

# Stephane Calvez

## List of Publications by Citations

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101  
papers

1,586  
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21  
h-index

36  
g-index

153  
ext. papers

1,868  
ext. citations

2.4  
avg, IF

3.89  
L-index

#	Paper	IF	Citations
101	Semiconductor disk lasers for the generation of visible and ultraviolet radiation. <i>Laser and Photonics Reviews</i> , <b>2009</b> , 3, 407-434	8.3	118
100	0.6 W CW GaInNAs vertical external-cavity surface emitting laser operating at 1.32 [micro sign]m. <i>Electronics Letters</i> , <b>2004</b> , 40, 30	1.1	101
99	High power CW red VECSEL with linearly polarized TEM00 output beam. <i>Optics Express</i> , <b>2005</b> , 13, 77-81	3.3	99
98	0.5-W single transverse-mode operation of an 850-nm diode-pumped surface-emitting semiconductor laser. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 894-896	2.2	91
97	Thermal management in vertical-external-cavity surface-emitting lasers: finite-element analysis of a heatspreader approach. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 148-155	2	80
96	Femtosecond (191 fs) NaY(WO4)2 Tm,Ho-codoped laser at 2060 nm. <i>Optics Letters</i> , <b>2010</b> , 35, 3027-9	3	69
95	Broadly tunable femtosecond mode-locking in a Tm:KYW laser near 2 $\mu$ m. <i>Optics Express</i> , <b>2011</b> , 19, 9995-10000	3.9	58
94	Femtosecond pulse operation of a Tm,Ho-codoped crystalline laser near 2 microm. <i>Optics Letters</i> , <b>2010</b> , 35, 172-4	3	57
93	Femtosecond mode-locked Tm(3+) and Tm(3+)-Ho(3+) doped 2 $\mu$ m glass lasers. <i>Optics Express</i> , <b>2010</b> , 18, 22090-8	3.3	51
92	Passive mode locking of a Tm,Ho:KY(WO4)2 laser around 2 microm. <i>Optics Letters</i> , <b>2009</b> , 34, 2587-9	3	49
91	GaN directional couplers for integrated quantum photonics. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 161119	3.4	46
90	Low-loss 1.3-microm GaInNAs saturable Bragg reflector for high-power picosecond neodymium lasers. <i>Optics Letters</i> , <b>2002</b> , 27, 2124-6	3	46
89	Thermal lens study in diode pumped Ng- and Np-cut Nd:KGd(WO4)2 laser crystals. <i>Optics Express</i> , <b>2009</b> , 17, 23536-43	3.3	40
88	InP/AlGaInP quantum dot semiconductor disk lasers for CW TEM00 emission at 716 - 755 nm. <i>Optics Express</i> , <b>2009</b> , 17, 21782-7	3.3	34
87	Microchip vertical external cavity surface emitting lasers. <i>Electronics Letters</i> , <b>2003</b> , 39, 1324	1.1	34
86	Intracavity diamond heatspreaders in lasers: the effects of birefringence. <i>Optics Express</i> , <b>2006</b> , 14, 9250-60	3.9	32
85	Continuous Tuning and Efficient Intracavity Second-Harmonic Generation in a Semiconductor Disk Laser With an Intracavity Diamond Heatspreader. <i>IEEE Journal of Quantum Electronics</i> , <b>2008</b> , 44, 216-225 <sup>2</sup>		29

