David J Richardson

List of Publications by Year
in descending order

730 papers	35,622 citations	2675 95 h-index	6471 157 g-index
732 all docs	732 docs citations	732 times ranked	15710 citing authors

#	Article	IF	Citations
1	The generation of femtosecond optical vortex beams with megawatt powers directly from a fiber based Mamyshev oscillator. Nanophotonics, 2022, 11, 847-854.	6.0	16
2	Widely Tunable Actively Mode-Locked Bi-Doped Fiber Laser Operating in the O-Band. IEEE Photonics Technology Letters, 2022, 34, 711-714.	2.5	3
3	Hollow-core fiber delivery of broadband mid-infrared light for remote spectroscopy. Optics Express, 2022, 30, 7044.	3.4	7
4	Broadband Mode Scramblers for Few-Mode Fibers Based on 3D Printed Mechanically Induced Long-Period Fiber Gratings. IEEE Photonics Technology Letters, 2022, 34, 169-172.	2.5	1
5	ML-Assisted Equalization for 50-Gb/s/Î» O-Band CWDM Transmission Over 100-km SMF. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	6
6	Hollow-core fiber Fabryâ€“Perot interferometers with reduced sensitivity to temperature. Optics Letters, 2022, 47, 2510.	3.3	4
7	0.174 dB/km Hollow Core Double Nested Antiresonant Nodeless Fiber (DNANF). , 2022, , .		65
8	Comparison between the Optical Performance of Photonic Bandgap and Antiresonant Hollow Core Fibers after Long-Term Exposure to the Atmosphere. , 2022, , .		1
9	Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001.	2.2	27
10	High-energy, mid-IR, picosecond fiber-feedback optical parametric oscillator. Optics Letters, 2022, 47, 3600.	3.3	4
11	Super-broadband on-chip continuous spectral translation unlocking coherent optical communications beyond conventional telecom bands. Nature Communications, 2022, 13, .	12.8	18
12	Temperature-insensitive delay-line fiber interferometer. , 2021, , .		2
13	Hollow core fiber temperature sensitivity reduction via winding on a thermally-insensitive coil. , 2021, , .		2
14	Ultra-Broadband Bismuth-Doped Fiber Amplifier Covering a 115-nm Bandwidth in the O and E Bands. Journal of Lightwave Technology, 2021, 39, 795-800.	4.6	59
15	Transmission of 61 C-Band Channels Over Record Distance of Hollow-Core-Fiber With L-Band Interferers. Journal of Lightwave Technology, 2021, 39, 813-820.	4.6	25
16	High Gain, Low Noise, Spectral-Gain-Controlled, Broadband Lumped Fiber Raman Amplifier. Journal of Lightwave Technology, 2021, 39, 1458-1463.	4.6	13
17	Optical Fiber Delay Lines in Microwave Photonics: Sensitivity to Temperature and Means to Reduce it. Journal of Lightwave Technology, 2021, 39, 2311-2318.	4.6	10
18	High-power, electronically controlled source of user-defined vortex and vector light beams based on a few-mode fiber amplifier. Photonics Research, 2021, 9, 856.	7.0	12

