David J. Richardson

List of Publications by Year
in descending order

1,266 papers	35,725 citations	3531 90 h-index	6836 155 g-index
1269 all docs	1269 docs citations	1269 times ranked	13268 citing authors

#	Article	IF	Citations
1	Space-division multiplexing in optical fibres. Nature Photonics, 2013, 7, 354-362.	31.4	2,606
2	High power fiber lasers: current status and future perspectives [Invited]. Journal of the Optical Society of America B: Optical Physics, 2010, 27, B63.	2.1	1,690
3	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595
4	Hexagonally Poled Lithium Niobate: A Two-Dimensional Nonlinear Photonic Crystal. Physical Review Letters, 2000, 84, 4345-4348.	7.8	468
5	Ultra-low-loss optical fiber nanotapers. Optics Express, 2004, 12, 2258.	3.4	445
6	Selfstarting passively mode-locked fibre ring soliton laser exploiting nonlinear polarisation rotation. Electronics Letters, 1992, 28, 1391.	1.0	432
7	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
8	Functional, biochemical and genetic diversity of prokaryotic nitrate reductases. Cellular and Molecular Life Sciences, 2001, 58, 165-178.	5.4	376
9	Sensing with microstructured optical fibres. Measurement Science and Technology, 2001, 12, 854-858.	2.6	351
10	Holey optical fibers: an efficient modal model. Journal of Lightwave Technology, 1999, 17, 1093-1102.	4.6	343
11	Self-similarity in ultrafast nonlinear optics. Nature Physics, 2007, 3, 597-603.	16.7	336
12	A search for the electric dipole moment of the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 234, 191-196.	4.1	311
13	Optical fiber nanowires and microwires: fabrication and applications. Advances in Optics and Photonics, 2009, 1, 107.	25.5	311
14	Filling the Light Pipe. Science, 2010, 330, 327-328.	12.6	303
15	Nonlinearity in holey optical fibers: measurement and future opportunities. Optics Letters, 1999, 24, 1395.	3.3	295
16	Towards high-capacity fibre-optic communications at the speed of light in vacuum. Nature Photonics, 2013, 7, 279-284.	31.4	289
17	Thulium-doped fiber amplifier for optical communications at 2 Âµm. Optics Express, 2013, 21, 9289.	3.4	266
18	Bismuth glass holey fibers with high nonlinearity. Optics Express, 2004, 12, 5082.	3.4	234

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19	Inverse design and fabrication tolerances of ultra-flattened dispersion holey fibers. Optics Express, 2005, 13, 3728.	3.4	227
20	Passively Q-switched 01-mJ fiber laser system at 153 ?m. Optics Letters, 1999, 24, 388.	3.3	225
21	Energy quantisation in figure eight fibre laser. Electronics Letters, 1992, 28, 67-68.	1.0	223
22	Enhancing optical communications with brand new fibers. , 2012, 50, s31-s42.		210
23	Soliton pulse compression in dispersion-decreasing fiber. Optics Letters, 1993, 18, 476.	3.3	204
24	Interrogation of fiber grating sensor arrays with a wavelength-swept fiber laser. Optics Letters, 1998, 23, 843.	3.3	204
25	Architecture of NarGH Reveals a Structural Classification of Mo-bisMGD Enzymes. Structure, 2004, 12, 95-104.	3.3	199
26	Chalcogenide holey fibres. Electronics Letters, 2000, 36, 1998.	1.0	198
27	Mid-IR Supercontinuum Generation From Nonsilica Microstructured Optical Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 738-749.	2.9	181
28	Modeling large air fraction holey optical fibers. Journal of Lightwave Technology, 2000, 18, 50-56.	4.6	178
29	First demonstration and detailed characterization of a multimode amplifier for space division multiplexed transmission systems. Optics Express, 2011, 19, B952.	3.4	174
30	High-energy, high-power ytterbium-doped Q-switched fiber laser. Optics Letters, 2000, 25, 37.	3.3	172
31	320 fs soliton generation with passively mode-locked erbium fibre laser. Electronics Letters, 1991, 27, 730.	1.0	171
32	Hollow-core photonic bandgap fibers: technology and applications. Nanophotonics, 2013, 2, 315-340.	6.0	170
33	Ultra-flat SPM-broadened spectra in a highly nonlinear fiber using parabolic pulses formed in a fiber Bragg grating. Optics Express, 2006, 14, 7617.	3.4	167
34	Selfstarting, passively modelocked erbium fibre ring laser based on the amplifying Sagnac switch. Electronics Letters, 1991, 27, 542.	1.0	165
35	Cladding pumped Ytterbium-doped fiber laser with holey inner and outer cladding. Optics Express, 2001, 9, 714.	3.4	165
36	Highly nonlinear and anomalously dispersive lead silicate glass holey fibers. Optics Express, 2003, 11, 3568.	3.4	165

