

# Keith G Wilcox

## List of Publications by Citations

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41  
papers

946  
citations

17  
h-index

30  
g-index

63  
ext. papers

1,259  
ext. citations

3.7  
avg, IF

3.69  
L-index

#	Paper	IF	Citations
41	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. <i>Nature Photonics</i> , <b>2009</b> , 3, 729-731	33.9	132
40	Vertical-external-cavity semiconductor lasers. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, R75-R85	3	121
39	4.35 kW peak power femtosecond pulse mode-locked VECSEL for supercontinuum generation. <i>Optics Express</i> , <b>2013</b> , 21, 1599-605	3.3	94
38	High-power, high repetition rate picosecond and femtosecond sources based on Yb-doped fiber amplification of VECSELs. <i>Optics Express</i> , <b>2006</b> , 14, 9611-6	3.3	67
37	Conical refraction Nd:KGd(WO <sub>4</sub> ) <sub>2</sub> laser. <i>Optics Express</i> , <b>2010</b> , 18, 2753-9	3.3	65
36	Ultrafast optical Stark mode-locked semiconductor laser. <i>Optics Letters</i> , <b>2008</b> , 33, 2797-9	3	51
35	High Peak Power Femtosecond Pulse Passively Mode-Locked Vertical-External-Cavity Surface-Emitting Laser. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1021-1023	2.2	38
34	Comment on SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, 422-423	8.3	29
33	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , <b>2012</b> , 20, 7040-5	3.3	25
32	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , <b>2008</b> , 33, 2125-7	3	24
31	Supercontinuum Generation With GHz Repetition Rate Femtosecond-Pulse Fiber-Amplified VECSELs. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 464-467	2.2	21
30	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 251105	3.4	21
29	Terahertz imaging system based on LT-GaAsSb antenna driven by all-semiconductor femtosecond source. <i>Electronics Letters</i> , <b>2006</b> , 42, 1159	1.1	20
28	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. <i>Optics Express</i> , <b>2010</b> , 18, 21330-41	3.3	19
27	Laser with simultaneous Gaussian and conical refraction outputs. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 99, 619-622	1.9	18
26	Z-scan measurements of the nonlinear refractive index of a pumped semiconductor disk laser gain medium. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 011105	3.4	17
25	Repetition-frequency-tunable mode-locked surface emitting semiconductor laser between 2.78 and 7.87 GHz. <i>Optics Express</i> , <b>2011</b> , 19, 23453-9	3.3	17

24	Timing jitter of 897 MHz optical pulse train from actively stabilised passively modelocked surface-emitting semiconductor laser. <i>Electronics Letters</i> , <b>2006</b> , 42, 159	1.1	17
23	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. <i>Optics Express</i> , <b>2012</b> , 20, 8898-906	3.3	16
22	Active stabilisation and timing jitter characterisation of sub-500 fs pulse passively modelocked VECSEL. <i>Electronics Letters</i> , <b>2008</b> , 44, 1135	1.1	16
21	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 251101	3.4	15
20	Variable repetition frequency femtosecond-pulse surface emitting semiconductor laser. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 131107	3.4	12
19	Photon-pair generation in photonic crystal fibre with a 1.5GHz modelocked VECSEL. <i>Optics Communications</i> , <b>2014</b> , 327, 39-44	2	11
18	Gigahertz pulse source by compression of mode-locked VECSEL pulses coherently broadened in the normal dispersion regime. <i>Optics Express</i> , <b>2014</b> , 22, 12096-101	3.3	11
17	Electrically Controlled Pulse Duration Passively Mode-Locked Cr : Forsterite Laser. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1124-1126	2.2	11
16	. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 1395-1398	2.2	9
15	Ultrafast Vertical-External-Cavity Surface-Emitting Semiconductor Lasers. <i>Semiconductors and Semimetals</i> , <b>2012</b> , 269-300	0.6	9
14	Design of a solar-pumped semiconductor laser. <i>Optica</i> , <b>2015</b> , 2, 56	8.6	8
13	Passively modelocked 832 nm vertical-external-cavity surface-emitting semiconductor laser producing 15.3 ps pulses at 1.9 GHz repetition rate. <i>Electronics Letters</i> , <b>2008</b> , 44, 1469	1.1	7
12	Saturated gain spectrum of VECSELs determined by transient measurement of lasing onset. <i>Optics Express</i> , <b>2014</b> , 22, 6919-24	3.3	6
11	Wetting-Layer-Pumped Continuous-Wave Surface-Emitting Quantum-Dot Laser. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 37-39	2.2	3
10	Numerical simulation of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELs using a modified two-level atom model. <i>Optics Express</i> , <b>2011</b> , 19, 26783-95	3.3	3
9	A wavelength tunable 2-ps pulse VECSEL <b>2012</b> ,	3	
8	169 GHz repetition rate passively harmonically mode-locked VECSEL emitting 265 fs pulses <b>2011</b> ,	2	
7	High peak power femtosecond pulse VECSELs for terahertz time domain spectroscopy <b>2011</b> ,	2	

- 6 Towards VECSEL frequency combs **2013**, 1
- 5 Generation of 200 fs pulses with a short microcavity VECSEL **2013**, 1
- 4 Numerical modelling of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELS **2011**, 1
- 3 Capture and release of carriers in InGaAs/GaAs quantum dots. *Journal of Physics: Conference Series*, **2009**, 193, 012085 0.3 1
- 2 Compact ultrafast lasers based on quantum-dot structures **2009**, 1
- 1 Passively mode-locked 832-nm vertical-external-cavity surface-emitting semiconductor laser producing 15.3-ps pulses at 1.9-GHz repetition rate **2008**, 1