# Connie J Chang-Hasnain

## List of Publications by Citations

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310
papers

9,160
citations

45
h-index

85
g-index

427
ext. papers

44
ext. citations

45
h-index

45
L-index

#	Paper	IF	Citations
310	Nanolasers grown on silicon. <i>Nature Photonics</i> , <b>2011</b> , 5, 170-175	33.9	387
309	A surface-emitting laser incorporating a high-index-contrast subwavelength grating. <i>Nature Photonics</i> , <b>2007</b> , 1, 119-122	33.9	387
308	Slow-light optical buffers: capabilities and fundamental limitations. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 4046-4066	4	312
307	. IEEE Journal of Quantum Electronics, <b>1991</b> , 27, 1402-1409	2	311
306	High-contrast gratings for integrated optoelectronics. <i>Advances in Optics and Photonics</i> , <b>2012</b> , 4, 379	16.7	300
305	Ultrabroadband mirror using low-index cladded subwavelength grating. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 518-520	2.2	286
304	Tunable VCSEL. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 978-987	3.8	247
303	Slow light in semiconductor quantum wells. <i>Optics Letters</i> , <b>2004</b> , 29, 2291-3	3	232
302	Theoretical analysis of subwavelength high contrast grating reflectors. <i>Optics Express</i> , <b>2010</b> , 18, 16973	- <b>8§</b> 3	205
301	Broad-band mirror (1.12-1.62 th) using a subwavelength grating. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1676-1678	2.2	205
300	Critical diameter for III-V nanowires grown on lattice-mismatched substrates. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 043115	3.4	186
299	Planar high-numerical-aperture low-loss focusing reflectors and lenses using subwavelength high contrast gratings. <i>Optics Express</i> , <b>2010</b> , 18, 12606-14	3.3	160
298	A nanoelectromechanical tunable laser. <i>Nature Photonics</i> , <b>2008</b> , 2, 180-184	33.9	137
297	Strong optical injection-locked semiconductor lasers demonstrating > 100-GHz resonance frequencies and 80-GHz intrinsic bandwidths. <i>Optics Express</i> , <b>2008</b> , 16, 6609-18	3.3	123
296	. IEEE Journal of Quantum Electronics, <b>1991</b> , 27, 1368-1376	2	122
295	Flexible photonic metastructures for tunable coloration. <i>Optica</i> , <b>2015</b> , 2, 255	8.6	110
294	Transverse mode characteristics of vertical cavity surface-emitting lasers. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 218-220	3.4	108