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37	Diode-pumped wideband thulium-doped fiber amplifiers for optical communications in the 1800 â€“ 2050 nm window. Optics Express, 2013, 21, 26450.	3.4	165
38	Passive harmonic modelocking of a fibre soliton ring laser. Electronics Letters, 1993, 29, 1860.	1.0	163
39	A comparative study of the performance of seven- and 63-chip optical code-division multiple-access encoders and decoders based on superstructured fiber Bragg gratings. Journal of Lightwave Technology, 2001, 19, 1352-1365.	4.6	159
40	158-ÂµJ pulses from a single-transverse-mode, large-mode-area erbium-doped fiber amplifier. Optics Letters, 1997, 22, 378.	3.3	157
41	737 Tb/s (96 x 3 x 256-Gb/s) mode-division-multiplexed DP-16QAM transmission with inline MM-EDFA. Optics Express, 2012, 20, B428.	3.4	156
42	Toward practical holey fiber technology:?fabrication, splicing, modeling, and characterization. Optics Letters, 1999, 24, 1203.	3.3	153
43	Nonlinear self-switching and multiple gap-soliton formation in a fiber Bragg grating. Optics Letters, 1998, 23, 328.	3.3	152
44	Extruded singlemode non-silica glass holey optical fibres. Electronics Letters, 2002, 38, 546.	1.0	149
45	High-efficiency grating-couplers: demonstration of a new design strategy. Scientific Reports, 2017, 7, 16670.	3.3	146
46	Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. Nature Photonics, 2011, 5, 748-752.	31.4	145
47	Sequence analysis of subunits of the membrane-bound nitrate reductase from a denitrifying bacterium: the integral membrane subunit provides a prototype for the dihaem electron-carrying arm of a redox loop. Molecular Microbiology, 1995, 15, 319-331.	2.5	144
48	Propagation of Cold Atoms along a Miniature Magnetic Guide. Physical Review Letters, 2000, 84, 1371-1373.	7.8	144
49	Optical manipulation of microspheres along a subwavelength optical wire. Optics Letters, 2007, 32, 3041.	3.3	144
50	Developing holey fibres for evanescent field devices. Electronics Letters, 1999, 35, 1188.	1.0	142
51	Rectangular pulse generation based on pulse reshaping using a superstructured fiber Bragg grating. Journal of Lightwave Technology, 2001, 19, 746-752.	4.6	142
52	Single-mode tellurite glass holey fiber with extremely large mode area for infrared nonlinear applications. Optics Express, 2008, 16, 13651.	3.4	140
53	Supercontinuum generation at 1.06 Î¼m in holey fibers with dispersion flattened profiles. Optics Express, 2006, 14, 4445.	3.4	137
54	2R-regenerative all-optical switch based on a highly nonlinear holey fiber. Optics Letters, 2001, 26, 1233.	3.3	135

