Jesper LÃ¦gsgaard

List of Publications by Year
in descending order

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Version: 2024-02-01

76	2,703	186265	182427
papers	citations	28 h-index	51 g-index

77	77	77	1806
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	All-optical modulation in dye-doped nematic liquid crystal photonic bandgap fibers. Optics Express, 2004, 12, 5857.	3.4	291
2	Hollow-core fibers for high power pulse delivery. Optics Express, 2016, 24, 7103.	3.4	200
3	Stain-free histopathology by programmable supercontinuum pulses. Nature Photonics, 2016, 10, 534-540.	31.4	177
4	Theoretical analysis of mode instability in high-power fiber amplifiers. Optics Express, 2013, 21, 1944.	3.4	152
5	Thermally induced mode coupling in rare-earth doped fiber amplifiers. Optics Letters, 2012, 37, 2382.	3.3	122
6	Distributed mode filtering rod fiber amplifier delivering 292W with improved mode stability. Optics Express, 2012, 20, 5742.	3.4	122
7	Photonic crystal fiber design for broadband directional coupling. Optics Letters, 2004, 29, 2473.	3.3	91
8	Electrically and mechanically induced long period gratings in liquid crystal photonic bandgap fibers. Optics Express, 2007, 15, 7901.	3.4	90
9	Thermo-optical effects in high-power Ytterbium-doped fiber amplifiers. Optics Express, 2011, 19, 23965.	3.4	82
10	Impact of gain saturation on the mode instability threshold in high-power fiber amplifiers. Optics Express, 2014, 22, 11267.	3.4	69
11	Avoided-crossing-based liquid-crystal photonic-bandgap notch filter. Optics Letters, 2008, 33, 986.	3.3	63
12	Mode areas and field-energy distribution in honeycomb photonic bandgap fibers. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2037.	2.1	59
13	Microstructured Optical Fibers-Fundamentals and Applications. Journal of the American Ceramic Society, 2006, 89, 2-12.	3.8	58
14	Chromatic dispersion in photonic crystal fibers: fast and accurate scheme for calculation. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 443.	2.1	53
15	Optimizing single mode robustness of the distributed modal filtering rod fiber amplifier. Optics Express, 2012, 20, 7263.	3.4	50
16	Nonlinear polarization dynamics in a weakly birefringent all-normal dispersion photonic crystal fiber: toward a practical coherent fiber supercontinuum laser. Optics Express, 2012, 20, 1113.	3.4	49
17	Frequency resolved transverse mode instability in rod fiber amplifiers. Optics Express, 2013, 21, 21847.	3.4	47
18	Monolithic all-PM femtosecond Yb-fiber laser stabilized with a narrow-band fiber Bragg grating and pulse-compressed in a hollow-core photonic crystal fiber. Optics Express, 2008, 16, 14004.	3.4	44

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19	How long wavelengths can one extract from silica-core fibers?. Optics Letters, 2013, 38, 4518.	3.3	44
20	Integrating liquid crystal based optical devices in photonic crystal fibers. Optical and Quantum Electronics, 2007, 39, 1009-1019.	3.3	42
21	Control of the wavelength dependent thermo-optic coefficients in structured fibres. Optics Express, 2006, 14, 6428.	3.4	40
22	Photonic Structures. Optics and Photonics News, 2005, 16, 36.	0.5	38
23	Static thermo-optic instability in double-pass fiber amplifiers. Optics Express, 2016, 24, 13429.	3.4	38
24	All-fiber femtosecond Cherenkov radiation source. Optics Letters, 2012, 37, 2769.	3.3	36
25	Q-switching and efficient harmonic generation from a single-mode LMA photonic bandgap rod fiber laser. Optics Express, 2011, 19, 10824.	3.4	35
26	Estimating modal instability threshold for photonic crystal rod fiber amplifiers. Optics Express, 2013, 21, 15409.	3.4	35
27	Highly-stable monolithic femtosecond Yb-fiber laser system based on photonic crystal fibers. Optics Express, 2010, 18, 15475.	3.4	34
28	Scalar generalized nonlinear SchrÃ¶dinger equation-quantified continuum generation in an all-normal dispersion photonic crystal fiber for broadband coherent optical sources. Optics Express, 2010, 18, 27872.	3.4	28
29	Progress in Cherenkov femtosecond fiber lasers. Journal Physics D: Applied Physics, 2016, 49, 023001.	2.8	27
30	Efficient simulation of multimodal nonlinear propagation in step-index fibers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2266.	2.1	26
31	Tuning quadratic nonlinear photonic crystal fibers for zero group-velocity mismatch. Optics Letters, 2006, 31, 1612.	3.3	25
32	Bright broadband coherent fiber sources emitting strongly blue-shifted resonant dispersive wave pulses. Optics Express, 2013, 21, 23188.	3.4	25
33	Spatial beam cleanup by pure Kerr processes in multimode fibers. Optics Letters, 2018, 43, 2700.	3.3	25
34	Self-stabilization of a mode-locked femtosecond fiber laser using a photonic bandgap fiber. Optics Letters, 2010, 35, 913.	3.3	24
35	Degenerate four wave mixing in large mode area hybrid photonic crystal fibers. Optics Express, 2013, 21, 18111.	3.4	23
36	Degenerate four wave mixing in solid core photonic bandgap fibers. Optics Express, 2008, 16, 4059.	3.4	22