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19	Polarization Effects on Thermally Stable Latency in Hollow-Core Photonic Bandgap Fibers. Journal of Lightwave Technology, 2021, 39, 2142-2150.	4.6	5
20	Low loss and high performance interconnection between standard single-mode fiber and antiresonant hollow-core fiber. Scientific Reports, 2021, 11, 8799.	3.3	42
21	Experimental characterization of an o-band bismuth-doped fiber amplifier. Optics Express, 2021, 29, 15345.	3.4	16
22	Numerical and experimental study on the impact of chromatic dispersion on O-band direct-detection transmission. Applied Optics, 2021, 60, 4383.	1.8	12
23	4-Level Alternate-Mark-Inversion for Reach Extension in the O-Band Spectral Region. Journal of Lightwave Technology, 2021, 39, 2847-2853.	4.6	4
24	Compact chirped-pulse amplification systems based on highly Tm³⁺-doped germanate fiber. Optics Letters, 2021, 46, 3013.	3.3	7
25	Bi-doped fiber amplifiers for ultra-wideband optical communication systems. , 2021, , .		1
26	Finesse Limits in Hollow Core Fiber based Fabry-Perot interferometers. Journal of Lightwave Technology, 2021, 39, 4489-4495.	4.6	5
27	Interconnecting hollow-core fibers. , 2021, , .		0
28	Lowâ€Latency WDM Intensityâ€Modulation and Directâ€Detection Transmission Over >100Âkm Distances in a Hollow Core Fiber. Laser and Photonics Reviews, 2021, 15, 2100102.	8.7	7
29	Thinly coated hollow core fiber for improved thermal phase-stability performance. Optics Letters, 2021, 46, 5177.	3.3	12
30	Hollow-Core NANF for High-Speed Short-Reach Transmission in the S+C+L-Bands. Journal of Lightwave Technology, 2021, 39, 6167-6174.	4.6	9
31	2-Î¼m-band Coherent Transmission of Nyquist-WDM 16-QAM Signal by On-chip Spectral Translation. , 2021, , .		1
32	Recent Breakthroughs in Hollow Core Fiber Technology. , 2021, , .		5
33	Amplified O-band direct-detection transmission using bismuth-doped fiber amplifiers. , 2021, , .		0
34	100 Gbit/s PAM-16 Transmission in the 2-Âµm Band over a 1.15-km Hollow-Core Fiber. , 2021, , .		1
35	Transmission Of Frequency Comb Over 7.7 km Of Hollow Core Fiber. , 2021, , .		0
36	Experimental Demonstration of 50-Gb/s/Z O-band CWDM Direct-Detection Transmission over 100-km SMF. , 2021, , .		0

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37	Ultra-wideband IM/DD Transmission over Hollow-core Fibres. , 2021, , .		1
38	Hollow Core NANFs with Five Nested Tubes and Record Low Loss at 850, 1060, 1300 and 1625nm. , 2021, , .		22
39	High-energy, mid-IR, picosecond fiber-feedback OPO. , 2021, , .		0
40	High-power, high-efficiency, all-fiberized-laser-pumped, 260-nm, deep-UV laser for bacterial deactivation. Optics Express, 2021, 29, 42485.	3.4	12
41	Polarization Stable Hollow Core Fiber Interferometer With Faraday Rotator Mirrors. IEEE Photonics Technology Letters, 2021, 33, 1503-1506.	2.5	0
42	Multicore and multimode optical amplifiers for space division multiplexing. , 2020, , 301-333.		13
43	Experimental Demonstration of Dual O+C-Band WDM Transmission Over 50-km SSMF With Direct Detection. Journal of Lightwave Technology, 2020, 38, 2278-2284.	4.6	23
44	Role of multiheme cytochromes involved in extracellular anaerobic respiration in bacteria. Protein Science, 2020, 29, 830-842.	7.6	48
45	The Thermal Phase Sensitivity of Both Coated and Uncoated Standard and Hollow Core Fibers Down to Cryogenic Temperatures. Journal of Lightwave Technology, 2020, 38, 2477-2484.	4.6	15
46	Reconfigurable structured light generation in a multicore fibre amplifier. Nature Communications, 2020, 11, 3986.	12.8	47
47	Low Thermal Sensitivity Hollow Core Fiber for Optically-Switched Data Centers. Journal of Lightwave Technology, 2020, 38, 2703-2709.	4.6	12
48	Multiport Fiber Optic Beam Splitters for Space Division Multiplexed (SDM) Systems. IEEE Photonics Technology Letters, 2020, 32, 795-798.	2.5	4
49	Long-Length and Thermally Stable High-Finesse Fabry-Perot Interferometers Made of Hollow Core Optical Fiber. Journal of Lightwave Technology, 2020, 38, 2423-2427.	4.6	19
50	Multi-Band Direct-Detection Transmission Over an Ultrawide Bandwidth Hollow-Core NANF. Journal of Lightwave Technology, 2020, 38, 2849-2857.	4.6	17
51	High Spatial Density 6-Mode 7-Core Fiber Amplifier for L-Band Operation. Journal of Lightwave Technology, 2020, 38, 2938-2943.	4.6	24
52	nosX is essential for whole-cell N2O reduction in Paracoccus denitrificans but not for assembly of copper centres of nitrous oxide reductase. Microbiology (United Kingdom), 2020, 166, 909-917.	1.8	4
53	Compact micro-optic based components for hollow core fibers. Optics Express, 2020, 28, 1518.	3.4	20
54	High-average-power picosecond mid-infrared OP-GaAs OPO. Optics Express, 2020, 28, 5741.	3.4	30

