Connie J Chang-Hasnain

List of Publications by Year
in descending order

422	12,257	34105	32842
papers	citations	52 h-index	100 g-index

427	427	427	6108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A surface-emitting laser incorporating a high-index-contrast subwavelength grating. Nature Photonics, 2007, 1, 119-122.	31.4	537
2	Nanolasers grown on silicon. Nature Photonics, 2011, 5, 170-175.	31.4	469
3	High-contrast gratings for integrated optoelectronics. Advances in Optics and Photonics, 2012, 4, 379.	25.5	443
4	Slow-light optical buffers: capabilities and fundamental limitations. Journal of Lightwave Technology, 2005, 23, 4046-4066.	4.6	438
5	Ultrabroadband Mirror Using Low-Index Cladded Subwavelength Grating. IEEE Photonics Technology Letters, 2004, 16, 518-520.	2.5	388
6	Dynamic, polarization, and transverse mode characteristics of vertical cavity surface emitting lasers. IEEE Journal of Quantum Electronics, 1991, 27, 1402-1409.	1.9	369
7	Tunable VCSEL. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 978-987.	2.9	346
8	Slow light in semiconductor quantum wells. Optics Letters, 2004, 29, 2291.	3.3	291
9	Broad-Band Mirror (1.12â€“1.62<tex>mu</tex>m) Using a Subwavelength Grating. IEEE Photonics Technology Letters, 2004, 16, 1676-1678.	2.5	270
10	Theoretical analysis of subwavelength high contrast grating reflectors. Optics Express, 2010, 18, 16973.	3.4	270
11	Critical diameter for III-V nanowires grown on lattice-mismatched substrates. Applied Physics Letters, 2007, 90, 043115.	3.3	211
12	Planar high-numerical-aperture low-loss focusing reflectors and lenses using subwavelength high contrast gratings. Optics Express, 2010, 18, 12606.	3.4	202
13	A nanoelectromechanical tunable laser. Nature Photonics, 2008, 2, 180-184.	31.4	198
14	Strong optical injection-locked semiconductor lasers demonstrating > 100-GHz resonance frequencies and 80-GHz intrinsic bandwidths. Optics Express, 2008, 16, 6609.	3.4	176
15	Multiple wavelength tunable surface-emitting laser arrays. IEEE Journal of Quantum Electronics, 1991, 27, 1368-1376.	1.9	169
16	Injection locking of VCSELs. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1386-1393.	2.9	148
17	Transverse mode characteristics of vertical cavity surfaceâ€emitting lasers. Applied Physics Letters, 1990, 57, 218-220.	3.3	142
18	Flexible photonic metastructures for tunable coloration. Optica, 2015, 2, 255.	9.3	140

#	Article	IF	Citations
19	Surface-normal emission of a high-Q resonator using a subwavelength high-contrast grating. Optics Express, 2008, 16, 17282.	3.4	126
20	Physics of near-wavelength high contrast gratings. Optics Express, 2012, 20, 10888.	3.4	126
21	High-Index-Contrast Grating (HCG) and Its Applications in Optoelectronic Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1485-1499.	2.9	119
22	Recent advances in high-contrast metastructures, metasurfaces, and photonic crystals. Advances in Optics and Photonics, 2018, 10, 180.	25.5	119
23	Slow and Fast Light in Semiconductor Quantum-Well and Quantum-Dot Devices. Journal of Lightwave Technology, 2006, 24, 4642-4654.	4.6	118
24	GaAs micromachined widely tunable Fabry-Perot filters. Electronics Letters, 1995, 31, 228-229.	1.0	117
25	Tunable micromachined vertical cavity surface emitting laser. Electronics Letters, 1995, 31, 1671-1672.	1.0	115
26	Octave bandwidth photonic fishnet-achromatic-metalens. Nature Communications, 2020, 11, 3205.	12.8	108
27	Microwave performance of optically injection-locked VCSELs. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 788-796.	4.6	104
28	Atomically sharp catalyst-free wurtzite GaAsâˆ•AlGaAs nanoneedles grown on silicon. Applied Physics Letters, 2008, 93, 023116.	3.3	103
29	1550 nm high contrast grating VCSEL. Optics Express, 2010, 18, 15461.	3.4	97
30	GaAs-Based Nanoneedle Light Emitting Diode and Avalanche Photodiode Monolithically Integrated on a Silicon Substrate. Nano Letters, 2011, 11, 385-390.	9.1	97
31	Room temperature slow light in a quantum-well waveguide via coherent population oscillation. Optics Express, 2005, 13, 9909.	3.4	95
32	Slow light using semiconductor quantum dots. Journal of Physics Condensed Matter, 2004, 16, S3727-S3735.	1.8	89
33	Top-emitting micromechanical VCSEL with a 31.6-nm tuning range. IEEE Photonics Technology Letters, 1998, 10, 18-20.	2.5	84
34	Long-Wavelength VCSEL Using High-Contrast Grating. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1701311-1701311.	2.9	84
35	High-Contrast Grating VCSELs. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 869-878.	2.9	82
36	High-contrast gratings as a new platform for integrated optoelectronics. Semiconductor Science and Technology, 2011, 26, 014043.	2.0	79

