Keith G Wilcox

List of Publications by Year
in descending order

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63 papers	1,329 citations	361413 20 h-index	330143 37 g-index
63 all docs	63 docs citations	63 times ranked	671 citing authors

#	Article	IF	Citations
1	Optimal repetition rate and pulse duration studies for two photon imaging. Proceedings of SPIE, 2017, , .	0.8	1
2	Resonant measurements of nonlinear lensing in a VECSEL gain sample. , 2016, , .		0
3	Thermal management of VECSELs by front surface direct liquid cooling. Proceedings of SPIE, 2016, , .	0.8	0
4	Multiphoton imaging with high peak power VECSELs. , 2016, , .		0
5	Reflection z-scan measurements of the non-linear lens in VECSEL gain structures. Proceedings of SPIE, 2016, , .	0.8	0
6	Nonlinear Lensing in an Unpumped Antiresonant Semiconductor Disk Laser Gain Structure. IEEE Photonics Technology Letters, 2016, 28, 1395-1398.	2.5	13
7	Coherent spectral broadening and compression of the output of a mode-locked VECSEL. Proceedings of SPIE, 2015, , .	0.8	0
8	Z-scan measurements of the nonlinear refractive index of a pumped semiconductor disk laser gain medium. Applied Physics Letters, 2015, 106, .	3.3	28
9	Pumping of VECSELs using high quantum defect and broadband sources. Proceedings of SPIE, 2015, , .	0.8	0
10	Design of a solar-pumped semiconductor laser. Optica, 2015, 2, 56.	9.3	13
11	Saturated gain spectrum of VECSELs determined by transient measurement of lasing onset. Optics Express, 2014, 22, 6919.	3.4	7
12	Gigahertz pulse source by compression of mode-locked VECSEL pulses coherently broadened in the normal dispersion regime. Optics Express, 2014, 22, 12096.	3.4	15
13	Photon-pair generation in photonic crystal fibre with a 1.5GHz modelocked VECSEL. Optics Communications, 2014, 327, 39-44.	2.1	15
14	Femtosecond pulse mode-locked VECSELs. , 2014, , .		0
15	Supercontinuum generation with femtosecond pulse fiber amplified VECSELs. Proceedings of SPIE, 2013, , .	0.8	0
16	Supercontinuum Generation With GHz Repetition Rate Femtosecond-Pulse Fiber-Amplified VECSELs. IEEE Photonics Technology Letters, 2013, 25, 464-467.	2.5	29
17	Comment on SESAM-free mode-locked semiconductor disk laser. Laser and Photonics Reviews, 2013, 7, 422-423.	8.7	38
18	435 kW peak power femtosecond pulse mode-locked VECSEL for supercontinuum generation. Optics Express, 2013, 21, 1599.	3.4	139

#	ARTICLE	IF	CITATIONS
19	Spectral gain and cavity loss characterization of an optically-pumped external-cavity surface-emitting quantum well laser. , 2013, , .		0
20	Effects of cryogenic temperatures on the performance of CW VECSELs. , 2013, , .		0
21	Towards VECSEL frequency combs. , 2013, , .		1
22	Generation of 200 fs pulses with a short microcavity VECSEL. Proceedings of SPIE, 2013, , .	0.8	1
23	A wavelength tunable 2-ps pulse VECSEL. , 2012, , .		4
24	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. Optics Express, 2012, 20, 7040.	3.4	33
25	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. Optics Express, 2012, 20, 8898.	3.4	20
26	Frequency-tuneable ultrashort pulse VECSEL sources. Proceedings of SPIE, 2012, , .	0.8	0
27	Wetting-layer-pumped continuous-wave surface emitting quantum dot laser. Proceedings of SPIE, 2012, , .	0.8	0
28	Femtosecond Semiconductor Laser Emitting High Average Power 175-GHz Pulse Train. , 2012, , .		0
29	Wetting-Layer-Pumped Continuous-Wave Surface-Emitting Quantum-Dot Laser. IEEE Photonics Technology Letters, 2012, 24, 37-39.	2.5	3
30	Ultrafast Vertical-External-Cavity Surface-Emitting Semiconductor Lasers. Semiconductors and Semimetals, 2012, , 269-300.	0.7	15
31	Simulation of metallic nanostructures for emission of THz radiation using the lateral photo-Dember effect. , 2011, , .		0
32	Repetition-frequency-tunable mode-locked surface emitting semiconductor laser between 278 and 787 GHz. Optics Express, 2011, 19, 23453.	3.4	25
33	Numerical simulation of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELs using a modified two-level atom model. Optics Express, 2011, 19, 26783.	3.4	3
34	Numerical modelling of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELs. , 2011, , .		1
35	169 GHz repetition rate passively harmonically mode-locked VECSEL emitting 265 fs pulses. Proceedings of SPIE, 2011, , .	0.8	5
36	Variable repetition frequency femtosecond-pulse surface emitting semiconductor laser. Applied Physics Letters, 2011, 99, 131107.	3.3	19

