

# Oliver H Heckl

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,126  
citations

218677

26  
h-index

361022

35  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1513  
citing authors

#	ARTICLE	IF	CITATIONS
1	275 W average output power from a femtosecond thin disk oscillator operated in a vacuum environment. Optics Express, 2012, 20, 23535.	3.4	191
2	Femtosecond thin-disk laser with 141 W of average power. Optics Letters, 2010, 35, 2302.	3.3	173
3	High-power ultrafast thin disk laser oscillators and their potential for sub-100-femtosecond pulse generation. Applied Physics B: Lasers and Optics, 2009, 97, 281-295.	2.2	164
4	High-performance near- and mid-infrared crystalline coatings. Optica, 2016, 3, 647.	9.3	132
5	SESAMs for High-Power Oscillators: Design Guidelines and Damage Thresholds. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 29-41.	2.9	128
6	Thermal analysis and efficient high power continuous-wave and mode-locked thin disk laser operation of Yb-doped sesquioxides. Applied Physics B: Lasers and Optics, 2011, 102, 509-514.	2.2	107
7	Beam delivery and pulse compression to sub-50 fs of a modelocked thin-disk laser in a gas-filled Kagome-type HC-PCF fiber. Optics Express, 2013, 21, 4986.	3.4	97
8	High harmonic generation in a gas-filled hollow-core photonic crystal fiber. Applied Physics B: Lasers and Optics, 2009, 97, 369-373.	2.2	93
9	Continuous probing of cold complex molecules with infrared frequency comb spectroscopy. Nature, 2016, 533, 517-520.	27.8	92
10	Direct frequency comb measurement of OD + CO $\hat{a}$ DOCO kinetics. Science, 2016, 354, 444-448.	12.6	86
11	Flexible all-PM NALM Yb: fiber laser design for frequency comb applications: operation regimes and their noise properties. Optics Express, 2020, 28, 18946.	3.4	73
12	Continuous-wave and modelocked Yb:YCOB thin disk laser: first demonstration and future prospects. Optics Express, 2010, 18, 19201.	3.4	61
13	Temporal pulse compression in a xenon-filled Kagome-type hollow-core photonic crystal fiber at high average power. Optics Express, 2011, 19, 19142.	3.4	57
14	Frontiers in passively mode-locked high-power thin disk laser oscillators. Optics Express, 2012, 20, 7054.	3.4	57
15	Femtosecond Yb:Lu <sub>2</sub> O <sub>3</sub> thin disk laser with 63 W of average power. Optics Letters, 2009, 34, 2823.	3.3	54
16	SESAMs for high-power femtosecond modelocking: power scaling of an Yb:LuScO <sub>3</sub> thin disk laser to 23 W and 235 fs. Optics Express, 2011, 19, 20288.	3.4	54
17	Sub-100 femtosecond pulses from a SESAM modelocked thin disk laser. Applied Physics B: Lasers and Optics, 2012, 106, 559-562.	2.2	54
18	Yb-doped mixed sesquioxides for ultrashort pulse generation in the thin disk laser setup. Applied Physics B: Lasers and Optics, 2013, 113, 13-18.	2.2	52