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37	High power with high efficiency in a narrow singleâ€lobed beam from a diode laser array in an external cavity. Applied Physics Letters, 1987, 50, 1465-1467.	3.3	78
38	Tunable ultraslow light in vertical-cavity surface-emitting laser amplifier. Optics Express, 2005, 13, 7899.	3.4	75
39	Matrix Fabryâ€“Perot resonance mechanism in high-contrast gratings. Optics Letters, 2011, 36, 1704.	3.3	71
40	Verticalâ€cavity surfaceâ€emitting InGaAs/GaAs lasers with planar lateral definition. Applied Physics Letters, 1990, 56, 2384-2386.	3.3	70
41	A novel ultra-low loss hollow-core waveguide using subwavelength high-contrast gratings. Optics Express, 2009, 17, 1508.	3.4	70
42	Heterogeneously integrated long-wavelength VCSEL using silicon high contrast grating on an SOI substrate. Optics Express, 2015, 23, 2512.	3.4	67
43	Optical phased array using high contrast gratings for two dimensional beamforming and beamsteering. Optics Express, 2013, 21, 12238.	3.4	66
44	Novel cascaded injection-locked 1.55-Î¼m VCSELs with 66 GHz modulation bandwidth. Optics Express, 2007, 15, 14810.	3.4	63
45	Monolithically integrated multi-wavelength VCSEL arrays using high-contrast gratings. Optics Express, 2010, 18, 694.	3.4	61
46	Growth mechanisms and crystallographic structure of InP nanowires on lattice-mismatched substrates. Journal of Applied Physics, 2008, 104, 044313.	2.5	59
47	50-GHz optically injection-locked 1.55-/spl mu/m VCSELs. IEEE Photonics Technology Letters, 2006, 18, 367-369.	2.5	58
48	Matrix addressable vertical cavity surface emitting laser array. Electronics Letters, 1991, 27, 437.	1.0	57
49	Nanophotonic integrated circuits from nanoresonators grown on silicon. Nature Communications, 2014, 5, 4325.	12.8	57
50	Widely and continuously tunable micromachined resonant cavity detector with wavelength tracking. IEEE Photonics Technology Letters, 1996, 8, 98-100.	2.5	56
51	Optoelectronic Oscillators Using Direct-Modulated Semiconductor Lasers Under Strong Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 572-577.	2.9	56
52	Optical beamsteering using an 8 Ã— 8 MEMS phased array with closed-loop interferometric phase control. Optics Express, 2013, 21, 2807.	3.4	56
53	Wavelength-Swept VCSELs. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-16.	2.9	54
54	Nano electro-mechanical optoelectronic tunable VCSEL. Optics Express, 2007, 15, 1222.	3.4	53