293	Surface-normal emission of a high-Q resonator using a subwavelength high-contrast grating. <i>Optics Express</i> , <b>2008</b> , 16, 17282-7	3.3	98
292	High-Index-Contrast Grating (HCG) and Its Applications in Optoelectronic Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2009</b> , 15, 1485-1499	3.8	93
291	Injection locking of VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 1386-1393	3.8	92
<b>2</b> 90	Physics of near-wavelength high contrast gratings. <i>Optics Express</i> , <b>2012</b> , 20, 10888-95	3.3	91
289	Atomically sharp catalyst-free wurtzite GaAsAlGaAs nanoneedles grown on silicon. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 023116	3.4	89
288	GaAs micromachined widely tunable Fabry-Perot filters. <i>Electronics Letters</i> , <b>1995</b> , 31, 228-229	1.1	85
287	GaAs-based nanoneedle light emitting diode and avalanche photodiode monolithically integrated on a silicon substrate. <i>Nano Letters</i> , <b>2011</b> , 11, 385-90	11.5	81
286	Tunable micromachined vertical cavity surface emitting laser. <i>Electronics Letters</i> , <b>1995</b> , 31, 1671-1672	1.1	78
285	Slow and Fast Light in Semiconductor Quantum-Well and Quantum-Dot Devices. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 4642-4654	4	77
284	1550 nm high contrast grating VCSEL. Optics Express, <b>2010</b> , 18, 15461-6	3.3	72
284	1550 nm high contrast grating VCSEL. <i>Optics Express</i> , <b>2010</b> , 18, 15461-6  Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3		7 <sup>2</sup>
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283	Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3.  Room temperature slow light in a quantum-well waveguide via coherent population oscillation.	73.5	72
283	Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3  Room temperature slow light in a quantum-well waveguide via coherent population oscillation. <i>Optics Express</i> , <b>2005</b> , 13, 9909-15  Microwave performance of optically injection-locked VCSELs. <i>IEEE Transactions on Microwave</i>	7 <b>3.</b> \$	7 <sup>2</sup>
283	Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3  Room temperature slow light in a quantum-well waveguide via coherent population oscillation. <i>Optics Express</i> , <b>2005</b> , 13, 9909-15  Microwave performance of optically injection-locked VCSELs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 788-796  Recent advances in high-contrast metastructures, metasurfaces, and photonic crystals. <i>Advances in</i>	73.\$ 3.3 4.1	7 <sup>2</sup> 7 <sup>1</sup>
283 282 281 280	Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3  Room temperature slow light in a quantum-well waveguide via coherent population oscillation. <i>Optics Express</i> , <b>2005</b> , 13, 9909-15  Microwave performance of optically injection-locked VCSELs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 788-796  Recent advances in high-contrast metastructures, metasurfaces, and photonic crystals. <i>Advances in Optics and Photonics</i> , <b>2018</b> , 10, 180  Top-emitting micromechanical VCSEL with a 31.6-nm tuning range. <i>IEEE Photonics Technology</i>	73.\$ 3.3 4.1 16.7	7 <sup>2</sup> 7 <sup>1</sup> 69
283 282 281 280 279	Slow light using semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3727-S3  Room temperature slow light in a quantum-well waveguide via coherent population oscillation. <i>Optics Express</i> , <b>2005</b> , 13, 9909-15  Microwave performance of optically injection-locked VCSELs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 788-796  Recent advances in high-contrast metastructures, metasurfaces, and photonic crystals. <i>Advances in Optics and Photonics</i> , <b>2018</b> , 10, 180  Top-emitting micromechanical VCSEL with a 31.6-nm tuning range. <i>IEEE Photonics Technology Letters</i> , <b>1998</b> , 10, 18-20  High-contrast gratings as a new platform for integrated optoelectronics. <i>Semiconductor Science and</i>	73.8 3.3 4.1 16.7 2.2	72 71 71 69 64

275	A novel ultra-low loss hollow-core waveguide using subwavelength high-contrast gratings. <i>Optics Express</i> , <b>2009</b> , 17, 1508-17	3.3	54
274	Growth mechanisms and crystallographic structure of InP nanowires on lattice-mismatched substrates. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 044313	2.5	53
273	Vertical-cavity surface-emitting InGaAs/GaAs lasers with planar lateral definition. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2384-2386	3.4	53
272	. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1701311-1701311	3.8	52
271	Monolithically integrated multi-wavelength VCSEL arrays using high-contrast gratings. <i>Optics Express</i> , <b>2010</b> , 18, 694-9	3.3	50
270	Tunable ultraslow light in vertical-cavity surface-emitting laser amplifier. <i>Optics Express</i> , <b>2005</b> , 13, 7899	-304	50
269	Matrix Fabry-Perot resonance mechanism in high-contrast gratings. <i>Optics Letters</i> , <b>2011</b> , 36, 1704-6	3	49
268	Heterogeneously integrated long-wavelength VCSEL using silicon high contrast grating on an SOI substrate. <i>Optics Express</i> , <b>2015</b> , 23, 2512-23	3.3	48
267	Octave bandwidth photonic fishnet-achromatic-metalens. <i>Nature Communications</i> , <b>2020</b> , 11, 3205	17.4	46
266	Optical phased array using high contrast gratings for two dimensional beamforming and beamsteering. <i>Optics Express</i> , <b>2013</b> , 21, 12238-48	3.3	46
265	Novel cascaded injection-locked 1.55-mum VCSELs with 66 GHz modulation bandwidth. <i>Optics Express</i> , <b>2007</b> , 15, 14810-6	3.3	45
264	Unconventional growth mechanism for monolithic integration of III-V on silicon. ACS Nano, 2013, 7, 100	- <b>7</b> 16.7	44
263	Second-harmonic generation from a single wurtzite GaAs nanoneedle. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 051110	3.4	44
262	Widely and continuously tunable micromachined resonant cavity detector with wavelength tracking. <i>IEEE Photonics Technology Letters</i> , <b>1996</b> , 8, 98-100	2.2	44
261	Matrix addressable vertical cavity surface emitting laser array. <i>Electronics Letters</i> , <b>1991</b> , 27, 437	1.1	44
260	Optoelectronic Oscillators Using Direct-Modulated Semiconductor Lasers Under Strong Optical Injection. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2009</b> , 15, 572-577	3.8	42
259	Optical beamsteering using an 8 B MEMS phased array with closed-loop interferometric phase control. <i>Optics Express</i> , <b>2013</b> , 21, 2807-15	3.3	41
258	Tailoring the optical characteristics of microsized InP nanoneedles directly grown on silicon. <i>Nano Letters</i> , <b>2014</b> , 14, 183-90	11.5	40