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55	Extruded tellurite antiresonant hollow core fiber for Mid-IR operation. Optics Express, 2020, 28, 16542.	3.4	23
56	Adiabatic higher-order mode microfibers based on a logarithmic index profile. Optics Express, 2020, 28, 19126.	3.4	7
57	High pulse energy fibre laser as an excitation source for photoacoustic tomography. Optics Express, 2020, 28, 34255.	3.4	6
58	Controllable duration and repetition-rate picosecond pulses from a high-average-power OP-GaAs OPO. Optics Express, 2020, 28, 32540.	3.4	9
59	Hollow Core NANF with 0.28 dB/km Attenuation in the C and L Bands. , 2020, , .		69
60	Ultra-low NA step-index large mode area Yb-doped fiber with a germanium doped cladding for high power pulse amplification. Optics Letters, 2020, 45, 3828.	3.3	21
61	Anti-Resonant, Mid-Infrared Silica Hollow-Core Fiber. , 2020, , .		8
62	Highly-Tm3+ doped Hexagonal Clad Germanate Fiber and associated CPA system for 2 Âµm Pulsed Fiber Lasers and Amplifiers. , 2020, , .		0
63	Comparative Investigations between SSMF and Hollow-core NANF for Transmission in the S+C+L-bands. , 2020, , .		2
64	Generation and Coherent Detection of 2-Âµm-band WDM-QPSK Signals by On-chip Spectral Translation. , 2020, , .		1
65	Generation and heterodyne detection of a 2-Î¼m-band 16-QAM signal based on inter-band wavelength conversion. , 2020, , .		0
66	Growth of Ammonium Chloride on Cleaved End-Facets of Hollow Core Fibers. , 2020, , .		2
67	Hollow core fiber Fabry-Perot interferometers with finesse over 3000. , 2020, , .		2
68	Transmission of 61 C-band Channels with L-band Interferers over Record 618km of Hollow-Core-Fiber. , 2020, , .		2
69	Compact picosecond mid-IR PPLN OPO in burst-mode operation. EPJ Web of Conferences, 2020, 243, 18004.	0.3	0
70	Compact picosecond mid-IR PPLN OPO with controllable peak powers. OSA Continuum, 2020, 3, 2741.	1.8	3
71	Toward High Accuracy Positioning in 5G via Passive Synchronization of Base Stations Using Thermally-Insensitive Optical Fibers. IEEE Access, 2019, 7, 113197-113205.	4.2	8
72	Long Length Fibre Fabry-Perot Interferometers and their Applications in Fibre Characterization and Temperature Sensing. , 2019, , .		2