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55	Unconventional Growth Mechanism for Monolithic Integration of IIIâ€“V on Silicon. ACS Nano, 2013, 7, 100-107.	14.6	53
56	Wavelengthâ€selectable laser emission from a multistripe array grating integrated cavity laser. Applied Physics Letters, 1992, 61, 2750-2752.	3.3	52
57	Single-mode, passive antiguide vertical cavity surface emitting laser. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 629-637.	2.9	52
58	Second-harmonic generation from a single wurtzite GaAs nanoneedle. Applied Physics Letters, 2010, 96, 051110.	3.3	52
59	Broadband Modulation Performance of 100-GHz EO Polymer MZMs. Journal of Lightwave Technology, 2012, 30, 3647-3652.	4.6	51
60	Low threshold buried heterostructure vertical cavity surface emitting laser. Applied Physics Letters, 1993, 63, 1307-1309.	3.3	50
61	Large Fabrication Tolerance for VCSELs Using High-Contrast Grating. IEEE Photonics Technology Letters, 2008, 20, 434-436.	2.5	50
62	High-contrast grating resonators for label-free detection of disease biomarkers. Scientific Reports, 2016, 6, 27482.	3.3	50
63	Improved Semiconductor-Laser Dynamics From Induced Population Pulsation. IEEE Journal of Quantum Electronics, 2006, 42, 552-562.	1.9	49
64	Tunable VCSEL with ultra-thin high contrast grating for high-speed tuning. Optics Express, 2008, 16, 14221.	3.4	49
65	High speed optical phased array using high contrast grating all-pass filters. Optics Express, 2014, 22, 20038.	3.4	49
66	Ultraslow light (<200mâˆ•s) propagation in a semiconductor nanostructure. Applied Physics Letters, 2005, 87, 171102.	3.3	48
67	Slow light in semiconductor heterostructures. Journal Physics D: Applied Physics, 2007, 40, R93-R107.	2.8	48
68	Study of long-wavelength VCSEL-VCSEL injection locking for 2.5-Gb/s transmission. IEEE Photonics Technology Letters, 2002, 14, 1635-1637.	2.5	46
69	Multistripe array grating integrated cavity (MAGIC) laser: a new semiconductor laser for WDM applications. Electronics Letters, 1992, 28, 1805.	1.0	46
70	Very high efficiency optical coupler for silicon nanophotonic waveguide and single mode optical fiber. Optics Express, 2017, 25, 18462.	3.4	45
71	Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths. Optica, 2017, 4, 717.	9.3	45
72	Monolithic high-contrast metastructure for beam-shaping VCSELs. Optica, 2018, 5, 10.	9.3	45

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73	22-Gb/s Long Wavelength VCSELs. Optics Express, 2009, 17, 17547.	3.4	44
74	Long-Wavelength High-Contrast Grating Vertical-Cavity Surface-Emitting Laser. IEEE Photonics Journal, 2010, 2, 415-422.	2.0	44
75	Tailoring the Optical Characteristics of Microsized InP Nanoneedles Directly Grown on Silicon. Nano Letters, 2014, 14, 183-190.	9.1	44
76	High performance micromechanical tunable vertical cavity surface emitting lasers. Electronics Letters, 1996, 32, 1888.	1.0	43
77	THz-bandwidth tunable slow light in semiconductor optical amplifiers. Optics Express, 2007, 15, 747.	3.4	42
78	Single mode high-contrast subwavelength grating vertical cavity surface emitting lasers. Applied Physics Letters, 2008, 92, 171108.	3.3	42
79	Optics and Photonics: Key Enabling Technologies. Proceedings of the IEEE, 2012, 100, 1604-1643.	21.3	42
80	Optical properties of InP nanowires on Si substrates with varied synthesis parameters. Applied Physics Letters, 2008, 92, 013121.	3.3	41
81	Monolithic 2D-VCSEL array with >2 W CW and >5 W pulsed output power. Electronics Letters, 1998, 34, 2132.	1.0	40
82	Nonequilibrium model for semiconductor laser modulation response. IEEE Journal of Quantum Electronics, 2002, 38, 402-409.	1.9	40
83	A 32 Ã— 32 optical phased array using polysilicon sub-wavelength high-contrast-grating mirrors. Optics Express, 2014, 22, 19029.	3.4	40
84	Surface-normal electro-optic spatial light modulator using graphene integrated on a high-contrast grating resonator. Optics Express, 2016, 24, 26035.	3.4	39
85	Diffractionâ€limited emission from a diode laser array in an apertured gradedâ€index lens external cavity. Applied Physics Letters, 1986, 49, 614-616.	3.3	38
86	Slow and superluminal light in semiconductor optical amplifiers. Electronics Letters, 2005, 41, 922.	1.0	38
87	Fabrication and design of an integrable subwavelength ultrabroadband dielectric mirror. Applied Physics Letters, 2006, 88, 031102.	3.3	38
88	Bandwidth Enhancement by Master Modulation of Optical Injection-Locked Lasers. Journal of Lightwave Technology, 2008, 26, 2584-2593.	4.6	38
89	Core-shell InGaAs/GaAs quantum well nanoneedles grown on silicon with silicon-transparent emission. Optics Express, 2009, 17, 7831.	3.4	38
90	Photoluminescence properties of InAs nanowires grown on GaAs and Si substrates. Nanotechnology, 2010, 21, 335705.	2.6	38

