Cesar Jauregui

List of Publications by Year in descending order

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Version: 2024-02-01

		87723	102304
111	5,793	38	66
papers	citations	h-index	g-index
111	111	111	2072
all docs	docs citations	times ranked	citing authors

#	Article	lF	CITATIONS
1	500â€W rod-type 4 × 4 multicore ultrafast fiber laser. Optics Letters, 2022, 47, 345.	1.7	15
2	High-energy Q-switched 16-core tapered rod-type fiber laser system. Optics Letters, 2022, 47, 1725.	1.7	10
3	Experimental analysis of Raman-induced transverse mode instability in a core-pumped Raman fiber amplifier. Optics Express, 2021, 29, 16175.	1.7	13
4	Transverse mode instability and thermal effects in thulium-doped fiber amplifiers under high thermal loads. Optics Express, 2021, 29, 14963.	1.7	13
5	Transverse Mode Instability in High-Power Fiber Laser Systems: a "Hot Topic". , 2021, , .		O
6	1 kW average power emission from an in-house 4x4 multicore rod-type fiber. , 2021, , .		2
7	Control and stabilization of the modal content of fiber amplifiers using traveling waves. Optics Express, 2021, 29, 34452.	1.7	1
8	Average-Power Scaling of Gas-Plasma Generated THz Radiation. , 2021, , .		0
9	Intensity noise as a driver for transverse mode instability in fiber amplifiers. PhotoniX, 2020, 1 , .	5.5	41
10	Transverse mode instability. Advances in Optics and Photonics, 2020, 12, 429.	12.1	174
11	Ultrafast Tm-doped fiber CPA system delivering GW-level peak power pulses at > 100 W average power. , 2020, , .		O
12	Pump-Power-Noise Influence on Mode Instabilities in High-Power Fiber Laser Systems. , 2019, , .		1
13	The Impact of Fiber Core Design and Thermally-Induced Phase Shifts on the Threshold of Mode Instabilities. , 2019, , .		О
14	Ultrafast Tm-Doped Fiber Amplifier with 1 kW Average Output Power. , 2019, , .		3
15	High Performance Ultrafast Thulium-Doped Fiber Lasers. , 2019, , .		О
16	Relative amplitude noise transfer function of an Yb ³⁺ -doped fiber amplifier chain. Optics Express, 2019, 27, 17041.	1.7	13
17	Transverse single-mode operation in a passive large pitch fiber with more than 200  μm mode-field diameter. Optics Letters, 2019, 44, 650.	1.7	23
18	Coherent Beam Combination of Ultrafast Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	1.9	56

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19	Modal energy transfer by thermally induced refractive index gratings in Yb-doped fibers. Light: Science and Applications, 2018, 7, 59.	7.7	46
20	Watt-scale super-octave mid-infrared intrapulse difference frequency generation. Light: Science and Applications, 2018, 7, 94.	7.7	101
21	Thermal analysis of Yb-doped high-power fiber amplifiers with Al:P co-doped cores. Optics Express, 2018, 26, 7614.	1.7	11
22	Pump-modulation-induced beam stabilization in high-power fiber laser systems above the mode instability threshold. Optics Express, 2018, 26, 10691.	1.7	42
23	Phase-shift evolution of the thermally-induced refractive index grating in high-power fiber laser systems induced by pump-power variations. Optics Express, 2018, 26, 19489.	1.7	24
24	Quantum Limits of Coherent Beam Combining. , 2018, , .		0
25	Ultra-large mode area fibers for high power lasers. , 2018, , .		4
26	Controlling mode instabilities at $628W$ average output power in an Yb-doped rod-type fiber amplifier by active modulation of the pump power. Proceedings of SPIE, 2017, , .	0.8	1
27	Experimental investigation of transverse mode instabilities in a double-pass Yb-doped rod-type fiber amplifier. Proceedings of SPIE, 2017, , .	0.8	9
28	The impact of core co-dopants on the mode instability threshold of high-power fiber laser systems. Proceedings of SPIE, 2017, , .	0.8	1
29	Fully automated all-fiber widely-tunable optical-parametric-oscillator laser system. , 2017, , .		0
30	The impact of the fiber design on the RIN characteristics of high-power fiber laser systems. , 2017, , .		0
31	Dependence of the mode instability threshold of high-power fiber laser systems on core co-dopants., 2017,,.		1
32	Mitigation of mode instabilities in high-power fiber laser systems by active modulation of the pump power. , 2017, , .		5
33	Multi-GW, 100 fs thulium-doped fiber laser system for high-harmonic generation at high repetition rates. , 2017, , .		2
34	Optimizing high-power Yb-doped fiber amplifier systems in the presence of transverse mode instabilities. Optics Express, 2016, 24, 7879.	1.7	57
35	Optimizing large-pitch fibers for higher average powers. Proceedings of SPIE, 2016, , .	0.8	2
36	Average power limit of fiber-laser systems with nearly diffraction-limited beam quality. Proceedings of SPIE, 2016, , .	0.8	17