257	. Journal of Lightwave Technology, <b>2012</b> , 30, 3647-3652	4	40
256	Slow light in semiconductor heterostructures. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, R93-R107	3	40
255	50-GHz optically injection-locked 1.55-/spl mu/m VCSELs. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 367-369	2.2	40
254	Low threshold buried heterostructure vertical cavity surface emitting laser. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 1307-1309	3.4	40
253	Nanophotonic integrated circuits from nanoresonators grown on silicon. <i>Nature Communications</i> , <b>2014</b> , 5, 4325	17.4	39
252	Long-Wavelength High-Contrast Grating Vertical-Cavity Surface-Emitting Laser. <i>IEEE Photonics Journal</i> , <b>2010</b> , 2, 415-422	1.8	39
251	. IEEE Journal of Selected Topics in Quantum Electronics, <b>1995</b> , 1, 629-637	3.8	39
250	Large Fabrication Tolerance for VCSELs Using High-Contrast Grating. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 434-436	2.2	38
249	Nano electro-mechanical optoelectronic tunable VCSEL. Optics Express, 2007, 15, 1222-7	3.3	38
248	Ultraslow light (. Applied Physics Letters, <b>2005</b> , 87, 171102	3.4	38
248 247	Ultraslow light (. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 171102  Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 2750-2752	3.4	38
<u> </u>	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.	· ·	
247	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.  Applied Physics Letters, 1992, 61, 2750-2752  Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent	3.4	38
247 246	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.  Applied Physics Letters, 1992, 61, 2750-2752  Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths. Optica, 2017, 4, 717  Improved semiconductor-laser dynamics from induced population pulsation. IEEE Journal of	3.4	38
<ul><li>247</li><li>246</li><li>245</li></ul>	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.  Applied Physics Letters, 1992, 61, 2750-2752  Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths. Optica, 2017, 4, 717  Improved semiconductor-laser dynamics from induced population pulsation. IEEE Journal of Quantum Electronics, 2006, 42, 552-562	3.4	38 37 37
247 246 245	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.  Applied Physics Letters, 1992, 61, 2750-2752  Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths. Optica, 2017, 4, 717  Improved semiconductor-laser dynamics from induced population pulsation. IEEE Journal of Quantum Electronics, 2006, 42, 552-562  Tunable VCSEL with ultra-thin high contrast grating for high-speed tuning. Optics Express, 2008, 16, 14.  Study of long-wavelength VCSEL-VCSEL injection locking for 2.5-Gb/s transmission. IEEE Photonics	3.4 8.6 2 223136	38 37 37 36
247 246 245 244	Wavelength-selectable laser emission from a multistripe array grating integrated cavity laser.  Applied Physics Letters, 1992, 61, 2750-2752  Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths. Optica, 2017, 4, 717  Improved semiconductor-laser dynamics from induced population pulsation. IEEE Journal of Quantum Electronics, 2006, 42, 552-562  Tunable VCSEL with ultra-thin high contrast grating for high-speed tuning. Optics Express, 2008, 16, 14.  Study of long-wavelength VCSEL-VCSEL injection locking for 2.5-Gb/s transmission. IEEE Photonics Technology Letters, 2002, 14, 1635-1637  Multistripe array grating integrated cavity (MAGIC) laser: a new semiconductor laser for WDM	3·4 8.6 2 22/3/3/6	38 37 37 36 36