84	Diamond-microchip GaInNAs vertical external-cavity surface-emitting laser operating CW at 1315 nm. <i>Electronics Letters</i> , <b>2004</b> , 40, 935	1.1	28
83	1.3 μm GaInNAs optically-pumped vertical cavity semiconductor optical amplifier. <i>Electronics Letters</i> , <b>2003</b> , 39, 100	1.1	28
82	Optimization of an optically pumped 1.3-μm GaInNAs vertical-cavity surface-emitting laser. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 131-133	2.2	23
81	GaInNAs/GaAs Bragg-mirror-based structures for novel 1.3-μm device applications. <i>Journal of Crystal Growth</i> , <b>2004</b> , 268, 457-465	1.6	22
80	Thermal lensing, thermal management and transverse mode control in microchip VECSELS. <i>Applied Physics B: Lasers and Optics</i> , <b>2006</b> , 83, 189-194	1.9	21
79	Microlensed microchip VECSEL. <i>Optics Express</i> , <b>2007</b> , 15, 9341-6	3.3	17
78	Red microchip VECSEL array. <i>Optics Express</i> , <b>2005</b> , 13, 7209-14	3.3	17
77	Large cross-section edge-coupled diamond waveguides. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 564-567	5	16
76	Wavelength-stabilised external-cavity laser diode using cavity resonator integrated guided mode filter. <i>Electronics Letters</i> , <b>2012</b> , 48, 1619-1621	1.1	16
75	Spectral narrowing and locking of a vertical-external-cavity surface-emitting laser using an intracavity volume Bragg grating. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1786-1788	2.2	16
74	Diamond Raman Waveguide Lasers: Completely Analytical Design Optimization Incorporating Scattering Losses. <i>IEEE Journal of Quantum Electronics</i> , <b>2011</b> , 47, 1069-1077	2	15
73	Passive Mode-Locking of a Ti : Sapphire Laser by InGaP Quantum-Dot Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 209-211	2.2	15
72	Long-wavelength monolithic GaInNAs vertical-cavity optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 878-883	2	14
71	Thermal Management of Near-Infrared Semiconductor Disk Lasers With AlGaAs Mirrors and Lattice (Mis)Matched Active Regions. <i>IEEE Journal of Quantum Electronics</i> , <b>2012</b> , 48, 345-352	2	13
70	Slow-light in a vertical-cavity semiconductor optical amplifier. <i>Optics Express</i> , <b>2006</b> , 14, 6858-63	3.3	13
69	Cavity-dumping of a semiconductor disk laser for the generation of wavelength-tunable micro-Joule nanosecond pulses. <i>Optics Express</i> , <b>2010</b> , 18, 11933-41	3.3	12
68	Stabilization of a semiconductor disk laser using an intra-cavity high reflectivity grating. <i>Optics Express</i> , <b>2007</b> , 15, 16520-6	3.3	12
67	C-band emission from GaInNAsSb VCSEL on GaAs. <i>Electronics Letters</i> , <b>2006</b> , 42, 29	1.1	11

66	Vertically Coupled Microdisk Resonators Using AlGaAs/AlOx Technology. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 982-985	2.2	10
65	Short-wavelength GaInNAs/GaAs semiconductor disk lasers. <i>Electronics Letters</i> , <b>2008</b> , 44, 1069	1.1	10
64	Comparison of thermal management techniques for semiconductor disk lasers <b>2008</b> ,		9
63	Thermal Management, Structure Design, and Integration Considerations for VECSELs <b>2010</b> , 73-117		8
62	Femtosecond pulse generation around 1500 nm using a GaInNAsSb SESAM. <i>Optics Express</i> , <b>2008</b> , 16, 18739-44	3.3	8
61	Quantum-well intermixing influence on GaInNAs/GaAs quantum-well laser gain: theoretical study. <i>Semiconductor Science and Technology</i> , <b>2008</b> , 23, 095010	1.8	8
60	Tunable single-mode fiber-VCSEL using an intracavity polymer microlens. <i>Optics Letters</i> , <b>2007</b> , 32, 2831-3		8
59	Low-loss GaInNAs saturable Bragg reflector for mode-locking of a femtosecond Cr/sup 4+ / : forsterite-laser. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2292-2294	2.2	8
58	Modelling anisotropic lateral oxidation from circular mesas. <i>Optical Materials Express</i> , <b>2018</b> , 8, 1762	2.6	7
57	Anisotropy in the wet thermal oxidation of AlGaAs: influence of process parameters. <i>Optical Materials Express</i> , <b>2018</b> , 8, 1788	2.6	7
56	Passively Q-switched Pr:YLF laser <b>2011</b> ,		7
55	Optical trapping with "on-demand" two-photon luminescence using Cr:LiSAF laser with optically addressed saturable Bragg reflector. <i>Optics Express</i> , <b>2012</b> , 20, 7066-70	3.3	7
54	Optically-pumped saturable absorber for fast switching between continuous-wave and passively mode-locked regimes of a Nd:YVO4 laser. <i>Optics Express</i> , <b>2009</b> , 17, 5373-8	3.3	7
53	Power-Scaling of Diamond Microlensed Microchip Semiconductor Disk Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 152-154	2.2	7
52	GaInNAs(Sb) surface normal devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 85-92	1.6	7
51	Influence of composition diffusion on the band structures of InGaNAs/GaAs quantum wells investigated by the band-anticrossing model. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 231112	3.4	7
50	Highly-resonant two-polarization transmission guided-mode resonance filter. <i>AIP Advances</i> , <b>2018</b> , 8, 115228	2.5	7
49	Electrically-controlled rapid femtosecond pulse duration switching and continuous picosecond pulse duration tuning in an ultrafast Cr4+:forsterite laser. <i>Optics Express</i> , <b>2012</b> , 20, 18138-44	3.3	6

