based on multicore fibers and 6-channel VCSELs and PDs. Proceedings of SPIE, 2016, , .	0.8	2
158	Ultrafast IR detector response in high Tc superconducting thin films. Physica Scripta, 1991, 44, 105-107.	1.2	1
159	Single mode 1.3 μm InGaAs VCSELs for access network applications. , 2008, , .		1
160	High-speed 850-nm VCSELs for 40-Gb/s transmission. Proceedings of SPIE, 2010, , .	0.8	1
161	Design and Fabrication of AlN/GaN Heterostructures for Intersubband Technology. Japanese Journal of Applied Physics, 2012, 51, 01AG07.	0.8	1
162	ZnO/AlN Clad Waveguides for AlGaN-Based Quantum Cascade Lasers. Japanese Journal of Applied Physics, 2013, 52, 054001.	0.8	1

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163	Impact of forward error correction on energy consumption of VCSEL-based transmitters. , 2015, , .		1
164	Dynamic properties of silicon-integrated short-wavelength hybrid-cavity VCSEL., 2016,,.		1
165	Hybrid vertical-cavity laser integration on silicon. , 2017, , .		1
166	Large-Signal Circuit Model for Datacom VCSELs. , 2018, , .		1
167	Waveguide input grating couplers for simultaneous coupling into the TE and TM mode. , 2000, , .		1
168	Diffractive solutions in integrated optics?. , 2000, , .		1
169	Progress in Diffractive Integrated Optics. , 2002, , .		1
170	Monolithic Multi-Wavelength VCSEL Arrays with Uniform Performance by Intra-Cavity Phase Tuning. , 2021, , .		1
171	Integrated Distributed Bragg Reflector Laser with Grating Coupler for Divergent Spherical Wave Emission. Japanese Journal of Applied Physics, 2000, 39, 124-125.	0.8	0
172	A monolithically integrated InGaAs-AlGaAs master oscillator power amplifier with grating outcoupler. Electronics and Communications in Japan, 2001, 84, 61-70.	0.2	0
173	Method for Measuring Reflectance of Semiconductor Disk Laser Gain Element Under Optical Pump Excitation. , 2011, , .		0
174	Integrated MEMS-tunable VCSELs for reconfigurable optical interconnects. , 2012, , .		0
175	22 Gb/s error-free data transmission beyond 1 km of multi-mode fiber using 850 nm VCSELs. , 2013, , .		0
176	Impact of Damping on Large Signal VCSEL Dynamics. , 2014, , .		0
177	High-speed optical interconnects with 850nm VCSELS and advanced modulation formats. Proceedings of SPIE, 2017, , .	0.8	0
178	Power Efficient Modulation Formats for Error-Free VeSEL MMF Links., 2018,,.		0
179	Noise Performance of Single-Mode VCSELs: Dependence on Current Confinement and Optical Loss. IEEE Journal of Quantum Electronics, 2020, 56, 1-9.	1.0	O