

Keith G Wilcox

List of Publications by Year in descending order

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Version: 2024-02-01

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	A passively mode-locked external-cavity semiconductor laser emitting 60-fs pulses. <i>Nature Photonics</i> , 2009, 3, 729-731.	31.4	186
2	Vertical-external-cavity semiconductor lasers. <i>Journal Physics D: Applied Physics</i> , 2004, 37, R75-R85.	2.8	169
3	435 kW peak power femtosecond pulse mode-locked VECSEL for supercontinuum generation. <i>Optics Express</i> , 2013, 21, 1599.	3.4	139
4	High-power, high repetition rate picosecond and femtosecond sources based on Yb-doped fiber amplification of VECSELs. <i>Optics Express</i> , 2006, 14, 9611.	3.4	93
5	Conical refraction Nd:KGd(WO ₄) ₂ laser. <i>Optics Express</i> , 2010, 18, 2753.	3.4	86
6	Ultrafast optical Stark mode-locked semiconductor laser. <i>Optics Letters</i> , 2008, 33, 2797.	3.3	72
7	High Peak Power Femtosecond Pulse Passively Mode-Locked Vertical-External-Cavity Surface-Emitting Laser. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1021-1023.	2.5	49
8	Comment on SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , 2013, 7, 422-423.	8.7	38
9	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , 2008, 33, 2125.	3.3	34
10	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , 2012, 20, 7040.	3.4	33
11	Supercontinuum Generation With GHz Repetition Rate Femtosecond-Pulse Fiber-Amplified VECSELs. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 464-467.	2.5	29
12	Z-scan measurements of the nonlinear refractive index of a pumped semiconductor disk laser gain medium. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	28
13	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. <i>Optics Express</i> , 2010, 18, 21330.	3.4	27
14	Timing jitter of 897â€¦MHz optical pulse train from actively stabilised passively modelocked surface-emitting semiconductor laser. <i>Electronics Letters</i> , 2006, 42, 159.	1.0	26
15	Active stabilisation and timing jitter characterisation of sub-500â€¦fs pulse passively modelocked VECSEL. <i>Electronics Letters</i> , 2008, 44, 1135.	1.0	26
16	Laser with simultaneous Gaussian and conical refraction outputs. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 619-622.	2.2	26
17	Terahertz imaging system based on LT-GaAsSb antenna driven by all-semiconductor femtosecond source. <i>Electronics Letters</i> , 2006, 42, 1159.	1.0	25
18	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. <i>Applied Physics Letters</i> , 2009, 94, 251105.	3.3	25

#	ARTICLE	IF	CITATIONS
19	Repetition-frequency-tunable mode-locked surface emitting semiconductor laser between 278 and 787 GHz. Optics Express, 2011, 19, 23453.	3.4	25
20	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
21	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. Optics Express, 2012, 20, 8898.	3.4	20
22	Variable repetition frequency femtosecond-pulse surface emitting semiconductor laser. Applied Physics Letters, 2011, 99, 131107.	3.3	19
23	Electronically Controlled Pulse Duration Passively Mode-Locked Cr ⁴⁺ :Forsterite Laser. IEEE Photonics Technology Letters, 2009, 21, 1124-1126.	2.5	16
24	Ultrafast Vertical-External-Cavity Surface-Emitting Semiconductor Lasers. Semiconductors and Semimetals, 2012, , 269-300.	0.7	15
25	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
26	Photon-pair generation in photonic crystal fibre with a 1.5GHz modelocked VECSEL. Optics Communications, 2014, 327, 39-44.	2.1	15
27	Design of a solar-pumped semiconductor laser. Optica, 2015, 2, 56.	9.3	13
28	Nonlinear Lensing in an Unpumped Antiresonant Semiconductor Disk Laser Gain Structure. IEEE Photonics Technology Letters, 2016, 28, 1395-1398.	2.5	13
29	Passively modelocked 832-nm vertical-external-cavity surface-emitting semiconductor laser producing 15.3-ps pulses at 1.9-GHz repetition rate. Electronics Letters, 2008, 44, 1469.	1.0	10
30	Saturated gain spectrum of VECSELs determined by transient measurement of lasing onset. Optics Express, 2014, 22, 6919.	3.4	7
31	169 GHz repetition rate passively harmonically mode-locked VECSEL emitting 265 fs pulses. Proceedings of SPIE, 2011, , .	0.8	5
32	A wavelength tunable 2-ps pulse VECSEL. , 2012, , .		4
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	Wetting-Layer-Pumped Continuous-Wave Surface-Emitting Quantum-Dot Laser. IEEE Photonics Technology Letters, 2012, 24, 37-39.	2.5	3
35	Mode-locking build-up measurements: probing the mode-locking mechanisms in Vertical-External-Cavity Surface-Emitting Lasers. , 2010, , .		2
36	High peak power femtosecond pulse VECSELs for terahertz time domain spectroscopy. Proceedings of SPIE, 2011, , .	0.8	2

