Valentin J Wittwer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	High-power MIXSEL: an integrated ultrafast semiconductor laser with 64 W average power. Optics Express, 2010, 18, 27582.	3.4	114
2	Ultrafast and widely tuneable vertical-external-cavity surface-emitting laser, mode-locked by a graphene-integrated distributed Bragg reflector. Optics Express, 2013, 21, 31548.	3.4	111
3	Femtosecond high-power quantum dot vertical external cavity surface emitting laser. Optics Express, 2011, 19, 8108.	3.4	98
4	Green-diode-pumped femtosecond Ti:Sapphire laser with up to 450 mW average power. Optics Express, 2015, 23, 30043.	3.4	79
5	Generation of 35-fs pulses from a Kerr lens mode-locked Yb:Lu_2O_3 thin-disk laser. Optics Express, 2017, 25, 14918.	3.4	65
6	Experimentally verified pulse formation model for high-power femtosecond VECSELs. Applied Physics B: Lasers and Optics, 2013, 113, 133-145.	2.2	61
7	Femtosecond pulses from a modelocked integrated external-cavity surface emitting laser (MIXSEL). Optics Express, 2013, 21, 24904.	3.4	51
8	Experimental verification of soliton-like pulse-shaping mechanisms in passively mode-locked VECSELs. Optics Express, 2010, 18, 10143.	3.4	50
9	Few-cycle pulses from a graphene mode-locked all-fiber laser. Applied Physics Letters, 2015, 106, .	3.3	50
10	VECSEL gain characterization. Optics Express, 2012, 20, 4136.	3.4	47
11	Extreme ultraviolet light source at a megahertz repetition rate based on high-harmonic generation inside a mode-locked thin-disk laser oscillator. Optics Letters, 2017, 42, 5170.	3.3	39
12	Kerr lens mode-locked Yb:CALGO thin-disk laser. Optics Letters, 2018, 43, 879.	3.3	37
13	Femtosecond VECSEL with tunable multi-gigahertz repetition rate. Optics Express, 2011, 19, 23538.	3.4	36
14	Full stabilization and characterization of an optical frequency comb from a diode-pumped solid-state laser with GHz repetition rate. Optics Express, 2017, 25, 20437.	3.4	33
15	Timing Jitter Characterization of a Free-Running SESAM Mode-locked VECSEL. IEEE Photonics Journal, 2011, 3, 658-664.	2.0	31
16	Sub-100-fs Kerr lens mode-locked Yb:Lu ₂ O ₃ thin-disk laser oscillator operating at 21 W average power. Optics Express, 2019, 27, 16111.	3.4	29
17	Fiber grating compression of giant-chirped nanosecond pulses from an ultra-long nanotube mode-locked fiber laser. Optics Letters, 2015, 40, 387.	3.3	28
18	Highly efficient Q-switched Yb:YAG channel waveguide laser with 56  W of average output power. Optics Letters, 2016, 41, 4715.	3.3	26

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19	Carrier envelope offset frequency detection and stabilization of a diode-pumped mode-locked Ti:sapphire laser. Optics Letters, 2017, 42, 1035.	3.3	25
20	Carrier-envelope offset frequency stabilization of a gigahertz semiconductor disk laser. Optica, 2017, 4, 1482.	9.3	25
21	High-power dual-comb thin-disk laser oscillator for fast high-resolution spectroscopy. Optics Express, 2021, 29, 15104.	3.4	25
22	Broadband terahertz pulse generation driven by an ultrafast thin-disk laser oscillator. Optics Express, 2018, 26, 26377.	3.4	24
23	Sub-30-fs Yb:YAG thin-disk laser oscillator operating in the strongly self-phase modulation broadened regime. Optics Express, 2021, 29, 35929.	3.4	24
24	A Kerr polarization controller. Nature Communications, 2022, 13, 398.	12.8	23
25	Low repetition rate SESAM modelocked VECSEL using an extendable active multipass-cavity approach. Optics Express, 2012, 20, 27915.	3.4	21
26	Intra-oscillator high harmonic generation in a thin-disk laser operating in the 100-fs regime. Optics Express, 2021, 29, 5833.	3.4	21
27	Efficient 100-MW, 100-W, 50-fs-class Yb:YAG thin-disk laser oscillator. Optics Express, 2021, 29, 42075.	3.4	21
28	Performance scaling of a 10-GHz solid-state laser enabling self-referenced CEO frequency detection without amplification. Optics Express, 2020, 28, 12755.	3.4	19
29	Efficient few-cycle Yb-doped laser oscillator with Watt-level average power. Optics Express, 2022, 30, 2528.	3.4	16
30	Characterizing the carrier-envelope offset in an optical frequency comb without traditional f-to-2f interferometry. Optics Letters, 2015, 40, 5522.	3.3	15
31	First investigation of the noise and modulation properties of the carrier-envelope offset in a modelocked semiconductor laser. Optics Letters, 2016, 41, 3165.	3.3	15
32	Carrier-envelope offset stabilization of a GHz repetition rate femtosecond laser using opto-optical modulation of a SESAM. Optics Letters, 2017, 42, 4651.	3.3	15
33	All-fiber nonlinearity- and dispersion-managed dissipative soliton nanotube mode-locked laser. Applied Physics Letters, 2015, 107, .	3.3	14
34	Optical rectification of ultrafast Yb lasers: pushing power and bandwidth of terahertz generation in GaP. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3039.	2.1	14
35	XUV Sources Based on Intra-Oscillator High Harmonic Generation With Thin-Disk Lasers: Current Status and Prospects. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-19.	2.9	12
36	Gain characterization and passive modelocking of electrically pumped VECSELs. Optics Express, 2012, 20, 24791.	3.4	11

