Thomas Schreiber

List of Publications by Year
in descending order

78 papers	6,215 citations	218677 26 h-index	161849 54 g-index
81 all docs	81 docs citations	81 times ranked	4739 citing authors

#	Article	IF	Citations
1	Surrogate time series. Physica D: Nonlinear Phenomena, 2000, 142, 346-382.	2.8	1,399
2	Femtosecond fiber CPA system emitting 830 W average output power. Optics Letters, 2010, 35, 94.	3.3	553
3	Experimental observations of the threshold-like onset of mode instabilities in high power fiber amplifiers. Optics Express, 2011, 19, 13218.	3.4	541
4	NONLINEAR TIME SEQUENCE ANALYSIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1991, 01, 521-547.	1.7	465
5	On noise reduction methods for chaotic data. Chaos, 1993, 3, 127-141.	2.5	240
6	The Rising Power of Fiber Lasers and Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 537-545.	2.9	195
7	High average power spectral beam combining of four fiber amplifiers to 82â€‰kW. Optics Letters, 2011, 36, 3118.	3.3	168
8	Discrete nonlinear localization in femtosecond laser written waveguides in fused silica. Optics Express, 2005, 13, 10552.	3.4	144
9	Fiber lasers and amplifiers: an ultrafast performance evolution. Applied Optics, 2010, 49, F71.	2.1	140
10	Nonlinear refractive index of fs-laser-written waveguides in fused silica. Optics Express, 2006, 14, 2151.	3.4	125
11	On the study of pulse evolution in ultra-short pulse mode-locked fiber lasers by numerical simulations. Optics Express, 2007, 15, 8252.	3.4	98
12	Efficient Raman frequency conversion of highâ€power fiber lasers in diamond. Laser and Photonics Reviews, 2015, 9, 405-411.	8.7	89
13	Nonlinear noise reduction for electrocardiograms. Chaos, 1996, 6, 87-92.	2.5	77
14	High-power tandem pumped fiber amplifier with an output power of 29â€‰kW. Optics Letters, 2011, 36, 3061.	3.3	72
15	Build up and decay of mode instability in a high power fiber amplifier. Optics Express, 2012, 20, 13274.	3.4	64
16	Experimental investigations on the TMI thresholds of low-NA Yb-doped single-mode fibers. Optics Letters, 2018, 43, 1291.	3.3	58
17	Microjoule-level all-polarization-maintaining femtosecond fiber source. Optics Letters, 2006, 31, 574.	3.3	56
18	Noise in chaotic data: Diagnosis and treatment. Chaos, 1995, 5, 133-142.	2.5	55

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19	High-energy femtosecond photonic crystal fiber laser. Optics Letters, 2010, 35, 3156.	3.3	55
20	Monolithic thulium fiber laser with 567â€‰â€‰W output power at 1970â€‰â€‰nm. Optics Letters, 2016, 41, 2632.	3.3	42
21	Scalability of components for kW-level average power few-cycle lasers. Applied Optics, 2016, 55, 1636.	2.1	41
22	Extremely robust femtosecond written fiber Bragg gratings for an ytterbium-doped fiber oscillator with 5â€‰â€‰kW output power. Optics Letters, 2020, 45, 1447.	3.3	41
23	Application of two promising Reinforcement Learning algorithms for load shifting in a cooling supply system. Energy and Buildings, 2020, 229, 110490.	6.7	40
24	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
25	Acousto-optic pulse picking scheme with carrier-frequency-to-pulse-repetition-rate synchronization. Optics Express, 2015, 23, 19586.	3.4	33
26	Microscopic chaos from brownian motion?. Nature, 1999, 401, 875-876.	27.8	29
27	Monolithic all-glass pump combiner scheme for high-power fiber laser systems. Optics Express, 2010, 18, 13194.	3.4	28
28	A 325-W-Average-Power Fiber CPA System Delivering Sub-400 fs Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 187-190.	2.9	26
29	Optimizing mode instability in low-NA fibers by passive strategies. Optics Letters, 2015, 40, 2317.	3.3	26
30	Femtosecond written fiber Bragg gratings in ytterbium-doped fibers for fiber lasers in the kilowatt regime. Optics Letters, 2019, 44, 723.	3.3	22
31	Measuring thermal load in fiber amplifiers in the presence of transversal mode instabilities. Optics Letters, 2017, 42, 4311.	3.3	21
32	Laser cooling of ytterbium-doped silica glass. Communications Physics, 2020, 3, .	5.3	21
33	FAST NONLINEAR PROJECTIVE FILTERING IN A DATA STREAM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2039-2045.	1.7	20
34	Implementation of Laser-Induced Anti-Stokes Fluorescence Power Cooling of Ytterbium-Doped Silica Glass. ACS Omega, 2021, 6, 8376-8381.	3.5	19
35	Transverse mode instability in a passive fiber induced by stimulated Raman scattering. Optics Express, 2020, 28, 22819.	3.4	19
36	Incoherent Beam Combining of Continuous-Wave and Pulsed Yb-Doped Fiber Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 354-360.	2.9	17