#	ARTICLE	IF	CITATIONS
37	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
38	Capture and release of carriers in InGaAs/GaAs quantum dots. Journal of Physics: Conference Series, 2009, 193, 012085.	0.4	1
39	Compact ultrafast lasers based on quantum-dot structures. Proceedings of SPIE, 2009, , .	0.8	1
40	Numerical modelling of optical Stark effect saturable absorbers in mode-locked femtosecond VECSELS. , 2011, , .		1
41	Towards VECSEL frequency combs. , 2013, , .		1
42	Generation of 200 fs pulses with a short microcavity VECSEL. Proceedings of SPIE, 2013, , .	0.8	1
43	Characterization of pulse timing jitter of actively stabilised 1-GHz vertical-external-cavity surface-emitting semiconductor laser producing 500-fs pulses. , 2008, , .		1
44	Optimal repetition rate and pulse duration studies for two photon imaging. Proceedings of SPIE, 2017, , .	0.8	1
45	Spectrotemporal gain bandwidth measurement in an InGaAs/GaAsP quantum well vertical-external-cavity surface-emitting semiconductor laser. , 2008, , .		0
46	Cone-refracting solid-state bulk laser. , 2009, , .		0
47	Gain Saturation in 60-fs Mode-Locked Semiconductor Laser. , 2010, , .		0
48	Gaussian to Lorentzian Beam Profile Converter Based on Conical Refraction. , 2010, , .		0
49	Simulation of metallic nanostructures for emission of THz radiation using the lateral photo-Dember effect. , 2011, , .		0
50	Frequency-tuneable ultrashort pulse VECSEL sources. Proceedings of SPIE, 2012, , .	0.8	0
51	Wetting-layer-pumped continuous-wave surface emitting quantum dot laser. Proceedings of SPIE, 2012, , .	0.8	0
52	Femtosecond Semiconductor Laser Emitting High Average Power 175-GHz Pulse Train. , 2012, , .		0
53	Supercontinuum generation with femtosecond pulse fiber amplified VECSELS. Proceedings of SPIE, 2013, , .	0.8	0
54	Spectral gain and cavity loss characterization of an optically-pumped external-cavity surface-emitting quantum well laser. , 2013, , .		0

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55	Effects of cryogenic temperatures on the performance of CW VECSELS. , 2013, , .		0
56	Femtosecond pulse mode-locked VECSELS. , 2014, , .		0
57	Coherent spectral broadening and compression of the output of a mode-locked VECSEL. Proceedings of SPIE, 2015, , .	0.8	0
58	Pumping of VECSELS using high quantum defect and broadband sources. Proceedings of SPIE, 2015, , .	0.8	0
59	Resonant measurements of nonlinear lensing in a VECSEL gain sample. , 2016, , .		0
60	Thermal management of VECSELS by front surface direct liquid cooling. Proceedings of SPIE, 2016, , .	0.8	0
61	Multiphoton imaging with high peak power VECSELS. , 2016, , .		0
62	Reflection z-scan measurements of the non-linear lens in VECSEL gain structures. Proceedings of SPIE, 2016, , .	0.8	0
63	Solid-State Conical Refraction Laser. , 2009, , .		0