

# Arno Klenke

## List of Publications by Year in descending order

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45  
papers

1,597  
citations

430874

18  
h-index

526287

27  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1139  
citing authors

#	ARTICLE	IF	CITATIONS
1	10.4â€‰%â€‰kW coherently combined ultrafast fiber laser. Optics Letters, 2020, 45, 3083.	3.3	184
2	530ÂW, 13ÂmJ, four-channel coherently combined femtosecond fiber chirped-pulse amplification system. Optics Letters, 2013, 38, 2283.	3.3	155
3	1 kW 1 mJ eight-channel ultrafast fiber laser. Optics Letters, 2016, 41, 3439.	3.3	147
4	High photon flux table-top coherent extreme-ultraviolet source. Nature Photonics, 2014, 8, 779-783.	31.4	144
5	Single-pass high harmonic generation at high repetition rate and photon flux. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 172002.	1.5	99
6	Exploring new avenues in high repetition rate table-top coherent extreme ultraviolet sources. Light: Science and Applications, 2015, 4, e320-e320.	16.6	97
7	35â€‰%â€‰kW coherently combined ultrafast fiber laser. Optics Letters, 2018, 43, 6037.	3.3	84
8	12â€‰%â€‰mJâ€‰kW-class ultrafast fiber laser system using multidimensional coherent pulse addition. Optics Letters, 2016, 41, 3343.	3.3	77
9	Basic considerations on coherent combining of ultrashort laser pulses. Optics Express, 2011, 19, 25379.	3.4	66
10	Coherently-combined two channel femtosecond fiber CPA system producing 3 mJ pulse energy. Optics Express, 2011, 19, 24280.	3.4	60
11	Scaling the mode instability threshold with multicore fibers. Optics Letters, 2014, 39, 2680.	3.3	60
12	1â€‰%â€‰kW, 10â€‰%â€‰mJ, 120â€‰%â€‰fs coherently combined fiber CPA laser system. Optics Letters, 2021, 46, 96960	3.4	60
13	Coherent Beam Combination of Ultrafast Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	56
14	23â€‰%â€‰mJ high-power fiber CPA system using electro-optically controlled divided-pulse amplification. Optics Letters, 2019, 44, 5529.	3.3	39
15	A concept for multiterawatt fibre lasers based on coherent pulse stacking in passive cavities. Light: Science and Applications, 2014, 3, e211-e211.	16.6	37
16	Divided-pulse nonlinear compression. Optics Letters, 2013, 38, 4593.	3.3	35
17	Performance Scaling of Ultrafast Laser Systems by Coherent Addition of Femtosecond Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 268-277.	2.9	35
18	Acousto-optic pulse picking scheme with carrier-frequency-to-pulse-repetition-rate synchronization. Optics Express, 2015, 23, 19586.	3.4	33

#	ARTICLE	IF	CITATIONS
19	Electro-optically controlled divided-pulse amplification. Optics Express, 2017, 25, 13494.	3.4	17
20	Impact of thermo-optical effects in coherently combined multicore fiber amplifiers. Optics Express, 2020, 28, 38093.	3.4	17
21	Ultrafast Tm-doped fiber laser system delivering 1.65-mJ, sub-100-fs pulses at a 100-kHz repetition rate. Optics Letters, 2022, 47, 3095.	3.3	16
22	500-W rod-type 4-µm multicore ultrafast fiber laser. Optics Letters, 2022, 47, 345.	3.3	15
23	Sequential phase locking scheme for a filled aperture intensity coherent combination of beam arrays. Optics Express, 2018, 26, 12072.	3.4	13
24	Carrier-envelope phase stable few-cycle laser system delivering more than 100 W, 1 mJ, sub-2-cycle pulses. Optics Letters, 2022, 47, 1537.	3.3	12
25	High-energy Q-switched 16-core tapered rod-type fiber laser system. Optics Letters, 2022, 47, 1725.	3.3	10
26	Simplified design of optical elements for filled-aperture coherent beam combination. Optics Express, 2020, 28, 21035.	3.4	8
27	Scaling potential of beam-splitter-based coherent beam combination. Optics Express, 2021, 29, 27900.	3.4	7
28	10.4 kW coherently-combined ultrafast fiber laser. , 2020, , .		6
29	1 kW average power emission from an in-house 4x4 multicore rod-type fiber. , 2021, , .		2
30	Coherent beam combination of pulses emitted by a 16-core ytterbium-doped fiber. , 2019, , .		2
31	Investigation of the thermo-optical behavior of multicore fibers used in coherently combined fiber laser systems. , 2020, , .		2
32	Ghz-Bursts and Ultrafast External Modulation of Femtosecond Fiber Lasers with kW Average Power Levels. , 2019, , .		1
33	Divided-pulse nonlinear compression in a multipass cell. JPhys Photonics, 2022, 4, 035001.	4.6	1
34	Basic consideration on coherent combining of ultrafast CPA amplifiers. , 2011, , .		0
35	High energy coherently combined femtosecond fiber CPA system. , 2011, , .		0
36	4-Channel coherently combined femtosecond fiber CPA system delivering 1.3 mJ pulses with 532 W average power. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Fiber amplifier CPA system using divided-pulse amplification for multi-mJ extraction. , 2013, , .		0
38	3.5 kW Four-Channel Coherently Combined Ultrafast Fiber Laser. , 2019, , .		0
39	170 W Multicore Fiber Based Femtosecond CPA System. , 2019, , .		0
40	High-average-power and high-pulse-energy CEP-stable few-cycle pulses: Status of the ELI-ALPS HR2 laser system. , 2021, , .		0
41	Optimizing rod-type multicore fiber amplifiers in coherently-combined laser systems. , 2021, , .		0
42	High Energy Pulsed Operation of a Tapered Rod-Type Multicore Fiber Amplifier. , 2021, , .		0
43	Divided-pulse nonlinear compression in a multipass cell. , 2022, , .		0
44	High energy oscillator-amplifier with tapered rod-type multicore fiber. , 2022, , .		0
45	500 W average power, multicore fiber-based femtosecond CPA system. , 2022, , .		0