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37	Absolute frequency referencing in the long wave infrared using a quantum cascade laser frequency comb. Optics Express, 2022, 30, 12891.	3.4	11
38	Coherently-averaged dual comb spectrometer at 7.7â€Âµm with master and follower quantum cascade lasers. Optics Express, 2021, 29, 19126.	3.4	10
39	Frequency comb metrology with an optical parametric oscillator. Optics Express, 2016, 24, 8370.	3.4	9
40	High-power amplification of a femtosecond vertical external-cavity surface-emitting laser in an Yb:YAG waveguide. Optics Express, 2017, 25, 16527.	3.4	9
41	Carrier-envelope offset frequency stabilization of a thin-disk laser oscillator operating in the strongly self-phase modulation broadened regime. Optics Express, 2018, 26, 28461.	3.4	8
42	Diode-pumped Tm:KY(WO_4)_2 laser passively modelocked with a GaSb-SESAM. Optics Express, 2017, 25, 25760.	3.4	7
43	Intra-oscillator broadband THz generation in a compact ultrafast diode-pumped solid-state laser. Optics Express, 2021, 29, 23729.	3.4	7
44	Power-scaling of nonlinear-mirror modelocked thin-disk lasers. Optics Express, 2019, 27, 37349.	3.4	7
45	Frequency axis for swept dual-comb spectroscopy with quantum cascade lasers. Optics Letters, 2022, 47, 625.	3.3	7
46	Frequency Comb Stabilization of Ultrafast Lasers by Opto-Optical Modulation of Semiconductors. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	6
47	69 W average power sub-100-fs Yb:YAG thin-disk laser. , 2021, , .		1
48	69-W Sub-100-fs Yb:YAG Thin-Disk Laser Oscillator. , 2021, , .		1
49	Yb.CALGO Oscillator Generates 31-fs Pulses with 389 mW at 29% Efficiency by Cross-Polarized Optical Pumping. , 2020, , .		1
50	Compact megahertz coherent XUV generation by HHG inside an ultrafast thin-disk laser. , 2017, , .		1
51	Frequency Comb Stabilization of a 50-fs Thin-Disk Laser Oscillator Operating in a Strongly SPM-broadened Regime. , 2018, , .		1
52	Ultrafast optical parametric oscillator pumped by a vertical external-cavity surface-emitting laser (VECSEL). Optics Express, 2017, 25, 28983.	3.4	0
53	Thin-Disk Laser Oscillator Driving THz Generation Up To 6 THz. , 2018, , .		0
54	Intra-Cavity Broadband THz Generation Inside a Diode-Pumped Solid-State Laser Oscillator. , 2021, , .		0

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#	Article	IF	CITATIONS
55	New horizons for high power broadband THz sources driven by ultrafast Yb-based thin-disk laser oscillators. , 2019, , .		0
56	Yb:CALGO bulk oscillator generating ultrashort pulses at high efficiency by cross-polarized optical pumping. EPJ Web of Conferences, 2020, 243, 10001.	0.3	0
57	Self-Referenced CEO Frequency Detection of a 10-GHz Laser Enabled by Highly Efficient Nonlinear Waveguides. , 2020, , .		Ο
58	Intra-Oscillator High Harmonic Generation in a ~100-fs Kerr-Lens Mode-Locked Yb:YAG Thin-Disk Laser. , 2020, , .		0
59	10-µW, 30-eV High Harmonic Generation inside an Yb:YAG Thin-Disk Laser Oscillator. , 2021, , .		0
60	Powerful Sub-40-fs Yb:YAG Thin-Disk Laser Oscillator Operating in the Regime of Strong Self-Phase Modulation. , 2021, , .		0
61	High-Resolution Quantum Cascade Laser Dual-Comb Spectroscopy with Accurate Absolute Frequency Scale. , 2022, , .		0
62	High Harmonic Generation Inside Thin-Disk Laser Oscillators – An Efficient and Single-Stage XUV Source. , 2022, , .		0