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73	Spectral Difference Interferometry for the Characterization of Optical Media. Laser and Photonics Reviews, 2019, 13, 1900007.	8.7	1
74	NosL is a dedicated copper chaperone for assembly of the Cu_Zcenter of nitrous oxide reductase. Chemical Science, 2019, 10, 4985-4993.	7.4	24
75	Intermodal Bragg-Scattering Four Wave Mixing in Silicon Waveguides. Journal of Lightwave Technology, 2019, 37, 1680-1685.	4.6	19
76	A dual functional redox enzyme maturation protein for respiratory and assimilatory nitrate reductases in bacteria. Molecular Microbiology, 2019, 111, 1592-1603.	2.5	19
77	WDM Transmission With In-Line Amplification at 1.3Î¼m Using a Bi-Doped Fiber Amplifier. Journal of Lightwave Technology, 2019, 37, 1826-1830.	4.6	29
78	Bandwidth enhancement of inter-modal four wave mixing Bragg scattering by means of dispersion engineering. APL Photonics, 2019, 4, 022902.	5.7	20
79	Nonlinear control of coherent absorption and its optical signal processing applications. APL Photonics, 2019, 4, 106109.	5.7	1
80	Fully integrated optical isolators for space division multiplexed (SDM) transmission. APL Photonics, 2019, 4, .	5.7	16
81	Nonlinearity-Free Coherent Transmission in Hollow-Core Antiresonant Fiber. Journal of Lightwave Technology, 2019, 37, 909-916.	4.6	43
82	Fabrication of tubular anti-resonant hollow core fibers: modelling, draw dynamics and process optimization. Optics Express, 2019, 27, 20567.	3.4	51
83	Selective wavelength conversion in a few-mode fiber. Optics Express, 2019, 27, 24072.	3.4	10
84	Ultra-short wavelength operation of thulium-doped fiber amplifiers and lasers. Optics Express, 2019, 27, 36699.	3.4	35
85	Compact, high repetition rate, 42 MW peak power, 1925 nm, thulium-doped fiber chirped-pulse amplification system with dissipative soliton seed laser. Optics Express, 2019, 27, 36741.	3.4	15
86	Highly efficient Â†Tm³⁺ doped germanate large mode area single mode fiber laser. Optical Materials Express, 2019, 9, 4115.	3.0	19
87	Optical Amplifiers for Mode Division Multiplexing. , 2019, , 849-873.		0
88	Lotus-Shaped Negative Curvature Hollow Core Fiber With 10.5 dB/km at 1550 nm Wavelength. Journal of Lightwave Technology, 2018, 36, 1213-1219.	4.6	26
89	Structural modeling of an outer membrane electron conduit from a metal-reducing bacterium suggests electron transfer via periplasmic redox partners. Journal of Biological Chemistry, 2018, 293, 8103-8112.	3.4	51
90	Widely Tunable, Narrow-Linewidth, High-Peak-Power, Picosecond Midinfrared Optical Parametric Amplifier. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-6.	2.9	9

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91	Demonstration of Single-Mode Multicore Fiber Transport Network With Crosstalk-Aware In-Service Optical Path Control. Journal of Lightwave Technology, 2018, 36, 1451-1457.	4.6	9
92	Fibre-optic metadevice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182.	12.8	73
93	Highly efficient frequency doubling and quadrupling of a short-pulsed thulium fiber laser. Applied Physics B: Lasers and Optics, 2018, 124, 59.	2.2	5
94	Pulse energy packing effects on material transport during laser processing of $$<1\|1\|1>$$ < 1 | 1 | 1 > silicon. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	1
95	Fully integrated SDM amplifiers. , 2018, , .		1
96	Ultralow thermal sensitivity of phase and propagation delay in hollow-core fibers. , 2018, , .		1
97	Membrane-spanning electron transfer proteins from electrogenic bacteria: Production and investigation. Methods in Enzymology, 2018, 613, 257-275.	1.0	6
98	Laser frequency stabilization and spectroscopy at 2051 nm using a compact CO₂-filled Kagome hollow core fiber gas-cell system. Optics Express, 2018, 26, 28621.	3.4	15
99	Photonic lantern broadband orbital angular momentum mode multiplexer. Optics Express, 2018, 26, 30042.	3.4	49
100	Optical Amplifiers for Mode Division Multiplexing. , 2018, , 1-25.		1
101	Polarization-Insensitive Four-Wave-Mixing-Based Wavelength Conversion in Few-Mode Optical Fibers. Journal of Lightwave Technology, 2018, 36, 3678-3683.	4.6	16
102	295-kW peak power picosecond pulses from a thulium-doped-fiber MOPA and the generation of watt-level >25-octave supercontinuum extending up to 5 Î¼m. Optics Express, 2018, 26, 6490.	3.4	24
103	Frequency comb generation in a silicon ring resonator modulator. Optics Express, 2018, 26, 790.	3.4	55
104	Nonlinear dynamic of picosecond pulse propagation in atmospheric air-filled hollow core fibers. Optics Express, 2018, 26, 8866.	3.4	35
105	Picosecond all-optical switching and dark pulse generation in a fibre-optic network using a plasmonic metamaterial absorber. Applied Physics Letters, 2018, 113, .	3.3	15
106	Optical Injection-Locked Directly Modulated Lasers for Dispersion Pre-Compensated Direct-Detection Transmission. Journal of Lightwave Technology, 2018, 36, 4967-4974.	4.6	8
107	Ultrafast laser-scanning optical resolution photoacoustic microscopy at up to 2 million A-lines per second. Journal of Biomedical Optics, 2018, 23, 1.	2.6	20
108	106â€‰â€‰W, picosecond Yb-doped fiber MOPA system with a radially polarized output beam. Optics Letters, 2018, 43, 4957.	3.3	38