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91	2-D WDM optical interconnections using multiple-wavelength VCSEL's for simultaneous and reconfigurable communication among many planes. IEEE Photonics Technology Letters, 1993, 5, 838-841.	2.5	37
92	Experimental demonstration of slow and superluminal light in semiconductor optical amplifiers. Optics Express, 2006, 14, 12968.	3.4	37
93	Size effect of high contrast gratings in VCSELs. Optics Express, 2009, 17, 24002.	3.4	37
94	Nanolasers grown on silicon-based MOSFETs. Optics Express, 2012, 20, 12171.	3.4	36
95	Spatial mode structure of broadâ€area semiconductor quantum well lasers. Applied Physics Letters, 1989, 54, 205-207.	3.3	35
96	Widely tunable torsional optical filter. IEEE Photonics Technology Letters, 2002, 14, 819-821.	2.5	35
97	Performance of a Multi-Gb/s 60 GHz Radio Over Fiber System Employing a Directly Modulated Optically Injection-Locked VCSEL. Journal of Lightwave Technology, 2010, 28, 2436-2444.	4.6	35
98	High-quality InP nanoneedles grown on silicon. Applied Physics Letters, 2013, 102, .	3.3	34
99	Multiple-wavelength vertical-cavity surface-emitting laser arrays with a record wavelength span. IEEE Photonics Technology Letters, 1996, 8, 4-6.	2.5	33
100	Enhancement of dynamic range in 1.55-Î¼m VCSELs using injection locking. IEEE Photonics Technology Letters, 2003, 15, 498-500.	2.5	33
101	GaAs nanoneedles grown on sapphire. Applied Physics Letters, 2011, 98, 123101.	3.3	33
102	Site-Controlled Growth of Monolithic InGaAs/InP Quantum Well Nanopillar Lasers on Silicon. Nano Letters, 2017, 17, 2697-2702.	9.1	33
103	Self-pulsating and bistable VCSEL with controllable intracavity quantum-well saturable absorber. Electronics Letters, 1997, 33, 1708.	1.0	33
104	Greatly enhanced modulation response of injection-locked multimode VCSELs. Optics Express, 2008, 16, 21582.	3.4	31
105	Low loss hollow-core waveguide on a silicon substrate. Nanophotonics, 2012, 1, 23-29.	6.0	31
106	Laser optomechanics. Scientific Reports, 2015, 5, 13700.	3.3	31
107	Multigigabit/s operations of 16-wavelength vertical-cavity surface-emitting laser array. IEEE Photonics Technology Letters, 1991, 3, 863-865.	2.5	30
108	Rastered, uniformly separated wavelengths emitted from a twoâ€dimensional verticalâ€cavity surfaceâ€emitting laser array. Applied Physics Letters, 1991, 58, 31-33.	3.3	29

