

David J Richardson

List of Publications by Year in descending order

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730
papers

35,622
citations

3116

95
h-index

7427

157
g-index

732
all docs

732
docs citations

732
times ranked

17914
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-division multiplexing in optical fibres. <i>Nature Photonics</i> , 2013, 7, 354-362.	15.6	2,606
2	All-optical phase and amplitude regenerator for next-generation telecommunications systems. <i>Nature Photonics</i> , 2010, 4, 690-695.	15.6	595
3	Bacterial respiration: a flexible process for a changing environment 1999 Fleming Lecture (Delivered) Tj ETQq1 1 0.784314 rgBT /Over	0.7	508
4	Hexagonally Poled Lithium Niobate: A Two-Dimensional Nonlinear Photonic Crystal. <i>Physical Review Letters</i> , 2000, 84, 4345-4348.	2.9	468
5	Ultra-low-loss optical fiber nanotapers. <i>Optics Express</i> , 2004, 12, 2258.	1.7	445
6	Mitigating release of the potent greenhouse gas N ₂ O from the nitrogen cycle – could enzymic regulation hold the key?. <i>Trends in Biotechnology</i> , 2009, 27, 388-397.	4.9	438
7	Selfstarting passively mode-locked fibre ring soliton laser exploiting nonlinear polarisation rotation. <i>Electronics Letters</i> , 1992, 28, 1391.	0.5	432
8	Characterization of an electron conduit between bacteria and the extracellular environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22169-22174.	3.3	410
9	Roadmap of optical communications. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 063002.	1.0	402
10	Sensing with microstructured optical fibres. <i>Measurement Science and Technology</i> , 2001, 12, 854-858.	1.4	351
11	Holey optical fibers: an efficient modal model. <i>Journal of Lightwave Technology</i> , 1999, 17, 1093-1102.	2.7	343
12	Self-similarity in ultrafast nonlinear optics. <i>Nature Physics</i> , 2007, 3, 597-603.	6.5	336
13	Optical fiber nanowires and microwires: fabrication and applications. <i>Advances in Optics and Photonics</i> , 2009, 1, 107.	12.1	311
14	Filling the Light Pipe. <i>Science</i> , 2010, 330, 327-328.	6.0	303
15	Structure of a bacterial cell surface decaheme electron conduit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9384-9389.	3.3	301
16	Nonlinearity in holey optical fibers: measurement and future opportunities. <i>Optics Letters</i> , 1999, 24, 1395.	1.7	295
17	Towards high-capacity fibre-optic communications at the speed of light in vacuum. <i>Nature Photonics</i> , 2013, 7, 279-284.	15.6	289
18	The roles of outer membrane cytochromes of <i>Shewanella</i> and <i>Geobacter</i> in extracellular electron transfer. <i>Environmental Microbiology Reports</i> , 2009, 1, 220-227.	1.0	285