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37	High-power linear-polarized narrow linewidth photonic crystal fiber amplifier. Proceedings of SPIE, 2010, , .	0.8	17
38	500â€…W rod-type 4â€‰Ã—â€‰4 multicore ultrafast fiber laser. Optics Letters, 2022, 47, 345.	3.3	15
39	Nonlinear noise reduction using reference data. Physical Review E, 2001, 63, 036209.	2.1	14
40	High-Brightness Incoherent Combination of Fiber Lasers in 7 Ã— 1 Fiber Couplers at Average Powers > 5 kW. Journal of Lightwave Technology, 2015, 33, 4297-4302.	4.6	13
41	Experimental analysis of Raman-induced transverse mode instability in a core-pumped Raman fiber amplifier. Optics Express, 2021, 29, 16175.	3.4	13
42	Ring-up-doped fiber for the generation of more than 600â€‰â€‰W single-mode narrow-band output at 1018â€‰â€‰nm. Optics Letters, 2019, 44, 2502.	3.3	13
43	Monitoring data-driven Reinforcement Learning controller training: A comparative study of different training strategies for a real-world energy system. Energy and Buildings, 2021, 239, 110856.	6.7	12
44	Application of data-driven methods for energy system modelling demonstrated on an adaptive cooling supply system. Energy, 2021, 230, 120894.	8.8	12
45	Diamond Raman oscillator operating at 1178â€‰â€‰nm. Optics Letters, 2020, 45, 2898.	3.3	11
46	Multi-kW performance analysis of Yb-doped monolithic single-mode amplifier and oscillator setup. , 2019, , .		10
47	High-energy Q-switched 16-core tapered rod-type fiber laser system. Optics Letters, 2022, 47, 1725.	3.3	10
48	IS NONLINEARITY EVIDENT IN TIME SERIES OF BRAIN ELECTRICAL ACTIVITY?. , 2000, , .		8
49	High power sub-ps pulse generation by compression of a frequency comb obtained by a nonlinear broadened two colored seed. Optics Express, 2017, 25, 16476.	3.4	6
50	High-power fiber laser materials: influence of fabrication methods and codopants on optical properties. , 2019, , .		6
51	Highly customized 1010â€…nm, ns-pulsed Yb-doped fiber amplifier as a key tool for on-demand single-photon generation. Optics Express, 2020, 28, 17362.	3.4	6
52	Laser cooling experiments to measure the quantum efficiency of Yb-doped silica fibers. Optics Letters, 2022, 47, 3608.	3.3	6
53	NONPARAMETRIC DETECTION OF DEPENDENCES IN STOCHASTIC POINT PROCESSES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1987-1993.	1.7	4
54	Optoelectronic packaging based on laser joining. Proceedings of SPIE, 2008, , .	0.8	4

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55	Continuous-wave cascaded second Stokes diamond Raman laser at 1477â€‰â€‰nm. Optics Letters, 2021, 46, 1333.	3.3	4
56	All-Solution Doping Technique for Tailoring Core Composition toward Yb:AlPO4:SiO2. , 2015, , .		4
57	Quantum-limited measurements of intensity noise levels in Yb-doped fiber amplifiers. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	3
58	Observation of anti-Stokes fluorescence cooling of ytterbium-doped silica glass (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622		3
59	SURROGATE DATA FOR NONâ€“STATIONARY SIGNALS. , 2000, , .		3
60	Optimization of a Diode-Pumped Thulium Fiber Laser with a Monolithic Cavity towards 278 W at 1967 nm. , 2015, , .		3
61	TMI investigations of very low NA Yb-doped fibers and scaling to extreme stable 4.4 kW single-mode output. , 2017, , .		3
62	Simplified, athermal fiber designs for high power laser applications. , 2021, , .		2
63	1 kW average power emission from an in-house 4x4 multicore rod-type fiber. , 2021, , .		2
64	Detailed investigations on thermal mode instabilities in LMA Yb-doped fibers. , 2017, , .		1
65	Active materials for high-power fiber lasers prepared by all-solution doping technique. , 2018, , .		1
66	Fabrication of longitudinally arbitrary shaped fiber tapers. , 2018, , .		1
67	High-power single-pass pumped diamond Raman laser. , 2017, , .		0
68	Optical heterodyne detection for spectral characterization of few longitudinal mode fiber lasers. , 2017, , .		0
69	High Power 2nd Stokes Diamond Raman Optical Frequency Conversion. , 2019, , .		0
70	Commissioning of a Highly Customized 1010 nm, ns-Pulsed, Yb-Doped Fiber Amplifier for On-Demand Single-Photon Generation. , 2021, , .		0
71	Transverse Mode Instability Threshold Manipulation in a Core-Pumped Raman Amplifier. , 2021, , .		0
72	Q-Switched Rod-Type Multicore Fibre Laser Delivering 3.1 mJ Pulses. , 2021, , .		0

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73	Laser cooling of ytterbium-doped silica glass by more than 6 Kelvin. , 2021, , .		0
74	Quantum Limits of Coherent Beam Combining. , 2018, , .		0
75	High power 1st and 2nd Stokes diamond Raman frequency conversion. , 2018, , .		0
76	High-power single-pass pumped diamond Raman oscillator. , 2018, , .		0
77	High-power single-pass pumped diamond Raman oscillator. , 2018, , .		0
78	High power 2nd Stokes diamond Raman optical frequency conversion. , 2019, , .		0