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55	Nonlinear femtosecond pulse compression at high average power levels by use of a large-mode-area holey fiber. Optics Letters, 2003, 28, 1951.	3.3	131
56	Small-core silica holey fibers: nonlinearity and confinement loss trade-offs. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1427.	2.1	128
57	High-energy single-transverse-mode Q-switched fiber laser based on a multimode large-mode-area erbium-doped fiber. Optics Letters, 1998, 23, 1683.	3.3	124
58	Large Mode Area Fibers for High Power Applications. Optical Fiber Technology, 1999, 5, 185-196.	2.7	124
59	Characteristics of Q-switched cladding-pumped ytterbium-doped fiber lasers with different high-energy fiber designs. IEEE Journal of Quantum Electronics, 2001, 37, 199-206.	1.9	121
60	Holey fibers with random cladding distributions. Optics Letters, 2000, 25, 206.	3.3	120
61	High-nonlinearity dispersion-shifted lead-silicate holey fibers for efficient 1-/spl mu/m pumped supercontinuum generation. Journal of Lightwave Technology, 2006, 24, 183-190.	4.6	120
62	Micro-channels machined in microstructured optical fibers by femtosecond laser. Optics Express, 2007, 15, 8731.	3.4	118
63	High power pulsed fiber MOPA system incorporating electro-optic modulator based adaptive pulse shaping. Optics Express, 2009, 17, 20927.	3.4	117
64	Characterization of a self-starting, passively mode-locked fiber ring laser that exploits nonlinear polarization evolution. Optics Letters, 1993, 18, 358.	3.3	115
65	Catalytic Protein Film Voltammetry from a Respiratory Nitrate Reductase Provides Evidence for Complex Electrochemical Modulation of Enzyme Activityâ€. Biochemistry, 2001, 40, 11294-11307.	2.5	115
66	Compound-glass optical nanowires. Electronics Letters, 2005, 41, 400.	1.0	114
67	Picosecond fiber MOPA pumped supercontinuum source with 39 W output power. Optics Express, 2010, 18, 5426.	3.4	113
68	Noise suppression of incoherent light using a gain-saturated SOA: implications for spectrum-sliced WDM systems. Journal of Lightwave Technology, 2005, 23, 2399-2409.	4.6	112
69	Demonstration of amplified data transmission at 2 Âµm in a low-loss wide bandwidth hollow core photonic bandgap fiber. Optics Express, 2013, 21, 28559.	3.4	112
70	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
71	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.	3.3	111
72	Four-wave mixing based 10-Gb/s tunable wavelength conversion using a holey fiber with a high SBS threshold. IEEE Photonics Technology Letters, 2003, 15, 440-442.	2.5	110