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19	Thulium-doped fiber amplifier for optical communications at 2 Åµm. <i>Optics Express</i> , 2013, 21, 9289.	1.7	266
20	Passively Q-switched 01-mJ fiber laser system at 153 ?m. <i>Optics Letters</i> , 1999, 24, 388.	1.7	225
21	Energy quantisation in figure eight fibre laser. <i>Electronics Letters</i> , 1992, 28, 67-68.	0.5	223
22	The â€œporinâ€ cytochromeâ€™™ model for microbeâ€™toâ€™mineral electron transfer. <i>Molecular Microbiology</i> , 2012, 85, 201-212.	1.2	222
23	Periplasmic and membrane-bound respiratory nitrate reductases in <i>Thiosphaera pantotropha</i> . <i>FEBS Letters</i> , 1990, 265, 85-87.	1.3	219
24	Enhancing optical communications with brand new fibers. , 2012, 50, s31-s42.		210
25	Characterization of the <i>Shewanella oneidensis</i> MR-1 Decaheme Cytochrome MtrA. <i>Journal of Biological Chemistry</i> , 2003, 278, 27758-27765.	1.6	209
26	Characterization of <i>Shewanella oneidensis</i> MtrC: a cell-surface decaheme cytochrome involved in respiratory electron transport to extracellular electron acceptors. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 1083-1094.	1.1	209
27	Soliton pulse compression in dispersion-decreasing fiber. <i>Optics Letters</i> , 1993, 18, 476.	1.7	204
28	Interrogation of fiber grating sensor arrays with a wavelength-swept fiber laser. <i>Optics Letters</i> , 1998, 23, 843.	1.7	204
29	Architecture of NarGH Reveals a Structural Classification of Mo-bisMGD Enzymes. <i>Structure</i> , 2004, 12, 95-104.	1.6	199
30	Chalcogenide holey fibres. <i>Electronics Letters</i> , 2000, 36, 1998.	0.5	198
31	Molecular Underpinnings of Fe(III) Oxide Reduction by <i>Shewanella Oneidensis</i> MR-1. <i>Frontiers in Microbiology</i> , 2012, 3, 50.	1.5	186
32	Mid-IR Supercontinuum Generation From Nonsilica Microstructured Optical Fibers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 738-749.	1.9	181
33	Rapid electron exchange between surface-exposed bacterial cytochromes and Fe(III) minerals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6346-6351.	3.3	179
34	Modeling large air fraction holey optical fibers. <i>Journal of Lightwave Technology</i> , 2000, 18, 50-56.	2.7	178
35	A transâ€™outer membrane porinâ€™cytochrome protein complex for extracellular electron transfer by <i>Geobacter sulfurreducens</i> â€™...PCA. <i>Environmental Microbiology Reports</i> , 2014, 6, 776-785.	1.0	178
36	First demonstration and detailed characterization of a multimode amplifier for space division multiplexed transmission systems. <i>Optics Express</i> , 2011, 19, B952.	1.7	174

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37	High-energy, high-power ytterbium-doped Q-switched fiber laser. <i>Optics Letters</i> , 2000, 25, 37.	1.7	172
38	320 fs soliton generation with passively mode-locked erbium fibre laser. <i>Electronics Letters</i> , 1991, 27, 730.	0.5	171
39	Respiratory Detoxification of Nitric Oxide by the Cytochrome c Nitrite Reductase of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 23664-23669.	1.6	171
40	Bacterial Adaptation of Respiration from Oxidic to Microoxidic and Anoxic Conditions: Redox Control. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 819-852.	2.5	170
41	Hollow-core photonic bandgap fibers: technology and applications. <i>Nanophotonics</i> , 2013, 2, 315-340.	2.9	170
42	Ultra-flat SPM-broadened spectra in a highly nonlinear fiber using parabolic pulses formed in a fiber Bragg grating. <i>Optics Express</i> , 2006, 14, 7617.	1.7	167
43	Selfstarting, passively modelocked erbium fibre ring laser based on the amplifying Sagnac switch. <i>Electronics Letters</i> , 1991, 27, 542.	0.5	165
44	Cladding pumped Ytterbium-doped fiber laser with holey inner and outer cladding. <i>Optics Express</i> , 2001, 9, 714.	1.7	165
45	Highly nonlinear and anomalously dispersive lead silicate glass holey fibers. <i>Optics Express</i> , 2003, 11, 3568.	1.7	165
46	Diode-pumped wideband thulium-doped fiber amplifiers for optical communications in the 1800–2050 nm window. <i>Optics Express</i> , 2013, 21, 26450.	1.7	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. <i>Journal of Lightwave Technology</i> , 2001, 19, 1352-1365.	2.7	159
48	158-ÅµJ pulses from a single-transverse-mode, large-mode-area erbium-doped fiber amplifier. <i>Optics Letters</i> , 1997, 22, 378.	1.7	157
49	737 Tb/s (96 x 3 x 256-Gb/s) mode-division-multiplexed DP-16QAM transmission with inline MM-EDFA. <i>Optics Express</i> , 2012, 20, B428.	1.7	156
50	Toward practical holey fiber technology: fabrication, splicing, modeling, and characterization. <i>Optics Letters</i> , 1999, 24, 1203.	1.7	153
51	Nonlinear self-switching and multiple gap-soliton formation in a fiber Bragg grating. <i>Optics Letters</i> , 1998, 23, 328.	1.7	152
52	Structure and Spectroscopy of the Periplasmic Cytochrome c Nitrite Reductase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2002, 41, 2921-2931.	1.2	151
53	Extruded singlemode non-silica glass holey optical fibres. <i>Electronics Letters</i> , 2002, 38, 546.	0.5	149
54	Characterization of Protein-Protein Interactions Involved in Iron Reduction by <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5797-5808.	1.4	145