48	Optically Pumped Saturable Bragg Reflectors: Nonlinear Spectroscopy and Application in Ultrafast Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 1650-1655	2	6
47	Array-Format Microchip Semiconductor Disk Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2008</b> , 44, 1096-1103		6
46	Thermal management in disc lasers: doped-dielectric and semiconductor laser gain media in thin-disc and microchip formats. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 1669-1676	1.1	6
45	High-power vertical external-cavity surface-emitting lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 380-385		6
44	Interband cascade Lasers with AlGaAsSb cladding layers emitting at 3.3 $\mu\text{m}$ . <i>Optics Express</i> , <b>2019</b> , 27, 31425-31434	3-3	6
43	Index and gain dynamics of optically pumped GaInNAs vertical-cavity semiconductor optical amplifiers. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 231115	3-4	5
42	Fiber-tunable dilute-nitride VCSEL. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 3895-3898		5
41	Vertical electro-absorption modulator design and its integration in a VCSEL. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 145101	3	4
40	GaInNAs semiconductor disk lasers as pump sources for Tm <sup>3+</sup> (,Ho <sup>3+</sup> )-doped glass, crystal and fibre lasers <b>2009</b> ,		4
39	High performance 2.2 $\mu\text{m}$ optically-pumped vertical external-cavity surface-emitting laser. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 1677-1683	1.1	4
38	Second-harmonic-generation enhancement in cavity resonator integrated grating filters. <i>Optics Letters</i> , <b>2019</b> , 44, 5198-5201	3	4
37	Coupled mode analysis of micro-disk resonators with an asymmetric-index-profile coupling region <b>2017</b> ,		3
36	Achromatic critically coupled racetrack resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 2343	1.7	3
35	Performance comparison of GaInNAs vertical-cavity semiconductor optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 642-649	2	3
34	1.3- $\mu\text{m}$ GaInNAs surface-normal devices. <i>IEE Proceedings: Optoelectronics</i> , <b>2004</b> , 151, 442-446		3
33	High frequency operation of an integrated electro-absorption modulator onto a vertical-cavity surface-emitting laser. <i>JPhys Photonics</i> , <b>2019</b> , 1, 02LT01	2.5	3
32	Anisotropic lateral oxidation of Al-III $\text{V}$ semiconductors: inverse problem and circular aperture fabrication. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 015014	1.8	3
31	Modeling the Lateral Wet Oxidation of Al <sub>x</sub> Ga <sub>1-x</sub> As into Arbitrary Mesa Geometries. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4-3	2