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109	Demonstration of piezoelectric actuated GaAs-based MEMS tunable VCSEL. IEEE Photonics Technology Letters, 2006, 18, 1197-1199.	2.5	29
110	Widely tunable 1.5 [micro sign]m micromechanical optical filter using AlOx/AlGaAs DBR. Electronics Letters, 1997, 33, 1702.	1.0	28
111	Beyond-Bandwidth Electrical Pulse Modulation of a TO-Can Packaged VCSEL for 10 Gbit/s Injection-Locked NRZ-to-RZ Transmission. Journal of Lightwave Technology, 2011, 29, 830-841.	4.6	28
112	Optically Injection-Locked 1.55-mum VCSELs as Upstream Transmitters in WDM-PONs. IEEE Photonics Technology Letters, 2006, 18, 2371-2373.	2.5	27
113	Widely tunable 1060-nm VCSEL with high-contrast grating mirror. Optics Express, 2017, 25, 11844.	3.4	27
114	Characteristics of the offâ€centered apertured mirror external cavity laser array. Applied Physics Letters, 1989, 54, 484-486.	3.3	26
115	Elastic energy relaxation and critical thickness for plastic deformation in the core-shell InGaAs/GaAs nanopillars. Journal of Applied Physics, 2013, 113, .	2.5	26
116	Nanopillar Lasers Directly Grown on Silicon with Heterostructure Surface Passivation. ACS Nano, 2014, 8, 6833-6839.	14.6	26
117	Ultracompact Position-Controlled InP Nanopillar LEDs on Silicon with Bright Electroluminescence at Telecommunication Wavelengths. ACS Photonics, 2017, 4, 695-702.	6.6	26
118	MEMS-tunable VCSELs using 2D high-contrast gratings. Optics Letters, 2017, 42, 823.	3.3	26
119	Ultra-sensitive immunoassay using VCSEL detection system. Electronics Letters, 2004, 40, 649.	1.0	24
120	Compact Label-Free Biosensor Using VCSEL-Based Measurement System. IEEE Photonics Technology Letters, 2004, 16, 1712-1714.	2.5	24
121	Novel modulated-master injection-locked 1.55-Âµm VCSELs. Optics Express, 2006, 14, 10500.	3.4	24
122	Monolithic Integrated Piezoelectric MEMS-Tunable VCSEL. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 374-380.	2.9	24
123	Experimental and theoretical study of wide hysteresis cycles in 1550 nm VCSELs under optical injection. Optics Express, 2013, 21, 3125.	3.4	24
124	Illumination Angle Insensitive Single Indium Phosphide Tapered Nanopillar Solar Cell. Nano Letters, 2015, 15, 4961-4967.	9.1	24
125	Theory and design of two-dimensional high-contrast-grating phased arrays. Optics Express, 2015, 23, 24508.	3.4	24
126	Tunable electroabsorption in gallium arsenide doping superlattices. Applied Physics Letters, 1987, 50, 915-917.	3.3	22

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127	Polarization control of vertical-cavity surface-emitting lasers by electro-optic birefringence. Applied Physics Letters, 2000, 76, 813-815.	3.3	22
128	A New Amplifier Model for Resonance Enhancement of Optically Injection-Locked Lasers. IEEE Photonics Technology Letters, 2008, 20, 395-397.	2.5	22
129	Greatly increased fiber transmission distance with an optically injection-locked vertical-cavity surface-emitting laser. Optics Express, 2009, 17, 13785.	3.4	22
130	Ultrahigh Responsivity-Bandwidth Product in a Compact InP Nanopillar Phototransistor Directly Grown on Silicon. Scientific Reports, 2016, 6, 33368.	3.3	22
131	Modulation of a vertical-cavity surface-emitting laser using an intracavity quantum-well absorber. IEEE Photonics Technology Letters, 1998, 10, 319-321.	2.5	21
132	Low Birefringence and 2-D Optical Confinement of Hollow Waveguide With Distributed Bragg Reflector and High-Index-Contrast Grating. IEEE Photonics Journal, 2009, 1, 135-143.	2.0	21
133	Temperature dependence of light-current characteristics of 0.98-/spl mu/m Al-free strained-quantum-well lasers. IEEE Photonics Technology Letters, 1994, 6, 1303-1305.	2.5	20
134	VCSEL Optoelectronic Biosensor for Detection of Infectious Diseases. IEEE Photonics Technology Letters, 2008, 20, 443-445.	2.5	20
135	Monolithic multiple wavelength surface emitting laser arrays. Journal of Lightwave Technology, 1991, 9, 1665-1673.	4.6	19
136	High performance and novel effects of micromechanical tunable vertical-cavity lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 691-697.	2.9	19
137	Single Crystalline InGaAs Nanopillar Grown on Polysilicon with Dimensions beyond the Substrate Grain Size Limit. Nano Letters, 2013, 13, 5931-5937.	9.1	19
138	High Brightness InP Micropillars Grown on Silicon with Fermi Level Splitting Larger than 1 eV. Nano Letters, 2014, 14, 3235-3240.	9.1	19
139	Effect of facet roughness on etchedâ€facet semiconductor laser diodes. Applied Physics Letters, 1996, 68, 1598-1600.	3.3	18
140	Inducing electron spin coherence in GaAs quantum well waveguides: Spin coherence without spin precession. Physical Review B, 2005, 72, .	3.2	18
141	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. Nano Letters, 2015, 15, 7189-7198.	9.1	18
142	Multiple-wavelength vertical cavity laser arrays on patterned substrates. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 624-628.	2.9	17
143	The physics of negative differential resistance of an intracavity voltage-controlled absorber in a vertical-cavity surface-emitting laser. Applied Physics Letters, 1998, 73, 1796-1798.	3.3	17
144	Injection-Locked 1.55-<tex>$muhboxm$</tex>Tunable VCSEL for Uncooled WDM Transmitter Applications. IEEE Photonics Technology Letters, 2004, 16, 888-890.	2.5	17

