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	Space-division multiplexing in optical fibres. Nature Photonics, 2013, 7, 354-362.	31.4	2,606
2	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595
3	Bacterial respiration: a flexible process for a changing environment 1999 Fleming Lecture (Delivered) Tj ETQq1 1 0.784314 rgBT /Over	1.8	508
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	Mitigating release of the potent greenhouse gas N2O from the nitrogen cycle â€“ could enzymic regulation hold the key?. Trends in Biotechnology, 2009, 27, 388-397.	9.3	438
7	Selfstarting passively mode-locked fibre ring soliton laser exploiting nonlinear polarisation rotation. Electronics Letters, 1992, 28, 1391.	1.0	432
8	Characterization of an electron conduit between bacteria and the extracellular environment. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22169-22174.	7.1	410
9	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
10	Sensing with microstructured optical fibres. Measurement Science and Technology, 2001, 12, 854-858.	2.6	351
11	Holey optical fibers: an efficient modal model. Journal of Lightwave Technology, 1999, 17, 1093-1102.	4.6	343
12	Self-similarity in ultrafast nonlinear optics. Nature Physics, 2007, 3, 597-603.	16.7	336
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	Structure of a bacterial cell surface decaheme electron conduit. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9384-9389.	7.1	301
16	Nonlinearity in holey optical fibers: measurement and future opportunities. Optics Letters, 1999, 24, 1395.	3.3	295
17	Towards high-capacity fibre-optic communications at the speed of light in vacuum. Nature Photonics, 2013, 7, 279-284.	31.4	289
18	The roles of outer membrane cytochromes of Shewanella and Geobacter in extracellular electron transfer. Environmental Microbiology Reports, 2009, 1, 220-227.	2.4	285

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19	Thulium-doped fiber amplifier for optical communications at 2 Âµm. Optics Express, 2013, 21, 9289.	3.4	266
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	The â€˜porinâ€“cytochromeâ€™ model for microbeâ€toâ€mineral electron transfer. Molecular Microbiology, 2012, 85, 201-212.	2.5	222
23	Periplasmic and membrane-bound respiratory nitrate reductases inThiosphaera pantotropha. FEBS Letters, 1990, 265, 85-87.	2.8	219
24	Enhancing optical communications with brand new fibers. , 2012, 50, s31-s42.		210
25	Characterization of the Shewanella oneidensis MR-1 Decaheme Cytochrome MtrA. Journal of Biological Chemistry, 2003, 278, 27758-27765.	3.4	209
26	Characterization of Shewanella oneidensis MtrC: a cell-surface decaheme cytochrome involved in respiratory electron transport to extracellular electron acceptors. Journal of Biological Inorganic Chemistry, 2007, 12, 1083-1094.	2.6	209
27	Soliton pulse compression in dispersion-decreasing fiber. Optics Letters, 1993, 18, 476.	3.3	204
28	Interrogation of fiber grating sensor arrays with a wavelength-swept fiber laser. Optics Letters, 1998, 23, 843.	3.3	204
29	Architecture of NarGH Reveals a Structural Classification of Mo-bisMGD Enzymes. Structure, 2004, 12, 95-104.	3.3	199
30	Chalcogenide holey fibres. Electronics Letters, 2000, 36, 1998.	1.0	198
31	Molecular Underpinnings of Fe(III) Oxide Reduction by Shewanella Oneidensis MR-1. Frontiers in Microbiology, 2012, 3, 50.	3.5	186
32	Mid-IR Supercontinuum Generation From Nonsilica Microstructured Optical Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 738-749.	2.9	181
33	Rapid electron exchange between surface-exposed bacterial cytochromes and Fe(III) minerals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6346-6351.	7.1	179
34	Modeling large air fraction holey optical fibers. Journal of Lightwave Technology, 2000, 18, 50-56.	4.6	178
35	A transâ€outer membrane porinâ€cytochrome protein complex for extracellular electron transfer by <scp>G</scp>eobacter sulfurreducensâ€…<scp>PCA</scp>. Environmental Microbiology Reports, 2014, 6, 776-785.	2.4	178
36	First demonstration and detailed characterization of a multimode amplifier for space division multiplexed transmission systems. Optics Express, 2011, 19, B952.	3.4	174