#	ARTICLE	IF	CITATIONS
19	227-fs pulses from a mode-locked Yb:LuScO <sub>3</sub> thin disk laser. Optics Express, 2009, 17, 10725.	3.4	50
20	Tunable dual-comb from an all-polarization-maintaining single-cavity dual-color Yb: fiber laser. Optics Express, 2019, 27, 28062.	3.4	42
21	Self-referenceable frequency comb from an ultrafast thin disk laser. Optics Express, 2012, 20, 9650.	3.4	39
22	Compact, All-PM Fiber Integrated and Alignment-Free Ultrafast Yb: Fiber NALM Laser With Sub-Femtosecond Timing Jitter. Journal of Lightwave Technology, 2021, 39, 4431-4438.	4.6	36
23	Pulse compression of a high-power thin disk laser using rod-type fiber amplifiers. Optics Express, 2011, 19, 1395.	3.4	34
24	Cutting-Edge High-Power Ultrafast Thin Disk Oscillators. Applied Sciences (Switzerland), 2013, 3, 355-395.	2.5	32
25	Phase-stabilized 100 mW frequency comb near 10 μm. Applied Physics B: Lasers and Optics, 2018, 124, 128.	2.2	29
26	Mid-infrared interference coatings with excess optical loss below 10 ppm. Optica, 2021, 8, 686.	9.3	29
27	Tunable dual-color operation of Yb: fiber laser via mechanical spectral subdivision. Optics Express, 2019, 27, 5478.	3.4	29
28	Three-photon absorption in optical parametric oscillators based on OP-GaAs. Optics Letters, 2016, 41, 5405.	3.3	25
29	OD + CO → D + CO <sub>2</sub> branching kinetics probed with time-resolved frequency comb spectroscopy. Chemical Physics Letters, 2017, 683, 91-95.	2.6	8
30	Simple approach for extending the ambiguity-free range of dual-comb ranging. Optics Letters, 2021, 46, 3677.	3.3	8
31	Near-infrared scanning cavity ringdown for optical loss characterization of supermirrors. Optics Express, 2019, 27, 19141.	3.4	5
32	EELS analysis of internal metal oxide interfaces. International Journal of Materials Research, 2008, 99, 496-501.	0.3	3
33	Ultrafast disk technology enables next generation micromachining laser sources. , 2013, , .		3
34	Compact, alignment-free, environmentally stable dispersion compensated femtosecond Yb-fiber oscillator. , 2020, , .		3
35	Perfect Precision in Industrial Micro Machining. Laser Technik Journal, 2012, 9, 42-47.	0.2	2
36	63-W average power from femtosecond Yb:Lu <sub>2</sub> O <sub>3</sub> thin disk laser. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	SESAM designs for ultrafast lasers. , 2013, , .		1
38	Lasers and applications in parts cleaning and surface pre-treatment. Proceedings of SPIE, 2013, , .	0.8	1
39	Low-loss crystalline coatings for the near- and mid-infrared. , 2016, , .		1
40	All-Polarization-Maintaining Dual-Color/Dual-Comb Yb:Fiber Laser. , 2019, , .		1
41	Comparison of two low-noise CEO frequency stabilization methods for an all-PM Yb: fiber NALM oscillator. OSA Continuum, 0, , .	1.8	1
42	High-Performance Mid-Infrared Crystalline Bragg Mirrors at 4.5 $\mu\text{m}$ . , 2019, , .		1
43	High harmonic generation (HHG) in a Kagome-type hollow-core photonic crystal fiber (HC-PCF). , 2009, , .		0
44	227-fs pulses from a mode-locked Yb:LuScO <sub>3</sub> thin disk laser. , 2009, , .		0
45	Yb-doped ultrafast thin disk lasers. , 2011, , .		0
46	Rod-type fiber amplifier for pulse compression of high power thin-disk lasers. , 2011, , .		0
47	High damage threshold SESAMs for high power femtosecond modelocking: 23 W, 235 fs Yb:LuScO <sub>3</sub> thin-disk laser. , 2011, , .		0
48	SESAMs for high-power femtosecond modelocking: power scaling of an Yb:LuScO <sub>3</sub> thin disk laser to 23 W and 235 fs. Proceedings of SPIE, 2012, , .	0.8	0
49	Ultrafast thin disk lasers: sub-100 fs pulse duration and carrier envelope offset detection. EPJ Web of Conferences, 2013, 41, 10009.	0.3	0
50	Industry-grade high average power femtosecond light source. Proceedings of SPIE, 2014, , .	0.8	0
51	High-Performance Mid-Infrared Crystalline Bragg Mirrors at 4.5 $\mu\text{m}$ . , 2019, , .		0
52	Flexible all-PM NALM Yb: fiber laser design for low-noise frequency comb applications and single-cavity dual-comb generation. EPJ Web of Conferences, 2020, 243, 04001.	0.3	0
53	Simple Approach for Ambiguity-Free Dual-Comb Ranging Using an Intrinsically Modulated Single-Cavity Laser Source. , 2021, , .		0
54	Mid-infrared crystalline supermirrors with ultralow optical absorption (Conference Presentation). , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Tunable all-polarization-maintaining single-cavity dual-color/dual-comb from an Yb: fiber laser. , 2019, , .		0
56	High-Performance Mid-Infrared Crystalline Bragg Mirrors at 4.5 $\mu\text{m}$ . , 2019, , .		0
57	Versatile Figure-9 Design: How to Access Low-Noise Regimes in an All-PM Yb:Fiber Laser. , 2020, , .		0