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109	Virtual Draw of Tubular Hollow-Core Fibers. , 2018, , .		2
110	Recent progress in SDM amplifiers. Proceedings of SPIE, 2017, , .	0.8	0
111	A Tuneable Multi-Core to Single Mode Fiber Coupler. IEEE Photonics Technology Letters, 2017, 29, 591-594.	2.5	9
112	Low-Loss 25.3 km Few-Mode Ring-Core Fiber for Mode-Division Multiplexed Transmission. Journal of Lightwave Technology, 2017, 35, 1363-1368.	4.6	69
113	Optical Orbital Angular Momentum Amplifier Based on an Air-Hole Erbium-Doped Fiber. Journal of Lightwave Technology, 2017, 35, 430-436.	4.6	53
114	Optical Predistortion Enabling Phase Preservation in Optical Signal Processing Demonstrated in FWM-Based Amplitude Limiter. Journal of Lightwave Technology, 2017, 35, 963-970.	4.6	5
115	Efficient high-harmonic generation from a stable and compact ultrafast Yb-fiber laser producing 100ÂÎ¼J, 350Âfs pulses based on bendable photonic crystal fiber. Applied Physics B: Lasers and Optics, 2017, 123, 43.	2.2	18
116	Exploring nonlinear pulse propagation, Raman frequency conversion and near octave spanning supercontinuum generation in atmospheric air-filled hollow-core KagomÃ© fiber. Proceedings of SPIE, 2017, , .	0.8	2
117	Long-Haul Dense Space-Division Multiplexed Transmission Over Low-Crosstalk Heterogeneous 32-Core Transmission Line Using a Partial Recirculating Loop System. Journal of Lightwave Technology, 2017, 35, 488-498.	4.6	49
118	Antiresonant Hollow Core Fiber With an Octave Spanning Bandwidth for Short Haul Data Communications. Journal of Lightwave Technology, 2017, 35, 437-442.	4.6	96
119	Data transmissions at 1.98 Âµm in cm-long SiGe waveguides. , 2017, , .		0
120	Analysis of multiple haloarchaeal genomes suggests that the quinoneâ€dependent respiratory nitric oxide reductase is an important source of nitrous oxide in hypersaline environments. Environmental Microbiology Reports, 2017, 9, 788-796.	2.4	19
121	Comparative structure-potentio-spectroscopy of the Shewanella outer membrane multiheme cytochromes. Current Opinion in Electrochemistry, 2017, 4, 199-205.	4.8	22
122	Anisotropic Superattenuation of Capillary Waves on Driven Glass Interfaces. Physical Review Letters, 2017, 119, 235501.	7.8	10
123	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.	3.3	111
124	Mitigation of Nonlinear Effects on WDM QAM Signals Enabled by Optical Phase Conjugation With Efficient Bandwidth Utilization. Journal of Lightwave Technology, 2017, 35, 971-978.	4.6	50
125	The <scp>P</scp>aracoccus denitrificans<scp>N</scp>ar<scp>K</scp>â€like nitrate and nitrite transportersâ€”probing nitrate uptake and nitrate/nitrite exchange mechanisms. Molecular Microbiology, 2017, 103, 117-133.	2.5	30
126	Intermodal Four-Wave Mixing and Parametric Amplification in Kilometer-Long Multimode Fibers. Journal of Lightwave Technology, 2017, 35, 5296-5305.	4.6	24