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37	High-energy, high-power ytterbium-doped Q-switched fiber laser. Optics Letters, 2000, 25, 37.	3.3	172
38	320 fs soliton generation with passively mode-locked erbium fibre laser. Electronics Letters, 1991, 27, 730.	1.0	171
39	Respiratory Detoxification of Nitric Oxide by the Cytochromec Nitrite Reductase of Escherichia coli. Journal of Biological Chemistry, 2002, 277, 23664-23669.	3.4	171
40	Bacterial Adaptation of Respiration from Oxic to Microoxic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852.	5.4	170
41	Hollow-core photonic bandgap fibers: technology and applications. Nanophotonics, 2013, 2, 315-340.	6.0	170
42	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
43	Selfstarting, passively modelocked erbium fibre ring laser based on the amplifying Sagnac switch. Electronics Letters, 1991, 27, 542.	1.0	165
44	Cladding pumped Ytterbium-doped fiber laser with holey inner and outer cladding. Optics Express, 2001, 9, 714.	3.4	165
45	Highly nonlinear and anomalously dispersive lead silicate glass holey fibers. Optics Express, 2003, 11, 3568.	3.4	165
46	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
47	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
48	158-ÂµJ pulses from a single-transverse-mode, large-mode-area erbium-doped fiber amplifier. Optics Letters, 1997, 22, 378.	3.3	157
49	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
50	Toward practical holey fiber technology:?fabrication, splicing, modeling, and characterization. Optics Letters, 1999, 24, 1203.	3.3	153
51	Nonlinear self-switching and multiple gap-soliton formation in a fiber Bragg grating. Optics Letters, 1998, 23, 328.	3.3	152
52	Structure and Spectroscopy of the Periplasmic Cytochrome c Nitrite Reductase from Escherichia coli. Biochemistry, 2002, 41, 2921-2931.	2.5	151
53	Extruded singlemode non-silica glass holey optical fibres. Electronics Letters, 2002, 38, 546.	1.0	149
54	Characterization of Protein-Protein Interactions Involved in Iron Reduction by Shewanella oneidensis MR-1. Applied and Environmental Microbiology, 2007, 73, 5797-5808.	3.1	145

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55	Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. Nature Photonics, 2011, 5, 748-752.	31.4	145
56	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
57	Propagation of Cold Atoms along a Miniature Magnetic Guide. Physical Review Letters, 2000, 84, 1371-1373.	7.8	144
58	Optical manipulation of microspheres along a subwavelength optical wire. Optics Letters, 2007, 32, 3041.	3.3	144
59	Developing holey fibres for evanescent field devices. Electronics Letters, 1999, 35, 1188.	1.0	142
60	Rectangular pulse generation based on pulse reshaping using a superstructured fiber Bragg grating. Journal of Lightwave Technology, 2001, 19, 746-752.	4.6	142
61	Single-mode tellurite glass holey fiber with extremely large mode area for infrared nonlinear applications. Optics Express, 2008, 16, 13651.	3.4	140
62	Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer.. Scientific Reports, 2015, 5, 11677.	3.3	138
63	Supercontinuum generation at 1.06 Î¼m in holey fibers with dispersion flattened profiles. Optics Express, 2006, 14, 4445.	3.4	137
64	2R-regenerative all-optical switch based on a highly nonlinear holey fiber. Optics Letters, 2001, 26, 1233.	3.3	135
65	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
66	Spectroscopic Characterization of a Novel Multihemec-Type Cytochrome Widely Implicated in Bacterial Electron Transport. Journal of Biological Chemistry, 1998, 273, 28785-28790.	3.4	129
67	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
68	Nitrate reduction in the periplasm of gram-negative bacteria. Advances in Microbial Physiology, 2001, 45, 51-112.	2.4	126
69	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
70	Large Mode Area Fibers for High Power Applications. Optical Fiber Technology, 1999, 5, 185-196.	2.7	124
71	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
72	Holey fibers with random cladding distributions. Optics Letters, 2000, 25, 206.	3.3	120