239	Single mode high-contrast subwavelength grating vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 171108	3.4	35
238	Core-shell InGaAs/GaAs quantum well nanoneedles grown on silicon with silicon-transparent emission. <i>Optics Express</i> , <b>2009</b> , 17, 7831-6	3.3	34
237	High speed optical phased array using high contrast grating all-pass filters. <i>Optics Express</i> , <b>2014</b> , 22, 200	038544	33
236	Fabrication and design of an integrable subwavelength ultrabroadband dielectric mirror. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 031102	3.4	33
235	. Proceedings of the IEEE, <b>2012</b> , 100, 1604-1643	14.3	32
234	22-Gb/s Long Wavelength VCSELs. Optics Express, <b>2009</b> , 17, 17547-54	3.3	32
233	Nonequilibrium model for semiconductor laser modulation response. <i>IEEE Journal of Quantum Electronics</i> , <b>2002</b> , 38, 402-409	2	32
232	High-contrast grating resonators for label-free detection of disease biomarkers. <i>Scientific Reports</i> , <b>2016</b> , 6, 27482	4.9	32
231	GaAs nanoneedles grown on sapphire. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 123101	3.4	31
230	Size effect of high contrast gratings in VCSELs. <i>Optics Express</i> , <b>2009</b> , 17, 24002-7	3.3	31
229	Bandwidth Enhancement by Master Modulation of Optical Injection-Locked Lasers. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 2584-2593	4	31
228	High performance micromechanical tunable vertical cavity surface emitting lasers. <i>Electronics Letters</i> , <b>1996</b> , 32, 1888	1.1	31
227	Diffraction-limited emission from a diode laser array in an apertured graded-index lens external cavity. <i>Applied Physics Letters</i> , <b>1986</b> , 49, 614-616	3.4	31
226	Wavelength-Swept VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 1-16	3.8	30
225	Very high efficiency optical coupler for silicon nanophotonic waveguide and single mode optical fiber. <i>Optics Express</i> , <b>2017</b> , 25, 18462-18473	3.3	30
224	A 32 B2 optical phased array using polysilicon sub-wavelength high-contrast-grating mirrors. <i>Optics Express</i> , <b>2014</b> , 22, 19029-39	3.3	30
223	Widely tunable torsional optical filter. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 819-821	2.2	30
222	Surface-normal electro-optic spatial light modulator using graphene integrated on a high-contrast grating resonator. <i>Optics Express</i> , <b>2016</b> , 24, 26035-26043	3.3	30

221	Monolithic high-contrast metastructure for beam-shaping VCSELs. <i>Optica</i> , <b>2018</b> , 5, 10	8.6	28
220	High-quality InP nanoneedles grown on silicon. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 012115	3.4	28
219	Performance of a Multi-Gb/s 60 GHz Radio Over Fiber System Employing a Directly Modulated Optically Injection-Locked VCSEL. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 2436-2444	4	28
218	Nanolasers grown on silicon-based MOSFETs. <i>Optics Express</i> , <b>2012</b> , 20, 12171-6	3.3	28
217	Site-Controlled Growth of Monolithic InGaAs/InP Quantum Well Nanopillar Lasers on Silicon. <i>Nano Letters</i> , <b>2017</b> , 17, 2697-2702	11.5	27
216	Monolithic 2D-VCSEL array with >2 W CW and >5 W pulsed output power. <i>Electronics Letters</i> , <b>1998</b> , 34, 2132	1.1	27
215	. IEEE Photonics Technology Letters, <b>1993</b> , 5, 838-841	2.2	27
214	Beyond-Bandwidth Electrical Pulse Modulation of a TO-Can Packaged VCSEL for 10 Gbit/s Injection-Locked NRZ-to-RZ Transmission. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 830-841	4	26
213	Low loss hollow-core waveguide on a silicon substrate. <i>Nanophotonics</i> , <b>2012</b> , 1, 23-29	6.3	26
212	Multiple-wavelength vertical-cavity surface-emitting laser arrays with a record wavelength span. <i>IEEE Photonics Technology Letters</i> , <b>1996</b> , 8, 4-6	2.2	26
211	Laser optomechanics. <i>Scientific Reports</i> , <b>2015</b> , 5, 13700	4.9	25
210	Rastered, uniformly separated wavelengths emitted from a two-dimensional vertical-cavity surface-emitting laser array. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 31-33	3.4	25
209	Spatial mode structure of broad-area semiconductor quantum well lasers. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 205-207	3.4	25
208	THz-bandwidth tunable slow light in semiconductor optical amplifiers. <i>Optics Express</i> , <b>2007</b> , 15, 747-53	3.3	24
207	Experimental and theoretical study of wide hysteresis cycles in 1550 nm VCSELs under optical injection. <i>Optics Express</i> , <b>2013</b> , 21, 3125-32	3.3	23
206	Experimental demonstration of slow and superluminal light in semiconductor optical amplifiers. <i>Optics Express</i> , <b>2006</b> , 14, 12968-75	3.3	23
205	Illumination Angle Insensitive Single Indium Phosphide Tapered Nanopillar Solar Cell. <i>Nano Letters</i> , <b>2015</b> , 15, 4961-7	11.5	22
204	Widely tunable 1.5 [micro sign]m micromechanical optical filter using AlOx/AlGaAs DBR. <i>Electronics Letters</i> , <b>1997</b> , 33, 1702	1.1	22