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73	High average power, high repetition rate, picosecond pulsed fiber master oscillator power amplifier source seeded by a gain-switched laser diode at 1060 nm. IEEE Photonics Technology Letters, 2006, 18, 1013-1015.	2.5	109
74	Look on the positive side! The orientation, identification and bioenergetics of Ã¢Â€Â˜ArchaealÃ¢Â€Â™ membrane-bound nitrate reductases. FEMS Microbiology Letters, 2007, 276, 129-139.	1.8	107
75	Demonstration of Berry's Phase Using Stored Ultracold Neutrons. Physical Review Letters, 1988, 61, 2030-2033.	7.8	105
76	Optical microfiber coupler for broadband single-mode operation. Optics Express, 2009, 17, 5273.	3.4	105
77	Nonlinear propagation effects in an AlGaAs Bragg grating filter. Optics Letters, 1999, 24, 685.	3.3	104
78	Suspended-core holey fiber for evanescent-field sensing. Optical Engineering, 2007, 46, 010503.	1.0	104
79	Generation of a 40-GHz pulse stream by pulse multiplication with a sampled fiber Bragg grating. Optics Letters, 2000, 25, 521.	3.3	103
80	Cladding pumped few-mode EDFA for mode division multiplexed transmission. Optics Express, 2014, 22, 29008.	3.4	103
81	A Low-Redox Potential Heme in the Dinuclear Center of Bacterial Nitric Oxide Reductase: Implications for the Evolution of Energy-Conserving Hemeâ˜Copper Oxidases. Biochemistry, 1999, 38, 13780-13786.	2.5	102
82	Greater than 20%-efficient frequency doubling of 1532-nm nanosecond pulses in quasi-phase-matched germanosilicate optical fibers. Optics Letters, 1999, 24, 208.	3.3	102
83	Parabolic pulse generation through passive nonlinear pulse reshaping in a normally dispersive two segment fiber device. Optics Express, 2007, 15, 852.	3.4	102
84	Parabolic pulse evolution in normally dispersive fiber amplifiers preceding the similariton formation regime. Optics Express, 2006, 14, 3161.	3.4	100
85	Models for Molybdenum Coordination during the Catalytic Cycle of Periplasmic Nitrate Reductase from Paracoccus denitrificans Derived from EPR and EXAFS Spectroscopy. Biochemistry, 1999, 38, 9000-9012.	2.5	99
86	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
87	Fiber LPG Mode Converters and Mode Selection Technique for Multimode SDM. IEEE Photonics Technology Letters, 2012, 24, 1922-1925.	2.5	95
88	Understanding bending losses in holey optical fibers. Optics Communications, 2003, 227, 317-335.	2.1	94
89	Design scaling rules for 2R-optical self-phase modulation-based regenerators. Optics Express, 2007, 15, 5100.	3.4	94
90	High-power, high repetition rate picosecond and femtosecond sources based on Yb-doped fiber amplification of VECSELs. Optics Express, 2006, 14, 9611.	3.4	93

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91	Robustly single mode hollow core photonic bandgap fiber. Optics Express, 2008, 16, 4337.	3.4	92
92	Broadband single-mode operation of standard optical fibers by using a sub-wavelength optical wire filter. Optics Express, 2008, 16, 14661.	3.4	92
93	Adaptive pulse shape control in a diode-seeded nanosecond fiber MOPA system. Optics Express, 2006, 14, 10996.	3.4	91
94	High-resolution microwave frequency transfer over an 86-km-long optical fiber network using a mode-locked laser. Optics Letters, 2011, 36, 511.	3.3	91
95	Accurate modal gain control in a multimode erbium doped fiber amplifier incorporating ring doping and a simple LP_01 pump configuration. Optics Express, 2012, 20, 20835.	3.4	91
96	The mathematical modelling of capillary drawing for holey fibre manufacture. Journal of Engineering Mathematics, 2002, 43, 201-227.	1.2	90
97	Optical Parabolic Pulse Generation and Applications. IEEE Journal of Quantum Electronics, 2009, 45, 1482-1489.	1.9	89
98	Supercontinuum generation in non-silica fibers. Optical Fiber Technology, 2012, 18, 327-344.	2.7	89
99	Pulse repetition rates in passive, selfstarting, femtosecond soliton fibre laser. Electronics Letters, 1991, 27, 1451.	1.0	88
100	Raman effects in a highly nonlinear holey fiber:â€ƒamplification and modulation. Optics Letters, 2002, 27, 424.	3.3	88
101	Optimizing the usable bandwidth and loss through core design in realistic hollow-core photonic bandgap fibers. Optics Express, 2006, 14, 7974.	3.4	88
102	Intensity measurement bend sensors based on periodically tapered soft glass fibers. Optics Letters, 2011, 36, 558.	3.3	87
103	Demonstration of a four-channel WDM/OCDMA system using 255-chip 320-Gchip/s quarternary phase coding gratings. IEEE Photonics Technology Letters, 2002, 14, 227-229.	2.5	86
104	Stretched pulse Yb^3+:silica fiber laser. Optics Letters, 1997, 22, 316.	3.3	84
105	Signal peptideâ€“chaperone interactions on the twin-arginine protein transport pathway. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8460-8465.	7.1	84
106	Mid-infrared ZBLAN fiber supercontinuum source using picosecond diode-pumping at 2 Âµm. Optics Express, 2013, 21, 24281.	3.4	83
107	Phase sensitive amplification based on quadratic cascading in a periodically poled lithium niobate waveguide. Optics Express, 2009, 17, 20393.	3.4	80
108	All-fiber, ultra-wideband tunable laser at 2ÂÎ¼m. Optics Letters, 2013, 38, 4739.	3.3	80