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127	32-core erbium/ytterbium-doped multicore fiber amplifier for next generation space-division multiplexed transmission system. Optics Express, 2017, 25, 32887.	3.4	54
128	How to make the propagation time through an optical fiber fully insensitive to temperature variations. Optica, 2017, 4, 659.	9.3	49
129	All-optical mode-group multiplexed transmission over a graded-index ring-core fiber with single radial mode. Optics Express, 2017, 25, 13773.	3.4	30
130	Demonstration of arbitrary temporal shaping of picosecond pulses in a radially polarized Yb-fiber MOPA with > 10 W average power. Optics Express, 2017, 25, 15402.	3.4	7
131	Cavity-induced phase noise suppression in a Fabryâ€“Perot modulator-based optical frequency comb. Optics Letters, 2017, 42, 1536.	3.3	9
132	Optical Injection Locking for Carrier Phase Recovery and Regeneration. , 2017, , .		2
133	Beam-Steering All-Optical Switch for Multi-Core Fibers. , 2017, , .		15
134	Modal content in hypocycloid KagomÃ© hollow core photonic crystal fibers. Optics Express, 2016, 24, 15798.	3.4	17
135	Broadband high birefringence and polarizing hollow core antiresonant fibers. Optics Express, 2016, 24, 22943.	3.4	78
136	Broadband silica-based thulium doped fiber amplifier employing multi-wavelength pumping. Optics Express, 2016, 24, 23001.	3.4	20
137	Cavity effect on phase noise of Fabry-Perot modulator-based optical frequency comb. , 2016, , .		1
138	Discrete Multitone Format for Repeater-Less Direct-Modulation Direct-Detection Over 150 km. Journal of Lightwave Technology, 2016, 34, 3223-3229.	4.6	7
139	Wavelength conversion technique for optical frequency dissemination applications. Optics Letters, 2016, 41, 1716.	3.3	5
140	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
141	All-optical Phase Regeneration with Record PSA Extinction Ratio in a Low-birefringence Silicon Germanium Waveguide. Journal of Lightwave Technology, 2016, 34, 3993-3998.	4.6	17
142	High gain holmium-doped fibre amplifiers. Optics Express, 2016, 24, 13946.	3.4	38
143	Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372.	4.6	50
144	Real-Time Modal Analysis via Wavelength- Swept Spatial and Spectral (S²) Imaging. IEEE Photonics Technology Letters, 2016, , 1-1.	2.5	2

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145	An integrated biochemical system for nitrate assimilation and nitric oxide detoxification in Bradyrhizobium japonicum. Biochemical Journal, 2016, 473, 297-309.	3.7	46
146	Multi-kilometer Long, Longitudinally Uniform Hollow Core Photonic Bandgap Fibers for Broadband Low Latency Data Transmission. Journal of Lightwave Technology, 2016, 34, 104-113.	4.6	64
147	Polarization Insensitive Wavelength Conversion in a Low-Birefringence SiGe Waveguide. IEEE Photonics Technology Letters, 2016, 28, 1221-1224.	2.5	8
148	40 Gb/s WDM Transmission Over 1.15-km HC-PBGF Using an InP-Based Mach-Zehnder Modulator at 2 Î¼m. Journal of Lightwave Technology, 2016, 34, 1706-1711.	4.6	30
149	Current status of few mode fiber amplifiers for spatial division multiplexed transmission. Journal of Optics (India), 2016, 45, 275-284.	1.7	7
150	Nondestructive measurement of the roughness of the inner surface of hollow core-photonic bandgap fibers. Optics Letters, 2016, 41, 5086.	3.3	8
151	InP-based Optical Comb-locked Tunable Transmitter. , 2016, , .		12
152	FWM-based Amplitude Limiter Realizing Phase Preservation through Cancellation of SPM Distortions. , 2016, , .		0
153	Applications of nonlinear parametric effects for advanced processing of optical signals. , 2016, , .		0
154	Multi-channel all-optical signal processing based on parametric effects. , 2016, , .		0
155	InP-based Comb-locked Optical Super Channel Transmitter. , 2016, , .		1
156	Radially polarized Yb-fiber MOPA producing 10 W output using SLM based pulse shaping for efficient generation of arbitrary shaped picosecond pulses. , 2016, , .		2
157	Roughness measurements inside hollow glass fibers. , 2016, , .		0
158	Simplified Impulse Response Characterization for Mode Division Multiplexed Systems. , 2016, , .		6
159	Amplification of 12 OAM Modes in an air-core erbium doped fiber. Optics Express, 2015, 23, 28341.	3.4	53
160	Analysis and comparison of intermodal coupling coefficient of standard and hollow core few moded fibres. , 2015, , .		2
161	Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer.. Scientific Reports, 2015, 5, 11677.	3.3	138
162	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. Scientific Reports, 2015, 5, 15447.	3.3	75