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37	High peak power femtosecond pulse VECSELs for terahertz time domain spectroscopy. Proceedings of SPIE, 2011, , .	0.8	2
38	Gain Saturation in 60-fs Mode-Locked Semiconductor Laser. , 2010, , .		0
39	Gaussian to Lorentzian Beam Profile Convertor Based on Conical Refraction. , 2010, , .		0
40	Laser with simultaneous Gaussian and conical refraction outputs. Applied Physics B: Lasers and Optics, 2010, 99, 619-622.	2.2	26
41	Mode-locking build-up measurements: probing the mode-locking mechanisms in Vertical-External-Cavity Surface-Emitting Lasers. , 2010, , .		2
42	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. Applied Physics Letters, 2010, 97, .	3.3	23
43	High Peak Power Femtosecond Pulse Passively Mode-Locked Vertical-External-Cavity Surface-Emitting Laser. IEEE Photonics Technology Letters, 2010, 22, 1021-1023.	2.5	49
44	Conical refraction Nd:KGd(WO_4)_2 laser. Optics Express, 2010, 18, 2753.	3.4	86
45	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. Optics Express, 2010, 18, 21330.	3.4	27
46	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. Nature Photonics, 2009, 3, 729-731.	31.4	186
47	Electronically Controlled Pulse Duration Passively Mode-Locked Crâ€‰:â€‰Forsterite Laser. IEEE Photonics Technology Letters, 2009, 21, 1124-1126.	2.5	16
48	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. Applied Physics Letters, 2009, 94, 251105.	3.3	25
49	Capture and release of carriers in InGaAs/GaAs quantum dots. Journal of Physics: Conference Series, 2009, 193, 012085.	0.4	1
50	Cone-refringent solid-state bulk laser. , 2009, , .		0
51	Compact ultrafast lasers based on quantum-dot structures. Proceedings of SPIE, 2009, , .	0.8	1
52	Solid-State Conical Refraction Laser. , 2009, , .		0
53	All-semiconductor room-temperature terahertz time domain spectrometer. Optics Letters, 2008, 33, 2125.	3.3	34
54	Ultrafast optical Stark mode-locked semiconductor laser. Optics Letters, 2008, 33, 2797.	3.3	72

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55	Active stabilisation and timing jitter characterisation of sub-500â€…fs pulse passively modelocked VECSEL. Electronics Letters, 2008, 44, 1135.	1.0	26
56	Passively modelocked 832â€…nm vertical-external-cavity surface-emitting semiconductor laser producing 15.3â€…ps pulses at 1.9â€…GHz repetition rate. Electronics Letters, 2008, 44, 1469.	1.0	10
57	Spectrotemporal gain bandwidth measurement in an InGaAs/GaAsP quantum well vertical-external-cavity surface-emitting semiconductor laser. , 2008, , .		0
58	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
59	Characterization of pulse timing jitter of actively stabilised 1-GHz vertical-external-cavity surface-emitting semiconductor laser producing 500-fs pulses. , 2008, , .		1
60	High-power, high repetition rate picosecond and femtosecond sources based on Yb-doped fiber amplification of VECSELs. Optics Express, 2006, 14, 9611.	3.4	93
61	Timing jitter of 897â€…MHz optical pulse train from actively stabilised passively modelocked surface-emitting semiconductor laser. Electronics Letters, 2006, 42, 159.	1.0	26
62	Terahertz imaging system based on LT-GaAsSb antenna driven by all-semiconductor femtosecond source. Electronics Letters, 2006, 42, 1159.	1.0	25
63	Vertical-external-cavity semiconductor lasers. Journal Physics D: Applied Physics, 2004, 37, R75-R85.	2.8	169