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73	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
74	Micro-channels machined in microstructured optical fibers by femtosecond laser. Optics Express, 2007, 15, 8731.	3.4	118
75	High power pulsed fiber MOPA system incorporating electro-optic modulator based adaptive pulse shaping. Optics Express, 2009, 17, 20927.	3.4	117
76	The purification of a cd1-type nitrite reductase from, and the absence of a copper-type nitrite reductase from, the aerobic denitrifier Thiosphaera pantotropha; the role of pseudoazurin as an electron donor. FEBS Journal, 1993, 212, 377-385.	0.2	116
77	Characterization of a self-starting, passively mode-locked fiber ring laser that exploits nonlinear polarization evolution. Optics Letters, 1993, 18, 358.	3.3	115
78	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
79	Compound-glass optical nanowires. Electronics Letters, 2005, 41, 400.	1.0	114
80	Picosecond fiber MOPA pumped supercontinuum source with 39 W output power. Optics Express, 2010, 18, 5426.	3.4	113
81	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
82	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
83	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
84	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.	3.3	111
85	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
86	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
87	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
88	Demonstration of Berry's Phase Using Stored Ultracold Neutrons. Physical Review Letters, 1988, 61, 2030-2033.	7.8	105
89	Purification and Magneto-optical Spectroscopic Characterization of Cytoplasmic Membrane and Outer Membrane Multiheme c-Type Cytochromes from Shewanella frigidimarina NCIMB400. Journal of Biological Chemistry, 2000, 275, 8515-8522.	3.4	105
90	Optical microfiber coupler for broadband single-mode operation. Optics Express, 2009, 17, 5273.	3.4	105

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91	Nonlinear propagation effects in an AlGaAs Bragg grating filter. Optics Letters, 1999, 24, 685.	3.3	104
92	Generation of a 40-GHz pulse stream by pulse multiplication with a sampled fiber Bragg grating. Optics Letters, 2000, 25, 521.	3.3	103
93	Cladding pumped few-mode EDFA for mode division multiplexed transmission. Optics Express, 2014, 22, 29008.	3.4	103
94	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
95	Parabolic pulse generation through passive nonlinear pulse reshaping in a normally dispersive two segment fiber device. Optics Express, 2007, 15, 852.	3.4	102
96	Parabolic pulse evolution in normally dispersive fiber amplifiers preceding the similariton formation regime. Optics Express, 2006, 14, 3161.	3.4	100
97	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
98	The Nitric Oxide Reductase Activity of Cytochrome c Nitrite Reductase from Escherichia coli. Journal of Biological Chemistry, 2008, 283, 9587-9594.	3.4	97
99	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
100	Fiber LPG Mode Converters and Mode Selection Technique for Multimode SDM. IEEE Photonics Technology Letters, 2012, 24, 1922-1925.	2.5	95
101	Understanding bending losses in holey optical fibers. Optics Communications, 2003, 227, 317-335.	2.1	94
102	Spectropotentiometric and Structural Analysis of the Periplasmic Nitrate Reductase from Escherichia coli. Journal of Biological Chemistry, 2007, 282, 6425-6437.	3.4	94
103	Design scaling rules for 2R-optical self-phase modulation-based regenerators. Optics Express, 2007, 15, 5100.	3.4	94
104	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
105	Robustly single mode hollow core photonic bandgap fiber. Optics Express, 2008, 16, 4337.	3.4	92
106	Broadband single-mode operation of standard optical fibers by using a sub-wavelength optical wire filter. Optics Express, 2008, 16, 14661.	3.4	92
107	Constraining the conditions conducive to dissimilatory nitrate reduction to ammonium in temperate arable soils. Soil Biology and Biochemistry, 2011, 43, 1607-1611.	8.8	92
108	Adaptive pulse shape control in a diode-seeded nanosecond fiber MOPA system. Optics Express, 2006, 14, 10996.	3.4	91