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37	Optimizing the mode instability threshold of high-power fiber laser systems. Proceedings of SPIE, 2016,	0.8	O
38	Self-compression to 24 MW peak power in a fused silica solid-core fiber using a high-repetition rate thulium-based fiber laser system. Proceedings of SPIE, 2016 , , .	0.8	0
39	Fiberâ€based light sources for biomedical applications of coherent antiâ€Stokes Raman scattering microscopy. Laser and Photonics Reviews, 2015, 9, 435-451.	4.4	61
40	Wavelength dependence of maximal diffraction-limited output power of fiber lasers. Proceedings of SPIE, 2015 , , .	0.8	2
41	Tm-based fiber-laser system with more than 200  MW peak power. Optics Letters, 2015, 40, 9.	1.7	66
42	Sub-700fs pulses at 152 W average power from a Tm-doped fiber CPA system. Proceedings of SPIE, 2015, , .	0.8	1
43	Peak power scaling of thulium-doped ultrafast fiber laser systems. , 2015, , .		0
44	Recent progress in the understanding of mode instabilities. Proceedings of SPIE, 2015, , .	0.8	2
45	Impact of photodarkening on the mode instability threshold. Optics Express, 2015, 23, 15265.	1.7	135
46	Simplified modelling the mode instability threshold of high power fiber amplifiers in the presence of photodarkening. Optics Express, 2015, 23, 20203.	1.7	122
47	Mode Instabilities in High-Power Bidirectional Fiber Amplifiers and Lasers. , 2015, , .		6
48	Nonlinear compression of ultrashort pulses from a high repetition rate Tm-doped fiber laser to sub-5 cycle duration. , 2015 , , .		0
49	Breaking the symmetry for enhanced higher-order mode delocalization. , 2014, , .		3
50	4-fold Increase of the Mode-instability Threshold in an Yb-doped Multi-core Fiber Amplifier Emitting 536 W. , 2014, , .		0
51	The impact of photodarkening on mode instabilities in high-power fiber laser systems. , 2014, , .		3
52	Designing advanced very-large-mode-area fibers for power scaling of fiber-laser systems. Optica, 2014, 1, 233.	4.8	114
53	Wavelength Dependence of Maximal Diffraction-Limited Output Power of Fiber Lasers. , 2014, , .		10
54	Yb-doped Rod-type Fiber Amplifier with 2 kW Average Power. , 2014, , .		0

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55	Scaling the mode instability threshold with multicore fibers. Optics Letters, 2014, 39, 2680.	1.7	60
56	High gain ytterbium doped Ge pedestal large pitch fiber. , 2014, , .		0
57	Performance Scaling of Ultrafast Laser Systems by Coherent Addition of Femtosecond Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 268-277.	1.9	35
58	2  kW average power from a pulsed Yb-doped rod-type fiber amplifier. Optics Letters, 2014, 39, 6446.	1.7	56
59	Triple-clad large-pitch fibers for compact high-power pulsed fiber laser systems. Optics Letters, 2014, 39, 209.	1.7	25
60	152  W average power Tm-doped fiber CPA system. Optics Letters, 2014, 39, 4671.	1.7	85
61	High-power fibre lasers. Nature Photonics, 2013, 7, 861-867.	15.6	924
62	Passive mitigation strategies for mode instabilities in high-power fiber laser systems. Optics Express, 2013, 21, 19375.	1.7	87
63	Mitigation of mode instabilities by dynamic excitation of fiber modes. Proceedings of SPIE, 2013, , .	0.8	5
64	24ÂmJ, 33ÂW Q-switched Tm-doped fiber laser with near diffraction-limited beam quality. Optics Letters, 2013, 38, 97.	1.7	74
65	Controlling mode instabilities by dynamic mode excitation with an acousto-optic deflector. Optics Express, 2013, 21, 17285.	1.7	72
66	Analysis of passively combined divided-pulse amplification as an energy-scaling concept. Optics Express, 2013, 21, 29031.	1.7	40
67	High-power thermally guiding index-antiguiding-core fibers. Optics Letters, 2013, 38, 510.	1.7	24
68	Improved Modal Reconstruction for Spatially and Spectrally Resolved Imaging $(m S^{2})$. Journal of Lightwave Technology, 2013, 31, 1295-1299.	2.7	17
69	Mitigation strategies for mode instabilities in high-power fiber-laser systems. , 2013, , .		0
70	Fiber amplifier CPA system using divided-pulse amplification for multi-mJ extraction. , 2013, , .		0
71	Radial and azimuthal polarized all-fiber Raman oscillator. , 2013, , .		0
72	58 mJ burst containing ultra-short pulses with homogenous energy level from an Yb-doped fiber amplifier. , 2013, , .		0