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145	Surface-normal coupled four-wave mixing in a high contrast gratings resonator. Optics Express, 2015, 23, 29565.	3.4	17
146	A novel all-optical self-routed wavelength-addressable network (SWANET). IEEE Photonics Technology Letters, 1995, 7, 1066-1068.	2.5	16
147	Bandwidth enhancement of injection-locked distributed reflector lasers with wirelike active regions. Optics Express, 2010, 18, 16370.	3.4	16
148	Metastable Growth of Pure Wurtzite InGaAs Microstructures. Nano Letters, 2014, 14, 4757-4762.	9.1	16
149	Low threshold 0.98 Î¼m aluminium-free strained-quantum-well InGaAs/InGaAsP/InGaP lasers. Electronics Letters, 1993, 29, 1-2.	1.0	15
150	Beam steerable semiconductor lasers with large steering range and resolvable spots. Electronics Letters, 1994, 30, 2034-2035.	1.0	15
151	Transverse mode selection with a passive antiguide region in vertical cavity surface emitting lasers. IEEE Photonics Technology Letters, 1994, 6, 924-926.	2.5	15
152	Collimating diode laser beams from a large-area VCSEL-array using microlens array. IEEE Photonics Technology Letters, 1999, 11, 506-508.	2.5	15
153	Thermal oxidation of AlgaAs: modeling and process control. IEEE Journal of Quantum Electronics, 2003, 39, 577-585.	1.9	15
154	Long Distance Single-mode Fiber Transmission of Multimode VCSELs by Injection Locking. Optics Express, 2010, 18, 20552.	3.4	15
155	Use of a multiwavelength surface-emitting laser array in a four-channel wavelength-division-multiplexed system experiment. IEEE Photonics Technology Letters, 1991, 3, 268-269.	2.5	14
156	Polarisation and modal behaviour of low threshold oxide and airgap confined vertical cavity lasers. Electronics Letters, 1995, 31, 2014-2015.	1.0	14
157	A proposal of broad-bandwidth vertical-cavity laser amplifier. IEEE Photonics Technology Letters, 1995, 7, 1240-1242.	2.5	14
158	Vertical-cavity lasers with an intracavity resonant detector. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 416-421.	2.9	14
159	Multiple-wavelength vertical-cavity surface-emitting laser arrays. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 422-428.	2.9	14
160	Compact, integrated optical disk readout head using a novel bistable vertical-cavity surface-emitting laser. IEEE Photonics Technology Letters, 1999, 11, 245-247.	2.5	14
161	50 km error-free 10 Gbit/s WDM transmission using directly modulated long-wavelength VCSELs. Electronics Letters, 2000, 36, 1793.	1.0	14
162	Transmission performance of a 1.5-Î¼m 2.5-Gb/s directly modulated tunable VCSEL. IEEE Photonics Technology Letters, 2003, 15, 599-601.	2.5	14

