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	500â€…W rod-type 4â€‰Ã—â€‰4 multicore ultrafast fiber laser. Optics Letters, 2022, 47, 345.	3.3	15
2	High-energy Q-switched 16-core tapered rod-type fiber laser system. Optics Letters, 2022, 47, 1725.	3.3	10
3	Divided-pulse nonlinear compression in a multipass cell. , 2022, , .		0
4	High energy oscillator-amplifier with tapered rod-type multicore fiber. , 2022, , .		0
5	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
6	500 W average power, multicore fiber-based femtosecond CPA system. , 2022, , .		0
7	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
8	Divided-pulse nonlinear compression in a multipass cell. JPhys Photonics, 2022, 4, 035001.	4.6	1
9	1â€‰â€‰kW, 10â€‰â€‰mJ, 120â€‰â€‰fs coherently combined fiber CPA laser system. Optics Letters, 2021, 46, 969.	3.3	60
10	High-average-power and high-pulse-energy CEP-stable few-cycle pulses: Status of the ELI-ALPS HR2 laser system. , 2021, , .		0
11	1 kW average power emission from an in-house 4x4 multicore rod-type fiber. , 2021, , .		2
12	Optimizing rod-type multicore fiber amplifiers in coherently-combined laser systems. , 2021, , .		0
13	Scaling potential of beam-splitter-based coherent beam combination. Optics Express, 2021, 29, 27900.	3.4	7
14	High Energy Pulsed Operation of a Tapered Rod-Type Multicore Fiber Amplifier. , 2021, , .		0
15	10.4â€‰â€‰kW coherently combined ultrafast fiber laser. Optics Letters, 2020, 45, 3083.	3.3	184
16	Simplified design of optical elements for filled-aperture coherent beam combination. Optics Express, 2020, 28, 21035.	3.4	8
17	Impact of thermo-optical effects in coherently combined multicore fiber amplifiers. Optics Express, 2020, 28, 38093.	3.4	17
18	10.4 kW coherently-combined ultrafast fiber laser. , 2020, , .		6

#	Article	IF	Citations
19	Investigation of the thermo-optical behavior of multicore fibers used in coherently combined fiber laser systems. , 2020, , .		2
20	3.5 kW Four-Channel Coherently Combined Ultrafast Fiber Laser. , 2019, , .		0
21	170 W Multicore Fiber Based Femtosecond CPA System. , 2019, , .		0
22	Ghz-Bursts and Ultrafast External Modulation of Femtosecond Fiber Lasers with kW Average Power Levels. , 2019, , .		1
23	23â€‰â€‰mJ high-power fiber CPA system using electro-optically controlled divided-pulse amplification. Optics Letters, 2019, 44, 5529.	3.3	39
24	Coherent beam combination of pulses emitted by a 16-core ytterbium-doped fiber. , 2019, , .		2
25	Coherent Beam Combination of Ultrafast Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	56
26	Sequential phase locking scheme for a filled aperture intensity coherent combination of beam arrays. Optics Express, 2018, 26, 12072.	3.4	13
27	35â€‰â€‰kW coherently combined ultrafast fiber laser. Optics Letters, 2018, 43, 6037.	3.3	84
28	Electro-optically controlled divided-pulse amplification. Optics Express, 2017, 25, 13494.	3.4	17
29	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
30	12â€‰â€‰mJâ€‰kW-class ultrafast fiber laser system using multidimensional coherent pulse addition. Optics Letters, 2016, 41, 3343.	3.3	77
31	1 kW 1 mJ eight-channel ultrafast fiber laser. Optics Letters, 2016, 41, 3439.	3.3	147
32	Exploring new avenues in high repetition rate table-top coherent extreme ultraviolet sources. Light: Science and Applications, 2015, 4, e320-e320.	16.6	97
33	Acousto-optic pulse picking scheme with carrier-frequency-to-pulse-repetition-rate synchronization. Optics Express, 2015, 23, 19586.	3.4	33
34	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
35	Scaling the mode instability threshold with multicore fibers. Optics Letters, 2014, 39, 2680.	3.3	60
36	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

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37	High photon flux table-top coherent extreme-ultraviolet source. Nature Photonics, 2014, 8, 779-783.	31.4	144
38	Divided-pulse nonlinear compression. Optics Letters, 2013, 38, 4593.	3.3	35
39	4-Channel coherently combined femtosecond fiber CPA system delivering 1.3 mJ pulses with 532 W average power. , 2013, , .		0
40	530ÂW, 13ÂmJ, four-channel coherently combined femtosecond fiber chirped-pulse amplification system. Optics Letters, 2013, 38, 2283.	3.3	155
41	Fiber amplifier CPA system using divided-pulse amplification for multi-mJ extraction. , 2013, , .		0
42	Coherently-combined two channel femtosecond fiber CPA system producing 3 mJ pulse energy. Optics Express, 2011, 19, 24280.	3.4	60
43	Basic considerations on coherent combining of ultrashort laser pulses. Optics Express, 2011, 19, 25379.	3.4	66
44	Basic consideration on coherent combining of ultrafast CPA amplifiers. , 2011, , .		0
45	High energy coherently combined femtosecond fiber CPA system. , 2011, , .		0