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109	A holey fiber-based nonlinear thresholding device for optical CDMA receiver performance enhancement. IEEE Photonics Technology Letters, 2002, 14, 876-878.	2.5	78
110	Broadband high birefringence and polarizing hollow core antiresonant fibers. Optics Express, 2016, 24, 22943.	3.4	78
111	Open conformation of a flavocytochrome c3 fumarate reductase. Nature Structural Biology, 1999, 6, 1104-1107.	9.7	77
112	All-optical and gate based on coupled gap-soliton formation in a fiber Bragg grating. Optics Letters, 1998, 23, 259.	3.3	76
113	Ultrashort-pulse Yb^3+-fiber-based laser and amplifier system producing >25-W average power. Optics Letters, 2004, 29, 2073.	3.3	76
114	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. Scientific Reports, 2015, 5, 15447.	3.3	75
115	High Capacity Mode-Division Multiplexed Optical Transmission in a Novel 37-cell Hollow-Core Photonic Bandgap Fiber. Journal of Lightwave Technology, 2014, 32, 854-863.	4.6	74
116	Reconfigurable Modal Gain Control of a Few-Mode EDFA Supporting Six Spatial Modes. IEEE Photonics Technology Letters, 2014, 26, 1100-1103.	2.5	74
117	Comparative study of large-mode holey and conventional fibers. Optics Letters, 2001, 26, 1045.	3.3	73
118	Soliton transmission and supercontinuum generation in holey fiber, using a diode pumped Ytterbium fiber source. Optics Express, 2002, 10, 382.	3.4	73
119	Fibre-optic metadevice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182.	12.8	73
120	The effect of core asymmetries on the polarization properties of hollow core photonic bandgap fibers. Optics Express, 2005, 13, 9115.	3.4	71
121	Dissemination of an optical frequency comb over fiber with 3 Ã— 10^â^'18 fractional accuracy. Optics Express, 2012, 20, 1775.	3.4	69
122	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
123	Hollow Core NANF with 0.28 dB/km Attenuation in the C and L Bands. , 2020, , .		69
124	Picosecond soliton pulse compressor based on dispersion decreasing fibre. Electronics Letters, 1992, 28, 1842.	1.0	68
125	Practical low-noise stretched-pulse Yb^3+-doped fiber laser. Optics Letters, 2002, 27, 291.	3.3	68
126	Extruded singlemode, high-nonlinearity, tellurite glass holey fibre. Electronics Letters, 2005, 41, 835.	1.0	68