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55	Multilevel quantization of optical phase in a novel coherent parametric mixer architecture. <i>Nature Photonics</i> , 2011, 5, 748-752.	15.6	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. <i>Molecular Microbiology</i> , 1995, 15, 319-331.	1.2	144
57	Propagation of Cold Atoms along a Miniature Magnetic Guide. <i>Physical Review Letters</i> , 2000, 84, 1371-1373.	2.9	144
58	Optical manipulation of microspheres along a subwavelength optical wire. <i>Optics Letters</i> , 2007, 32, 3041.	1.7	144
59	Developing holey fibres for evanescent field devices. <i>Electronics Letters</i> , 1999, 35, 1188.	0.5	142
60	Rectangular pulse generation based on pulse reshaping using a superstructured fiber Bragg grating. <i>Journal of Lightwave Technology</i> , 2001, 19, 746-752.	2.7	142
61	Single-mode tellurite glass holey fiber with extremely large mode area for infrared nonlinear applications. <i>Optics Express</i> , 2008, 16, 13651.	1.7	140
62	Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer.. <i>Scientific Reports</i> , 2015, 5, 11677.	1.6	138
63	Supercontinuum generation at 1.06 μm in holey fibers with dispersion flattened profiles. <i>Optics Express</i> , 2006, 14, 4445.	1.7	137
64	2R-regenerative all-optical switch based on a highly nonlinear holey fiber. <i>Optics Letters</i> , 2001, 26, 1233.	1.7	135
65	Nonlinear femtosecond pulse compression at high average power levels by use of a large-mode-area holey fiber. <i>Optics Letters</i> , 2003, 28, 1951.	1.7	131
66	Spectroscopic Characterization of a Novel Multiheme-Type Cytochrome Widely Implicated in Bacterial Electron Transport. <i>Journal of Biological Chemistry</i> , 1998, 273, 28785-28790.	1.6	129
67	Small-core silica holey fibers: nonlinearity and confinement loss trade-offs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1427.	0.9	128
68	Nitrate reduction in the periplasm of gram-negative bacteria. <i>Advances in Microbial Physiology</i> , 2001, 45, 51-112.	1.0	126
69	High-energy single-transverse-mode Q-switched fiber laser based on a multimode large-mode-area erbium-doped fiber. <i>Optics Letters</i> , 1998, 23, 1683.	1.7	124
70	Large Mode Area Fibers for High Power Applications. <i>Optical Fiber Technology</i> , 1999, 5, 185-196.	1.4	124
71	Characteristics of Q-switched cladding-pumped ytterbium-doped fiber lasers with different high-energy fiber designs. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 199-206.	1.0	121
72	Holey fibers with random cladding distributions. <i>Optics Letters</i> , 2000, 25, 206.	1.7	120