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163	Characterization of MtoD from Sideroxydans lithotrophicus: a cytochrome c electron shuttle used in lithoautotrophic growth. Frontiers in Microbiology, 2015, 6, 332.	3.5	48
164	Studying the limits of production rate and yield for the volume manufacturing of hollow core photonic band gap fibers. Optics Express, 2015, 23, 32179.	3.4	7
165	Data transmission through up to 74.8 km of hollow-core fiber with coherent and direct-detect transceivers. , 2015, , .		8
166	Polarization-Assisted Phase-Sensitive Processor. Journal of Lightwave Technology, 2015, 33, 1166-1174.	4.6	34
167	Homodyne OFDM with Optical Injection Locking for Carrier Recovery. Journal of Lightwave Technology, 2015, 33, 34-41.	4.6	47
168	Resolution of Key Roles for the Distal Pocket Histidine in Cytochrome c Nitrite Reductases. Journal of the American Chemical Society, 2015, 137, 3059-3068.	13.7	28
169	High-Capacity Directly Modulated Optical Transmitter for 2-Î¼m Spectral Region. Journal of Lightwave Technology, 2015, 33, 1373-1379.	4.6	65
170	Archon: A Function Programmable Optical Interconnect Architecture for Transparent Intra and Inter Data Center SDM/TDM/WDM Networking. Journal of Lightwave Technology, 2015, 33, 1586-1595.	4.6	58
171	Optical Fourier synthesis of high-repetition-rate pulses. Optica, 2015, 2, 18.	9.3	23
172	41.6 Tbit/s C-Band SDM OFDM Transmission Through 12 Spatial and Polarization Modes Over 74.17 km Few Mode Fiber. Journal of Lightwave Technology, 2015, 33, 1440-1444.	4.6	32
173	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. Water Research, 2015, 71, 21-31.	11.3	69
174	Transmission media for an SDM-based optical communication system. , 2015, 53, 44-51.		50
175	Effects of soluble flavin on heterogeneous electron transfer between surface-exposed bacterial cytochromes and iron oxides. Geochimica Et Cosmochimica Acta, 2015, 163, 299-310.	3.9	41
176	Characterization of Mode Coupling in Few-Mode FBG With Selective Mode Excitation. IEEE Photonics Technology Letters, 2015, 27, 1713-1716.	2.5	49
177	Demonstration of Space-to-Wavelength Conversion in SDM Networks. IEEE Photonics Technology Letters, 2015, 27, 828-831.	2.5	5
178	MicroStructure Element Method (MSEM): viscous flow model for the virtual draw of microstructured optical fibers. Optics Express, 2015, 23, 312.	3.4	34
179	Anti-resonant hexagram hollow core fibers. Optics Express, 2015, 23, 1289.	3.4	36
180	100 Gbit/s WDM transmission at 2 Âµm: transmission studies in both low-loss hollow core photonic bandgap fiber and solid core fiber. Optics Express, 2015, 23, 4946.	3.4	111

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181	Optical injection locking-based amplification in phase-coherent transfer of optical frequencies. Optics Letters, 2015, 40, 4198.	3.3	26
182	Dense WDM transmission at 2â€‰â€‰Î¼m enabled by an arrayed waveguide grating. Optics Letters, 2015, 40, 3308.	3.3	42
183	Fiber-laser-pumped, high-energy, mid-IR, picosecond optical parametric oscillator with a high-harmonic cavity. Optics Letters, 2015, 40, 3288.	3.3	27
184	High-energy, near- and mid-IR picosecond pulses generated by a fiber-MOPA-pumped optical parametric generator and amplifier. Optics Express, 2015, 23, 12613.	3.4	26
185	Accurate modelling of fabricated hollow-core photonic bandgap fibers. Optics Express, 2015, 23, 23117.	3.4	24
186	Experimental Demonstration of Improved Equalization Algorithm for IM/DD Fast OFDM. IEEE Photonics Technology Letters, 2015, 27, 1780-1783.	2.5	9
187	Amplification of 12 OAM States in an Air-Core EDF. , 2015, , .		5
188	Practical Considerations on Discrete Multi-tone Transmission for Cost-effective Access Networks. , 2015, , .		4
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