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127	Pulse retiming based on XPM using parabolic pulses formed in a fiber Bragg grating. IEEE Photonics Technology Letters, 2006, 18, 829-831.	2.5	68
128	A 103 W erbiumâ€“ytterbium co-doped large-core fiber laser. Optics Communications, 2003, 227, 159-163.	2.1	67
129	Control of periplasmic nitrate reductase gene expression (napEDABC) from Paracoccus pantotrophus in response to oxygen and carbon substrates. Microbiology (United Kingdom), 2000, 146, 2977-2985.	1.8	67
130	Temperature and wavelength tuning of second-, third-, and fourth-harmonic generation in a two-dimensional hexagonally poled nonlinear crystal. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2263.	2.1	66
131	Detailed characterization of aâ€¨fiber-optic parametric amplifier in phase-sensitive and phase-insensitive operation. Optics Express, 2010, 18, 4130.	3.4	66
132	Inter-modal four-wave mixing study in a two-mode fiber. Optics Express, 2016, 24, 30338.	3.4	66
133	1-Pb/s (32 SDM/46 WDM/768 Gb/s) C-band Dense SDM Transmission over 205.6-km of Single-mode Heterogeneous Multi-core Fiber using 96-Gbaud PDM-16QAM Channels. , 2017, , .		66
134	114 Gbit/s soliton train generation through Raman selfâ€scattering of a dual frequency beat signal in dispersion decreasing optical fiber. Applied Physics Letters, 1993, 63, 293-295.	3.3	65
135	Low-loss and low-bend-sensitivity mid-infrared guidance in a hollow-coreâ€“photonic-bandgap fiber. Optics Letters, 2014, 39, 295.	3.3	65
136	High-Capacity Directly Modulated Optical Transmitter for 2-Î¼m Spectral Region. Journal of Lightwave Technology, 2015, 33, 1373-1379.	4.6	65
137	0.174 dB/km Hollow Core Double Nested Antiresonant Nodeless Fiber (DNANF). , 2022, , .		65
138	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
139	Characterization of a flavocytochrome that is induced during the anaerobic respiration of Fe3+ by Shewanella frigidimarina NCIMB400. Biochemical Journal, 1999, 342, 439-448.	3.7	63
140	Generation of localized pulses from incoherent wave in optical fiber lines made of concatenated Mamyshev regenerators. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1537.	2.1	63
141	Experimental demonstration of 100 GHz dark soliton generation and propagation using a dispersion decreasing fibre. Electronics Letters, 1994, 30, 1326-1327.	1.0	62
142	Optical Pulse Compression in Fiber Bragg Gratings. Physical Review Letters, 1997, 79, 4566-4569.	7.8	62
143	Polarisation maintaining 100W Yb-fiber â€MOPA producing ÂµJ pulses tunable in â€duration from 1 to 21 ps. Optics Express, 2010, 18, 14385.	3.4	62
144	Characterization of the paramagnetic iron-containing redox centres ofThiosphaera pantotrophaperiplasmic nitrate reductase. FEBS Letters, 1994, 345, 76-80.	2.8	61

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145	Tunable, femtosecond pulse source operating in the range 106â€“133 m based on an Yb^3+-doped holey fiber amplifier. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1286.	2.1	61
146	Analysis of light scattering from surface roughness in hollow-core photonic bandgap fibers. Optics Express, 2012, 20, 20980.	3.4	61
147	100ÂkW peak power picosecond thulium-doped fiber amplifier system seeded by a gain-switched diode laser at 2ÂÎ¼m. Optics Letters, 2013, 38, 1615.	3.3	60
148	Investigation of Brillouin effects in small-core holey optical fiber:â€ƒlasing and scattering. Optics Letters, 2002, 27, 927.	3.3	59
149	A tunable WDM wavelength converter based on cross-phase modulation effects in normal dispersion holey fiber. IEEE Photonics Technology Letters, 2003, 15, 437-439.	2.5	59
150	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
151	Highly efficient second-harmonic and sum-frequency generation of nanosecond pulses in a cascaded erbium-doped fiber:periodically poled lithium niobate source. Optics Letters, 1998, 23, 162.	3.3	58
152	Design of 7 and 19 cells core air-guiding photonic crystal fibers for low-loss, wide bandwidth and dispersion controlled operation. Optics Express, 2007, 15, 17577.	3.4	58
153	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
154	Exploiting the short wavelength gain of silica-based thulium-doped fiber amplifiers. Optics Letters, 2016, 41, 2197.	3.3	58
155	The characteristics of NDM-producing Klebsiella pneumoniae from Canada. Diagnostic Microbiology and Infectious Disease, 2011, 71, 106-109.	1.8	57
156	Three mode Er^3+ ring-doped fiber amplifier for mode-division multiplexed transmission. Optics Express, 2013, 21, 10383.	3.4	56
157	Mo(V) Electron Paramagnetic Resonance Signals from the Periplasmic Nitrate Reductase of Thiosphaera Pantotropha. FEBS Journal, 1994, 226, 789-798.	0.2	55
158	Dual mode fused optical fiber couplers suitable for mode division multiplexed transmission. Optics Express, 2013, 21, 24326.	3.4	55
159	Frequency comb generation in a silicon ring resonator modulator. Optics Express, 2018, 26, 790.	3.4	55
160	32-core erbium/ytterbium-doped multicore fiber amplifier for next generation space-division multiplexed transmission system. Optics Express, 2017, 25, 32887.	3.4	54
161	Highly birefringent silica microfiber. Optics Letters, 2010, 35, 378.	3.3	53
162	Amplification of 12 OAM Modes in an air-core erbium doped fiber. Optics Express, 2015, 23, 28341.	3.4	53