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73	Mode instabilities: physical origin and mitigation strategies. Proceedings of SPIE, 2013, , .	0.8	O
74	Four-fold increase of the mode instability threshold with a multi-core photonic crystal fiber. , 2013, , .		2
75	Dependence of Mode Instabilities on the Extracted Power of Fiber Laser Systems. , 2013, , .		3
76	Recent Progress in the Understanding and Mitigation of Mode Instabilities. , 2013, , .		1
77	Dynamics and Origin of Mode Instabilities in High Power Fiber Laser Amplifiers. , 2012, , .		2
78	Temperature-induced index gratings and their impact on mode instabilities in high-power fiber laser systems. Optics Express, 2012, 20, 440.	1.7	78
79	Fiber-based source for multiplex-CARS microscopy based on degenerate four-wave mixing. Optics Express, 2012, 20, 12004.	1.7	36
80	Widely tuneable fiber optical parametric amplifier for coherent anti-Stokes Raman scattering microscopy. Optics Express, 2012, 20, 26583.	1.7	63
81	26 mJ, 130 W Q-switched fiber-laser system with near-diffraction-limited beam quality. Optics Letters, 2012, 37, 1073.	1.7	137
82	Thermally induced waveguide changes in active fibers. Optics Express, 2012, 20, 3997.	1.7	108
83	Physical origin of mode instabilities in high-power fiber laser systems. Optics Express, 2012, 20, 12912.	1.7	200
84	58ÂmJ burst comprising ultrashort pulses with homogenous energy level from an Yb-doped fiber amplifier. Optics Letters, 2012, 37, 5169.	1.7	39
85	Temporal dynamics of mode instabilities in high-power fiber lasers and amplifiers. Optics Express, 2012, 20, 15710.	1.7	231
86	High-power efficient generation of visible and mid-infrared radiation exploiting four-wave-mixing in optical fibers. Optics Express, 2012, 20, 24957.	1.7	31
87	High-power very large mode-area thulium-doped fiber laser. Optics Letters, 2012, 37, 4546.	1.7	46
88	High power Q-switched fiber laser system emitting 26 mJ pulses with near diffraction-limited beam quality. , 2012, , .		0
89	On the thermal origin of mode instabilities in high power fiber lasers. , 2012, , .		3
90	All-fiber laser source for CARS microscopy based on fiber optical parametric frequency conversion. Optics Express, 2012, 20, 4484.	1.7	98

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91	26-mJ pulse energy Q-switched large-pitch fiber laser system with excellent beam quality. Proceedings of SPIE, 2012, , .	0.8	2
92	High power Q-switched Fiber Laser System delivering 22mJ Pulse Energy with Excellent Beam Quality. , 2012, , .		0
93	Yb-doped large-pitch fibres: effective single-mode operation based on higher-order mode delocalisation. Light: Science and Applications, 2012, 1, e8-e8.	7.7	251
94	Thermally induced index gratings in few-mode high-power fiber laser systems. , 2012, , .		0
95	All-fiber parametric generation of sub-100ps pulses at 650nm with 9Watt average power. , 2012, , .		1
96	Thermal Waveguide Changes in High Power Fiber Lasers. , 2012, , .		0
97	Experimental Study of Mode Instabilities in High Power Fiber Amplifiers. , 2012, , .		0
98	Recent Developments in Fiber Lasers and Mode Stability Issues in LMA Fibers. , 2012, , .		0
99	Fiber chirped-pulse amplification system emitting 38 GW peak power. Optics Express, 2011, 19, 255.	1.7	243
100	The impact of modal interference on the beam quality of high-power fiber amplifiers. Optics Express, 2011, 19, 3258.	1.7	202
101	Preferential gain photonic-crystal fiber for mode stabilization at high average powers. Optics Express, 2011, 19, 8656.	1.7	46
102	Non-hexagonal Large-Pitch Fibers for enhanced mode discrimination. Optics Express, 2011, 19, 12081.	1.7	29
103	Experimental observations of the threshold-like onset of mode instabilities in high power fiber amplifiers. Optics Express, 2011, 19, 13218.	1.7	541
104	Avoided crossings in photonic crystal fibers. Optics Express, 2011, 19, 13578.	1.7	56
105	High average power large-pitch fiber amplifier with robust single-mode operation. Optics Letters, 2011, 36, 689.	1.7	185
106	High-speed modal decomposition of mode instabilities in high-power fiber lasers. Optics Letters, 2011, 36, 4572.	1.7	151
107	High power 100fs fiber oscillator. , 2011, , .		0
108	Impact of modal interference on high-power fiber laser systems. Proceedings of SPIE, 2011, , .	0.8	0

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109	The influence of index-depressions in core-pumped Yb-doped large pitch fibers. Optics Express, 2010, 18, 26834.	1.7	85
110	Derivation of Raman treshold formulas for CW double-clad fiber amplifiers. Optics Express, 2009, 17, 8476.	1.7	59
111	94 W 980 nm high brightness Yb-doped fiber laser. Optics Express, 2008, 16, 17310.	1.7	147