203	Greatly enhanced modulation response of injection-locked multimode VCSELs. <i>Optics Express</i> , <b>2008</b> , 16, 21582-6	3.3	21
202	Enhancement of dynamic range in 1.55-th VCSELs using injection locking. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 498-500	2.2	21
201	Polarization control of vertical-cavity surface-emitting lasers by electro-optic birefringence. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 813-815	3.4	21
200	Ultracompact Position-Controlled InP Nanopillar LEDs on Silicon with Bright Electroluminescence at Telecommunication Wavelengths. <i>ACS Photonics</i> , <b>2017</b> , 4, 695-702	6.3	20
199	Theory and design of two-dimensional high-contrast-grating phased arrays. <i>Optics Express</i> , <b>2015</b> , 23, 24508-24	3.3	20
198	Elastic energy relaxation and critical thickness for plastic deformation in the core-shell InGaAs/GaAs nanopillars. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 104311	2.5	20
197	Demonstration of piezoelectric actuated GaAs-based MEMS tunable VCSEL. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1197-1199	2.2	20
196	Optically Injection-Locked 1.55-\$mu\$ m VCSELs as Upstream Transmitters in WDM-PONs. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2371-2373	2.2	20
195	Slow and superluminal light in semiconductor optical amplifiers. <i>Electronics Letters</i> , <b>2005</b> , 41, 922	1.1	20
194	Characteristics of the off-centered apertured mirror external cavity laser array. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 484-486	3.4	20
193	Tunable electroabsorption in gallium arsenide doping superlattices. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 915-917	3.4	20
192	Ultrahigh Responsivity-Bandwidth Product in a Compact InP Nanopillar Phototransistor Directly Grown on Silicon. <i>Scientific Reports</i> , <b>2016</b> , 6, 33368	4.9	19
191	Nanopillar lasers directly grown on silicon with heterostructure surface passivation. <i>ACS Nano</i> , <b>2014</b> , 8, 6833-9	16.7	19
190	Monolithic Integrated Piezoelectric MEMS-Tunable VCSEL. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 374-380	3.8	19
189	Ultra-sensitive immunoassay using VCSEL detection system. <i>Electronics Letters</i> , <b>2004</b> , 40, 649	1.1	19
188	Self-pulsating and bistable VCSEL with controllable intracavity quantum-well saturable absorber. <i>Electronics Letters</i> , <b>1997</b> , 33, 1708	1.1	19
187	Low Birefringence and 2-D Optical Confinement of Hollow Waveguide With Distributed Bragg Reflector and High-Index-Contrast Grating. <i>IEEE Photonics Journal</i> , <b>2009</b> , 1, 135-143	1.8	18
186	A New Amplifier Model for Resonance Enhancement of Optically Injection-Locked Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 395-397	2.2	18