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163	Optical Orbital Angular Momentum Amplifier Based on an Air-Hole Erbium-Doped Fiber. Journal of Lightwave Technology, 2017, 35, 430-436.	4.6	53
164	Interband Short Reach Data Transmission in Ultrawide Bandwidth Hollow Core Fiber. Journal of Lightwave Technology, 2020, 38, 159-165.	4.6	53
165	The role of confinement loss in highly nonlinear silica holey fibers. IEEE Photonics Technology Letters, 2003, 15, 1246-1248.	2.5	52
166	Pulse compression at 106 Î¼m in dispersion-decreasing holey fibers. Optics Letters, 2006, 31, 3504.	3.3	52
167	All-solid highly nonlinear singlemode fibers with a tailored dispersion profile. Optics Express, 2011, 19, 66.	3.4	52
168	A photonic switch based on a gigantic, reversible optical nonlinearity of liquefying gallium. Applied Physics Letters, 1998, 73, 1787-1789.	3.3	51
169	Dispersion controlled highly nonlinear fibers for all-optical processing at telecoms wavelengths. Optical Fiber Technology, 2010, 16, 378-391.	2.7	51
170	Effect of carbon substrate and aeration on nitrate reduction and expression of the periplasmic and membrane-bound nitrate reductases in carbon-limited continuous cultures of Paracoccus denitrificans Pd1222. Microbiology (United Kingdom), 1997, 143, 3767-3774.	1.8	51
171	Fabrication of tubular anti-resonant hollow core fibers: modelling, draw dynamics and process optimization. Optics Express, 2019, 27, 20567.	3.4	51
172	Dissimilatory iron(III) reduction by Rhodobacter capsulatus. Microbiology (United Kingdom), 1996, 142, 765-774.	1.8	50
173	Holey optical fibres: Fundamental properties and device applications. Comptes Rendus Physique, 2003, 4, 175-186.	0.9	50
174	Transmission media for an SDM-based optical communication system. , 2015, 53, 44-51.		50
175	Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372.	4.6	50
176	New optical fibres for high-capacity optical communications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20140441.	3.4	50
177	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
178	Passive Q-switching of fiber lasers using a broadband liquefying gallium mirror. Applied Physics Letters, 1999, 74, 3619-3621.	3.3	49
179	20 Ã— 960-Gb/s Space-division-multiplexed 32QAM transmission over 60 km few-mode fiber. Optics Express, 2014, 22, 749.	3.4	49
180	Characterization of Mode Coupling in Few-Mode FBG With Selective Mode Excitation. IEEE Photonics Technology Letters, 2015, 27, 1713-1716.	2.5	49

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181	Broadband telecom to mid-infrared supercontinuum generation in a dispersion-engineered silicon germanium waveguide. Optics Letters, 2015, 40, 4118.	3.3	49
182	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
183	How to make the propagation time through an optical fiber fully insensitive to temperature variations. Optica, 2017, 4, 659.	9.3	49
184	Photonic lantern broadband orbital angular momentum mode multiplexer. Optics Express, 2018, 26, 30042.	3.4	49
185	Kilowatt-average-power single-mode laser light transmission over kilometre-scale hollow-core fibre. Nature Photonics, 2022, 16, 448-453.	31.4	49
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