

# Norbert Modsching

## List of Publications by Year in descending order

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37  
papers

664  
citations

567281

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677142

22  
g-index

37  
all docs

37  
docs citations

37  
times ranked

463  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of photodarkening on the mode instability threshold. Optics Express, 2015, 23, 15265.	3.4	135
2	Generation of 35-fs pulses from a Kerr lens mode-locked Yb:Lu <sub>2</sub> O <sub>3</sub> thin-disk laser. Optics Express, 2017, 25, 14918.	3.4	65
3	2â€‰kW average power from a pulsed Yb-doped rod-type fiber amplifier. Optics Letters, 2014, 39, 6446.	3.3	56
4	Lasing in thulium-doped polarizing photonic crystal fiber. Optics Letters, 2011, 36, 3873.	3.3	50
5	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
6	Kerr lens mode-locked Yb:CALGO thin-disk laser. Optics Letters, 2018, 43, 879.	3.3	37
7	Optical properties of unprotected and protected sputtered silver films: Surface morphology vs. UV/VIS reflectance. Advanced Optical Technologies, 2014, 3, 91-102.	1.7	29
8	Sub-100-fs Kerr lens mode-locked Yb:Lu <sub>2</sub> O <sub>3</sub> thin-disk laser oscillator operating at 21 W average power. Optics Express, 2019, 27, 16111.	3.4	29
9	Q-switched thulium-doped photonic crystal fiber laser. Optics Letters, 2012, 37, 1664.	3.3	25
10	High-power dual-comb thin-disk laser oscillator for fast high-resolution spectroscopy. Optics Express, 2021, 29, 15104.	3.4	25
11	Broadband terahertz pulse generation driven by an ultrafast thin-disk laser oscillator. Optics Express, 2018, 26, 26377.	3.4	24
12	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
13	Intra-oscillator high harmonic generation in a thin-disk laser operating in the 100-fs regime. Optics Express, 2021, 29, 5833.	3.4	21
14	Efficient 100-MW, 100-W, 50-fs-class Yb:YAG thin-disk laser oscillator. Optics Express, 2021, 29, 42075.	3.4	21
15	Efficient few-cycle Yb-doped laser oscillator with Watt-level average power. Optics Express, 2022, 30, 2528.	3.4	16
16	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
17	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
18	Wavelength Dependence of Maximal Diffraction-Limited Output Power of Fiber Lasers. , 2014, , .		10

#	ARTICLE	IF	CITATIONS
19	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
20	Intra-oscillator broadband THz generation in a compact ultrafast diode-pumped solid-state laser. Optics Express, 2021, 29, 23729.	3.4	7
21	Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. IEEE Photonics Journal, 2020, 12, 1-9.	2.0	6
22	The impact of photodarkening on mode instabilities in high-power fiber laser systems. , 2014, , .		3
23	Wavelength dependence of maximal diffraction-limited output power of fiber lasers. Proceedings of SPIE, 2015, , .	0.8	2
24	Recent progress in the understanding of mode instabilities. Proceedings of SPIE, 2015, , .	0.8	2
25	69 W average power sub-100-fs Yb:YAG thin-disk laser. , 2021, , .		1
26	69-W Sub-100-fs Yb:YAG Thin-Disk Laser Oscillator. , 2021, , .		1
27	Yb:CALGO Oscillator Generates 31-fs Pulses with 389 mW at 29% Efficiency by Cross-Polarized Optical Pumping. , 2020, , .		1
28	Frequency Comb Stabilization of a 50-fs Thin-Disk Laser Oscillator Operating in a Strongly SPM-broadened Regime. , 2018, , .		1
29	Intra-Cavity Broadband THz Generation Inside a Diode-Pumped Solid-State Laser Oscillator. , 2021, , .		0
30	New horizons for high power broadband THz sources driven by ultrafast Yb-based thin-disk laser oscillators. , 2019, , .		0
31	21 W average power sub-100-fs Yb:Lu2O3 thin-disk laser. , 2019, , .		0
32	Intra-Oscillator High Harmonic Generation in a ~100-fs Kerr-Lens Mode-Locked Yb:YAG Thin-Disk Laser. , 2020, , .		0
33	High Harmonic Generation Inside an Ultrafast Kerr-Lens Mode-Locked Thin-Disk Laser Oscillator. , 2020, , .		0
34	Intra-Oscillator High Harmonic Generation in a ~100-fs Kerr-Lens Mode-Locked Thin-Disk Laser. , 2020, , .		0
35	10- $\mu$ W, 30-eV High Harmonic Generation inside an Yb:YAG Thin-Disk Laser Oscillator. , 2021, , .		0
36	Powerful Sub-40-fs Yb:YAG Thin-Disk Laser Oscillator Operating in the Regime of Strong Self-Phase Modulation. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	High Harmonic Generation Inside Thin-Disk Laser Oscillators – An Efficient and Single-Stage XUV Source. , 2022, , .		0