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109	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
110	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
111	The mathematical modelling of capillary drawing for holey fibre manufacture. Journal of Engineering Mathematics, 2002, 43, 201-227.	1.2	90
112	Optical Parabolic Pulse Generation and Applications. IEEE Journal of Quantum Electronics, 2009, 45, 1482-1489.	1.9	89
113	Supercontinuum generation in non-silica fibers. Optical Fiber Technology, 2012, 18, 327-344.	2.7	89
114	Pulse repetition rates in passive, selfstarting, femtosecond soliton fibre laser. Electronics Letters, 1991, 27, 1451.	1.0	88
115	Raman effects in a highly nonlinear holey fiber:â€ƒamplification and modulation. Optics Letters, 2002, 27, 424.	3.3	88
116	Optimizing the usable bandwidth and loss through core design in realistic hollow-core photonic bandgap fibers. Optics Express, 2006, 14, 7974.	3.4	88
117	Resolution of Distinct Membrane-Bound Enzymes from Enterobacter cloacae SLD1a-1 That Are Responsible for Selective Reduction of Nitrate and Selenate Oxyanions. Applied and Environmental Microbiology, 2006, 72, 5173-5180.	3.1	88
118	Protein Film Voltammetry Reveals Distinctive Fingerprints of Nitrite and Hydroxylamine Reduction by a Cytochrome c Nitrite Reductase. Journal of Biological Chemistry, 2002, 277, 23374-23381.	3.4	87
119	Intensity measurement bend sensors based on periodically tapered soft glass fibers. Optics Letters, 2011, 36, 558.	3.3	87
120	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
121	Stretched pulse Yb^3+:silica fiber laser. Optics Letters, 1997, 22, 316.	3.3	84
122	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
123	Mid-infrared ZBLAN fiber supercontinuum source using picosecond diode-pumping at 2 Âµm. Optics Express, 2013, 21, 24281.	3.4	83
124	NapGH components of the periplasmic nitrate reductase of Escherichia coli K-12: location, topology and physiological roles in quinol oxidation and redox balancing. Biochemical Journal, 2004, 379, 47-55.	3.7	80
125	Phase sensitive amplification based on quadratic cascading in a periodically poled lithium niobate waveguide. Optics Express, 2009, 17, 20393.	3.4	80
126	All-fiber, ultra-wideband tunable laser at 2ÂÎ¼m. Optics Letters, 2013, 38, 4739.	3.3	80

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127	A holey fiber-based nonlinear thresholding device for optical CDMA receiver performance enhancement. IEEE Photonics Technology Letters, 2002, 14, 876-878.	2.5	78
128	Broadband high birefringence and polarizing hollow core antiresonant fibers. Optics Express, 2016, 24, 22943.	3.4	78
129	Purification and characterization of a nitrous oxide reductase from Thiosphaera pantotropha. Implications for the mechanism of aerobic nitrous oxide reduction. FEBS Journal, 1993, 212, 467-476.	0.2	77
130	Open conformation of a flavocytochrome c3 fumarate reductase. Nature Structural Biology, 1999, 6, 1104-1107.	9.7	77
131	All-optical and gate based on coupled gap-soliton formation in a fiber Bragg grating. Optics Letters, 1998, 23, 259.	3.3	76
132	Ultrashort-pulse Yb^3+-fiber-based laser and amplifier system producing >25-W average power. Optics Letters, 2004, 29, 2073.	3.3	76
133	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. Scientific Reports, 2015, 5, 15447.	3.3	75
134	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
135	Reconfigurable Modal Gain Control of a Few-Mode EDFA Supporting Six Spatial Modes. IEEE Photonics Technology Letters, 2014, 26, 1100-1103.	2.5	74
136	Comparative study of large-mode holey and conventional fibers. Optics Letters, 2001, 26, 1045.	3.3	73
137	Soliton transmission and supercontinuum generation in holey fiber, using a diode pumped Ytterbium fiber source. Optics Express, 2002, 10, 382.	3.4	73
138	Tuning a Nitrate Reductase for Function. Journal of Biological Chemistry, 2004, 279, 32212-32218.	3.4	73
139	The Xâ€ray crystal structure of Shewanella oneidensis OmcA reveals new insight at the microbeâ€“mineral interface. FEBS Letters, 2014, 588, 1886-1890.	2.8	73
140	Fibre-optic metadevice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182.	12.8	73
141	The effect of core asymmetries on the polarization properties of hollow core photonic bandgap fibers. Optics Express, 2005, 13, 9115.	3.4	71
142	Structural diversity in twin-arginine signal peptide-binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15641-15646.	7.1	71
143	Dissemination of an optical frequency comb over fiber with 3 Ã— 10^â^'18 fractional accuracy. Optics Express, 2012, 20, 1775.	3.4	69
144	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. Water Research, 2015, 71, 21-31.	11.3	69