### (1999-2004)

185	Compact label-free biosensor using VCSEL-based measurement system. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1712-1714	2.2	18
184	Modulation of a vertical-cavity surface-emitting laser using an intracavity quantum-well absorber. <i>IEEE Photonics Technology Letters</i> , <b>1998</b> , 10, 319-321	2.2	18
183	. IEEE Photonics Technology Letters, <b>1991</b> , 3, 863-865	2.2	18
182	High brightness InP micropillars grown on silicon with Fermi level splitting larger than 1 eV. <i>Nano Letters</i> , <b>2014</b> , 14, 3235-40	11.5	17
181	Widely tunable 1060-nm VCSEL with high-contrast grating mirror. <i>Optics Express</i> , <b>2017</b> , 25, 11844-11854	43.3	17
180	Single crystalline InGaAs nanopillar grown on polysilicon with dimensions beyond the substrate grain size limit. <i>Nano Letters</i> , <b>2013</b> , 13, 5931-7	11.5	17
179	Greatly increased fiber transmission distance with an optically injection-locked vertical-cavity surface-emitting laser. <i>Optics Express</i> , <b>2009</b> , 17, 13785-91	3.3	17
178	High performance and novel effects of micromechanical tunable vertical-cavity lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1997</b> , 3, 691-697	3.8	17
177	VCSEL Optoelectronic Biosensor for Detection of Infectious Diseases. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 443-445	2.2	17
176	. Journal of Lightwave Technology, <b>1991</b> , 9, 1665-1673	4	17
176	. Journal of Lightwave Technology, 1991, 9, 1665-1673  Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. Nano Letters, 2015, 15, 7189-98	11.5	17 16
<u> </u>	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano</i>	<ul><li>4</li><li>11.5</li><li>11.5</li></ul>	16
175	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano Letters</i> , <b>2015</b> , 15, 7189-98		16
175 174	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano Letters</i> , <b>2015</b> , 15, 7189-98  Metastable growth of pure wurtzite InGaAs microstructures. <i>Nano Letters</i> , <b>2014</b> , 14, 4757-62  Effect of facet roughness on etched-facet semiconductor laser diodes. <i>Applied Physics Letters</i> , <b>1996</b>	11.5	16
175 174 173	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano Letters</i> , <b>2015</b> , 15, 7189-98  Metastable growth of pure wurtzite InGaAs microstructures. <i>Nano Letters</i> , <b>2014</b> , 14, 4757-62  Effect of facet roughness on etched-facet semiconductor laser diodes. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 1598-1600	3.4	16 16
175 174 173	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano Letters</i> , <b>2015</b> , 15, 7189-98  Metastable growth of pure wurtzite InGaAs microstructures. <i>Nano Letters</i> , <b>2014</b> , 14, 4757-62  Effect of facet roughness on etched-facet semiconductor laser diodes. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 1598-1600  MEMS-tunable VCSELs using 2D high-contrast gratings. <i>Optics Letters</i> , <b>2017</b> , 42, 823-826	3·4 3	16 16 16
175 174 173 172	Wurtzite-Phased InP Micropillars Grown on Silicon with Low Surface Recombination Velocity. <i>Nano Letters</i> , <b>2015</b> , 15, 7189-98  Metastable growth of pure wurtzite InGaAs microstructures. <i>Nano Letters</i> , <b>2014</b> , 14, 4757-62  Effect of facet roughness on etched-facet semiconductor laser diodes. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 1598-1600  MEMS-tunable VCSELs using 2D high-contrast gratings. <i>Optics Letters</i> , <b>2017</b> , 42, 823-826  Novel modulated-master injection-locked 1.55-microm VCSELs. <i>Optics Express</i> , <b>2006</b> , 14, 10500-7  The physics of negative differential resistance of an intracavity voltage-controlled absorber in a	3.4 3 3.3	16 16 16 16