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163	Chirp-enhanced fast light in semiconductor optical amplifiers. Optics Express, 2007, 15, 17631.	3.4	14
164	Reflection-mode optical injection locking. Optics Express, 2010, 18, 20887.	3.4	14
165	Breakthroughs in Photonics 2013: Advances in Nanoantennas. IEEE Photonics Journal, 2014, 6, 1-6.	2.0	14
166	Integrated external cavity quantum well laser array using single epitaxial growth on a patterned substrate. Applied Physics Letters, 1990, 56, 429-431.	3.3	13
167	Parasitics and design considerations on oxide-implant VCSELs. IEEE Photonics Technology Letters, 2001, 13, 1274-1276.	2.5	13
168	Dispersion properties of high-contrast grating hollow-core waveguides. Optics Letters, 2010, 35, 4099.	3.3	13
169	Spatial mode structure of index-guided broad-area quantum-well lasers. IEEE Journal of Quantum Electronics, 1990, 26, 1713-1716.	1.9	12
170	Buried heterostructure 0.98 Î¼m InGaAs/InGaAsP/InGaP lasers. Applied Physics Letters, 1993, 63, 2183-2185.	3.3	12
171	Slow light using spin coherence and V-type electromagnetically induced transparency in [110] strained quantum wells. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 849.	2.1	12
172	IIIâ€“V Compound Semiconductor Nanopillars Monolithically Integrated to Silicon Photonics. ACS Photonics, 2017, 4, 1021-1025.	6.6	12
173	Effect of operating electric power on the dynamic behavior of quantum well verticalâ€cavity surfaceâ€emitting lasers. Applied Physics Letters, 1991, 58, 1247-1249.	3.3	11
174	High performance continuously tunable top-emitting vertical cavity laser with 20 nm wavelength range. Electronics Letters, 1997, 33, 1051.	1.0	11
175	A novel 4 x 8 single-mode independently addressable oxide-isolated VCSEL array. IEEE Photonics Technology Letters, 1997, 9, 1196-1198.	2.5	11
176	High-yield processing and single-mode operation of passive antiguide region vertical-cavity lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 429-434.	2.9	11
177	Electrically tunable fast light at THz bandwidth using cascaded semiconductor optical amplifiers. Optics Express, 2007, 15, 15863.	3.4	11
178	Optical phase modulation based on directly modulated reflection-mode OIL-VCSEL. Optics Express, 2013, 21, 22114.	3.4	11
179	Accurate molecular beam epitaxial growth of vertical-cavity surface-emitting laser using diode laser reflectometry. IEEE Photonics Technology Letters, 1995, 7, 971-973.	2.5	10
180	Compact 2D laser beam scanner with fan laser array and Si micromachined microscanner. Electronics Letters, 1997, 33, 1143.	1.0	10

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181	Dynamic behavior and applications of a three-contact vertical-cavity surface-emitting laser. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 512-519.	2.9	10
182	Buried selectively-oxidized AlGaAs structures grown on nonplanar substrates. Optics Express, 2002, 10, 1003.	3.4	10
183	Variable optical buffer using slow light in semiconductor nanostructures. , 2004, , .		10
184	Design of a monolithic piezoelectrically actuated microelectromechanical tunable vertical-cavity surface-emitting laser. Optics Letters, 2005, 30, 896.	3.3	10
185	Rayleigh backscattering and extinction ratio study of optically injection-locked 1.55â€…[micro sign]m VCSELs. Electronics Letters, 2007, 43, 182.	1.0	10
186	Upstream vertical cavity surface-emitting lasers for fault monitoring and localization in WDM passive optical networks. Optics Communications, 2008, 281, 2218-2226.	2.1	10
187	Valence Band Splitting in Wurtzite InGaAs Nanoneedles Studied by Photoluminescence Excitation Spectroscopy. ACS Nano, 2014, 8, 11440-11446.	14.6	10
188	High speed operation of hybrid CMOS vertical cavity surface emitting laser array. Electronics Letters, 1991, 27, 1189.	1.0	9
189	Micromechanical tunable optical filters: general design rules for wavelengths from near-IR up to 10Î¼m. Sensors and Actuators A: Physical, 2005, 119, 57-62.	4.1	9
190	Electron Spin Polarization Induced by Linearly Polarized Light in a (110) GaAs Quantum-Well Waveguide. Physical Review Letters, 2009, 102, 206604.	7.8	9
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