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145	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
146	Hollow Core NANF with 0.28 dB/km Attenuation in the C and L Bands. , 2020, , .		69
147	Picosecond soliton pulse compressor based on dispersion decreasing fibre. Electronics Letters, 1992, 28, 1842.	1.0	68
148	Practical low-noise stretched-pulse Yb^3+-doped fiber laser. Optics Letters, 2002, 27, 291.	3.3	68
149	Extruded singlemode, high-nonlinearity, tellurite glass holey fibre. Electronics Letters, 2005, 41, 835.	1.0	68
150	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
151	A 103 W erbiumâ€“ytterbium co-doped large-core fiber laser. Optics Communications, 2003, 227, 159-163.	2.1	67
152	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
153	Detailed characterization of aâ€˜fiber-optic parametric amplifier in phase-sensitive and phase-insensitive operation. Optics Express, 2010, 18, 4130.	3.4	66
154	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
155	Low-loss and low-bend-sensitivity mid-infrared guidance in a hollow-coreâ€“photonic-bandgap fiber. Optics Letters, 2014, 39, 295.	3.3	65
156	High-Capacity Directly Modulated Optical Transmitter for 2-Î¼m Spectral Region. Journal of Lightwave Technology, 2015, 33, 1373-1379.	4.6	65
157	0.174 dB/km Hollow Core Double Nested Antiresonant Nodeless Fiber (DNANF). , 2022, , .		65
158	Nitrous oxide production in soil isolates of nitrateâ€ammonifying bacteria. Environmental Microbiology Reports, 2012, 4, 66-71.	2.4	64
159	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
160	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
161	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
162	Experimental demonstration of 100 GHz dark soliton generation and propagation using a dispersion decreasing fibre. Electronics Letters, 1994, 30, 1326-1327.	1.0	62

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163	Optical Pulse Compression in Fiber Bragg Gratings. Physical Review Letters, 1997, 79, 4566-4569.	7.8	62
164	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
165	Analysis of light scattering from surface roughness in hollow-core photonic bandgap fibers. Optics Express, 2012, 20, 20980.	3.4	61
166	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
167	Investigation of Brillouin effects in small-core holey optical fiber:â€ƒlasing and scattering. Optics Letters, 2002, 27, 927.	3.3	59
168	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
169	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
170	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
171	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
172	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
173	The Crystal Structure of the Extracellular 11-heme Cytochrome UndA Reveals a Conserved 10-heme Motif and Defined Binding Site for Soluble Iron Chelates. Structure, 2012, 20, 1275-1284.	3.3	56
174	Three mode Er^3+ ring-doped fiber amplifier for mode-division multiplexed transmission. Optics Express, 2013, 21, 10383.	3.4	56
175	Mo(V) Electron Paramagnetic Resonance Signals from the Periplasmic Nitrate Reductase of Thiosphaera Pantotropha. FEBS Journal, 1994, 226, 789-798.	0.2	55
176	Dual mode fused optical fiber couplers suitable for mode division multiplexed transmission. Optics Express, 2013, 21, 24326.	3.4	55
177	Frequency comb generation in a silicon ring resonator modulator. Optics Express, 2018, 26, 790.	3.4	55
178	The roles of CymA in support of the respiratory flexibility of Shewanella oneidensis MR-1. Biochemical Society Transactions, 2012, 40, 1217-1221.	3.4	54
179	32-core erbium/ytterbium-doped multicore fiber amplifier for next generation space-division multiplexed transmission system. Optics Express, 2017, 25, 32887.	3.4	54
180	Cytochrome c₂ is essential for electron transfer to nitrous oxide reductase from physiological substrates in Rhodobacter capsulatus and can act as an electron donor to the reductase in vitro. FEBS Journal, 1991, 199, 677-683.	0.2	53

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