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159	. IEEE Photonics Technology Letters, <b>1995</b> , 7, 1066-1068	2.2	12
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156	Integrated external cavity quantum well laser array using single epitaxial growth on a patterned substrate. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 429-431	3.4	12
155	Bandwidth enhancement of injection-locked distributed reflector lasers with wirelike active regions. <i>Optics Express</i> , <b>2010</b> , 18, 16370-8	3.3	11
154	Reflection-mode optical injection locking. <i>Optics Express</i> , <b>2010</b> , 18, 20887-93	3.3	11
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149	Transmission performance of a 1.5-th 2.5-Gb/s directly modulated tunable VCSEL. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 599-601	2.2	10
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147	Buried heterostructure 0.98 th InGaAs/InGaAsP/InGaP lasers. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 2183-218	3 <b>5</b> .4	10
146	Long distance single-mode fiber transmission of multimode VCSELs by injection locking. <i>Optics Express</i> , <b>2010</b> , 18, 20552-7	3.3	9
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133	Electrically tunable fast light at THz bandwidth using cascaded semiconductor optical amplifiers. <i>Optics Express</i> , <b>2007</b> , 15, 15863-7	3.3	8
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112	Tunable Optical Equalizer Using Diffraction Grating Filters. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1590-1592	2.2	6
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110	Optically Injection-Locked Optoelectronic Oscillators with Low RF Threshold Gain 2007,		6
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83	Al-based thermal oxides in vertical cavity surface emitting lasers 1997,		3
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79	Tunable absorption and electroluminescence in GaAs doping superlattices. <i>Superlattices and Microstructures</i> , <b>1987</b> , 3, 277-282	2.8	3
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76	High speed, ultra-compact spectrometer using high contrast grating swept-wavelength detector <b>2013</b> ,		2
75	High quality InGaP micropillars directly grown on silicon <b>2013</b> ,		2
74	Low-loss slow light inside high contrast grating waveguide <b>2012</b> ,		2
73	Slow-light high contrast metastructure hollow-core waveguides <b>2012</b> ,		2
72	High Reflectivity Subwavelength Metal Grating for VCSEL Applications <b>2011</b> ,		2
71	High contrast gratings for integrated optoelectronics <b>2010</b> ,		2
70	Multiwavelength HCG-VCSEL array <b>2010</b> ,		2
69	All-semiconductor nanolasers on silicon <b>2010</b> ,		2
68	Optical phased array for far field beam steering with varied HCG <b>2012</b> ,		2
67	Celebrating 25 Years of the IEEE/OSA Journal of Lightwave Technology. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 990-993	4	2
66	80-GHz intrinsic 3-dB bandwidth of directly modulated semiconductor lasers under optical injection locking <b>2008</b> ,		2
65	Analytical solution and design guideline for highly reflective subwavelength gratings 2008,		2
64	Electronically and optically controllable vertical-cavity surface-emitting laser arrays for optical interconnect and signal processing applications (Invited Paper) <b>1992</b> ,		2
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54	Widely tunable 1060-nm high-contrast grating VCSEL <b>2016</b> ,		1
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41	Double-Resonant Enhancement of Surface Enhanced Raman Scattering Using High Contrast Grating Resonators <b>2011</b> ,	1
40	Novel 2D High-Contrast Grating Hollow-Core Waveguide <b>2009</b> ,	1
39	Single Crystalline GaAs Nanoneedles Grown on 46% Lattice-Mismatched Sapphire with Bright Luminescence <b>2010</b> ,	1
38	Angle-etched facet laser arrays (fan laser arrays). <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1997</b> , 3, 684-690	1
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34	107-GHz Resonance Frequency of 1.55-th VCSELs under ultra-high optical injection locking <b>2008</b> ,	1
33	A novel high-Q resonator using high contrast subwavelength grating 2008,	1
32	Transverse Mode Control in High-Contrast Subwavelength Grating VCSEL <b>2007</b> ,	1
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20	Surface-normal Coupled Four-wave Mixing in a High Contrast Grating Resonator <b>2015</b> ,		1
19	Room-Temperature InGaAs/InP Quantum-Well-in-Nanopillar Laser Directly Grown on Silicon 2016,		1
18	Efficient Electroluminescence from III/V Quantum-Well-in-Nanopillar Light Emitting Diodes Directly Grown on Silicon <b>2016</b> ,		1
17	Ultra-compact Optical Coupler and Splitter using High-Contrast Grating Hollow-Core Waveguide <b>2010</b> ,		1
16	Hybrid microdisk laser on a silicon platform using lateral-field optoelectronic tweezers assembly <b>2008</b> ,		1
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