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37	Intermodal and cross-polarization four-wave mixing in large-core hybrid photonic crystal fibers. Optics Express, 2015, 23, 5954.	3.4	21
38	Optical frequency standard using acetylene-filled hollow-core photonic crystal fibers. Optics Express, 2015, 23, 11227.	3.4	21
39	Poor-manâ€™s model of hollow-core anti-resonant fibers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 69.	2.1	21
40	Reduction of coupling loss to photonic crystal fibers by controlled hole collapse: a numerical study. Optics Communications, 2004, 237, 431-435.	2.1	19
41	Doped photonic bandgap fibers for short-wavelength nonlinear devices. Optics Letters, 2003, 28, 783.	3.3	18
42	Hybrid Ytterbium-doped large-mode-area photonic crystal fiber amplifier for long wavelengths. Optics Express, 2012, 20, 6010.	3.4	18
43	Nonlinearity-tailored fiber laser technology for low-noise, ultra-wideband tunable femtosecond light generation. Photonics Research, 2017, 5, 750.	7.0	18
44	Tailoring the dispersion properties of photonic crystal fibers. Optical and Quantum Electronics, 2007, 39, 995-1008.	3.3	16
45	Polarization switch of four-wave mixing in large mode area hybrid photonic crystal fibers. Optics Letters, 2015, 40, 487.	3.3	15
46	Low-Noise Operation of All-Fiber Femtosecond Cherenkov Laser. IEEE Photonics Technology Letters, 2013, 25, 892-895.	2.5	14
47	Static and dynamic mode coupling in a double-pass rod-type fiber amplifier. Optics Letters, 2018, 43, 5535.	3.3	14
48	Theory of adiabatic pressure-gradient soliton compression in hollow-core photonic bandgap fibers. Optics Letters, 2009, 34, 3710.	3.3	12
49	Modeling of nonlinear propagation in fiber tapers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3183.	2.1	12
50	Theory of thermo-optic instabilities in dual-core fiber amplifiers. Optics Letters, 2018, 43, 4775.	3.3	12
51	Spatiotemporal control of light by Bloch-mode dispersion in multi-core fibers. Optics Express, 2008, 16, 5878.	3.4	11
52	Static and dynamic mode instabilities in dual-core fiber amplifiers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 757.	2.1	11
53	Thermal Effects on Modal Properties of Dual-Core Yb-Doped Fibers. Journal of Lightwave Technology, 2019, 37, 1075-1083.	4.6	8
54	Large-mode-area hybrid photonic crystal fiber amplifier at 1178â€‰â€‰nm. Optics Letters, 2015, 40, 1741.	3.3	7

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55	High gain in a dual-pass rod-type fiber amplifier. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 451.	2.1	7
56	Experimental investigations of seeding mechanisms of TMI in rod fiber amplifier using spatially and temporally resolved imaging. Optics Express, 2020, 28, 26690.	3.4	7
57	Cross-correlated imaging of single-mode photonic crystal rod fiber with distributed mode filtering. Optics Express, 2013, 21, 9215.	3.4	6
58	Scaling relations for soliton compression and dispersive-wave generation in tapered optical fibers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 783.	2.1	6
59	Power scaling of dispersive-wave generation in higher-order optical fiber modes. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2637.	2.1	4
60	Multimode nonlinear simulation technique having near-linear scaling with mode number in circular symmetric waveguides. Optics Letters, 2020, 45, 4160.	3.3	4
61	Flexible cross-correlated (C^2) imaging method for the modal content characterization in a broad range of wavelengths. Optics Express, 2017, 25, 5521.	3.4	3
62	The Bowtie Effect in Cylindrical Waveguides. Journal of Lightwave Technology, 2018, 36, 3309-3317.	4.6	3
63	Cherenkov radiation from 1550â€‰â€‰nm pumping in tapered photonic crystal fibers. Optics Letters, 2018, 43, 2744.	3.3	3
64	Extended parametric gain range in photonic crystal fibers with strongly frequency-dependent field distributions. Optics Letters, 2014, 39, 4891.	3.3	2
65	Fiber Optics. Optics and Photonics News, 2004, 15, 26.	0.5	1
66	Millijoule pulse energy second harmonic generation with single-stage photonic bandgap rod fiber laser. , 2011, , .		1
67	Observation of dynamical eigenmodes induced by the moving refractive index grating of TMI in a rod amplifier. Optics Letters, 2021, 46, 5755-5758.	3.3	1
68	Novel high-speed camera analysis of transverse mode instabilities in rod fiber amplifiers. , 2020, , .		1
69	Monolithic all-PM femtosecond Yb-doped fiber laser using photonic bandgap fibers. , 2009, , .		0
70	Optical fiber-based devices and applications. Frontiers of Optoelectronics in China, 2010, 3, 1-1.	0.2	0
71	Nonlinear propagation in higher-order modes of microstructured optical fibers. , 2020, , .		0
72	Heat Load Influence on Supermodes in Yb-Doped Four-Core Fibers. Journal of Lightwave Technology, 2021, 39, 263-269.	4.6	0

#	ARTICLE	IF	CITATIONS
73	Quantifying the impact of pump noise on fiber-optic nonlinear processes. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1538.	2.1	0
74	Designing fiber tapers for tunable dispersive-wave generation from agile Yb-based pump lasers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1433.	2.1	0
75	Thermo-optic instabilities in asymmetric dual-core amplifiers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1494.	2.1	0
76	Power scaling of normal-dispersion continuum generation using higher-order modes in microstructured optical fibers. Optics Letters, 2022, 47, 698.	3.3	0