30	Low-loss buried AlGaAs/AlOx waveguides using a quasi-planar process. <i>Optics Express</i> , <b>2017</b> , 25, 19275-19280	3.3	2
29	Photoluminescence from InGaAs/GaAs quantum well regrown on a buried patterned oxidized AlAs layer. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 061912	3.4	2
28	Semiconductor disk lasers (VECSELs) <b>2013</b> , 341-393		2
27	1.3 $\mu\text{m}$ GaInNAs monolithic vertical-cavity semiconductor optical amplifier		2
26	Oxide-confined VCSELs fabricated with a simple self-aligned process flow. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 125004	1.8	1
25	Thermal Management of Lasers and LEDs Using Diamond <b>2013</b> , 353-384		1
24	GaInNAs(Sb) for solid-state laser engineering <b>2011</b> ,		1
23	1.55- $\mu\text{m}$ tunable doped-fiber vertical-cavity surface emitting laser <b>2009</b> ,		1
22	1213nm semiconductor disk laser pumping of a Tm <sup>3+</sup> -doped tellurite glass laser <b>2008</b> ,		1
21	Characterisation of an InAs quantum dot semiconductor disk laser <b>2008</b> ,		1
20	Tunable red laser emission by intra-cavity frequency-doubling of a GaInNAs VECSEL <b>2007</b> ,		1
19	Corrections to "Thermal Management in Vertical-External-Cavity Surface-Emitting Lasers: Finite-Element Analysis of a Heatspreader Approach" <i>IEEE Journal of Quantum Electronics</i> , <b>2006</b> , 42, 85-85	2	1
18	Resonant wavelength control of a 1.3 $\mu\text{m}$ microcavity by intracavity steam oxidation. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, L12-L15	1.8	1
17	A diamond-microchip GaInNAs VECSEL operating at 1315 nm		1
16	Amplification and laser action in diode-pumped 1.3 $\mu\text{m}$ GaInNAs vertical-cavity structures		1
15	High Power, Continuous Wave Operation of a Vertical External Cavity Surface Emitting Laser at 674nm <b>2005</b> ,		1
14	650MHz -prf-femtosecond Cr <sup>4+</sup> :forsterite laser with dispersion-compensating GaInNAs SESAM <b>2011</b> ,		1
13	3.3 $\mu\text{m}$ interband-cascade resonant-cavity light-emitting diode with narrow spectral emission linewidth. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 125029	1.8	1

12	Dark mode-in-the-box for enhanced second-harmonic generation in corrugated waveguides. <i>Optics Express</i> , <b>2021</b> , 29, 40981	3.3	1
11	Numerical studies on Kerr comb generation in Si <sub>3</sub> N <sub>4</sub> resonators with frequency dependent access coupler properties <b>2019</b> ,		1
10	Thermally-tunable cavity resonator-integrated guided-mode resonance filters. <i>OSA Continuum</i> , <b>2019</b> , 2, 3204	1.4	1
9	. <i>IEEE Journal of Quantum Electronics</i> , <b>2018</b> , 54, 1-8	2	
8	Quantum Confinement Stark Effect of Different Gainnas Quantum Well Structures. <i>Advanced Materials Research</i> , <b>2013</b> , 773, 622-627	0.5	
7	Power-scaling properties of apertured microchip vertical external-cavity surface-emitting lasers. <i>Electronics Letters</i> , <b>2013</b> , 49, 146-148	1.1	
6	Microreflectivity studies of wavelength control in oxidised AlGaAs microcavities. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 102, 317-322	3.1	
5	Photoluminescence characteristics of 1.5- $\mu$ m Ga <sub>1-x</sub> In <sub>x</sub> NyAs <sub>1-y</sub> /GaAs structures grown by molecular beam epitaxy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 9-12	2.6	
4	Numerical study on Kerr frequency comb generation in Si <sub>3</sub> N <sub>4</sub> microresonators with frequency-dependent access coupler properties. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2896	1.7	
3	Engineering the anisotropy of AlAs wet oxidation using silicon implantation. <i>Optical Materials Express</i> , <b>2021</b> , 11, 3600	2.6	
2	Selective wet oxidation of AlAsSb alloys on GaAs. <i>AIP Advances</i> , <b>2021</b> , 11, 125010	1.5	
1	Cavity resonator-integrated guided-mode resonance filters with on-chip electro- and thermo-optic tuning. <i>Optics Express</i> , <b>2022</b> , 30, 16669	3.3	