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73	High-nonlinearity dispersion-shifted lead-silicate holey fibers for efficient 1-/spl mu/m pumped supercontinuum generation. <i>Journal of Lightwave Technology</i> , 2006, 24, 183-190.	2.7	120
74	Micro-channels machined in microstructured optical fibers by femtosecond laser. <i>Optics Express</i> , 2007, 15, 8731.	1.7	118
75	High power pulsed fiber MOPA system incorporating electro-optic modulator based adaptive pulse shaping. <i>Optics Express</i> , 2009, 17, 20927.	1.7	117
76	The purification of a cd1-type nitrite reductase from, and the absence of a copper-type nitrite reductase from, the aerobic denitrifier <i>Thiosphaera pantotropha</i> ; the role of pseudoazurin as an electron donor. <i>FEBS Journal</i> , 1993, 212, 377-385.	0.2	116
77	Characterization of a self-starting, passively mode-locked fiber ring laser that exploits nonlinear polarization evolution. <i>Optics Letters</i> , 1993, 18, 358.	1.7	115
78	Catalytic Protein Film Voltammetry from a Respiratory Nitrate Reductase Provides Evidence for Complex Electrochemical Modulation of Enzyme Activity. <i>Biochemistry</i> , 2001, 40, 11294-11307.	1.2	115
79	Compound-glass optical nanowires. <i>Electronics Letters</i> , 2005, 41, 400.	0.5	114
80	Picosecond fiber MOPA pumped supercontinuum source with 39 W output power. <i>Optics Express</i> , 2010, 18, 5426.	1.7	113
81	Noise suppression of incoherent light using a gain-saturated SOA: implications for spectrum-sliced WDM systems. <i>Journal of Lightwave Technology</i> , 2005, 23, 2399-2409.	2.7	112
82	Demonstration of amplified data transmission at 2 Åµm in a low-loss wide bandwidth hollow core photonic bandgap fiber. <i>Optics Express</i> , 2013, 21, 28559.	1.7	112
83	100 Gbit/s WDM transmission at 2 Åµm: transmission studies in both low-loss hollow core photonic bandgap fiber and solid core fiber. <i>Optics Express</i> , 2015, 23, 4946.	1.7	111
84	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. <i>Scientific Reports</i> , 2017, 7, 22.	1.6	111
85	Four-wave mixing based 10-Gb/s tunable wavelength conversion using a holey fiber with a high SBS threshold. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 440-442.	1.3	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. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1013-1015.	1.3	109
87	Look on the positive side! The orientation, identification and bioenergetics of <i>Archaeal</i> ™ membrane-bound nitrate reductases. <i>FEMS Microbiology Letters</i> , 2007, 276, 129-139.	0.7	107
88	Demonstration of Berry's Phase Using Stored Ultracold Neutrons. <i>Physical Review Letters</i> , 1988, 61, 2030-2033.	2.9	105
89	Purification and Magneto-optical Spectroscopic Characterization of Cytoplasmic Membrane and Outer Membrane Multiheme c-Type Cytochromes from <i>Shewanella frigidimarina</i> NCIMB400. <i>Journal of Biological Chemistry</i> , 2000, 275, 8515-8522.	1.6	105
90	Optical microfiber coupler for broadband single-mode operation. <i>Optics Express</i> , 2009, 17, 5273.	1.7	105

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91	Nonlinear propagation effects in an AlGaAs Bragg grating filter. <i>Optics Letters</i> , 1999, 24, 685.	1.7	104
92	Generation of a 40-GHz pulse stream by pulse multiplication with a sampled fiber Bragg grating. <i>Optics Letters</i> , 2000, 25, 521.	1.7	103
93	Cladding pumped few-mode EDFA for mode division multiplexed transmission. <i>Optics Express</i> , 2014, 22, 29008.	1.7	103
94	Greater than 20%-efficient frequency doubling of 1532-nm nanosecond pulses in quasi-phase-matched germanosilicate optical fibers. <i>Optics Letters</i> , 1999, 24, 208.	1.7	102
95	Parabolic pulse generation through passive nonlinear pulse reshaping in a normally dispersive two segment fiber device. <i>Optics Express</i> , 2007, 15, 852.	1.7	102
96	Parabolic pulse evolution in normally dispersive fiber amplifiers preceding the similariton formation regime. <i>Optics Express</i> , 2006, 14, 3161.	1.7	100
97	Models for Molybdenum Coordination during the Catalytic Cycle of Periplasmic Nitrate Reductase from <i>Paracoccus denitrificans</i> Derived from EPR and EXAFS Spectroscopy. <i>Biochemistry</i> , 1999, 38, 9000-9012.	1.2	99
98	The Nitric Oxide Reductase Activity of Cytochrome c Nitrite Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 9587-9594.	1.6	97
99	Antiresonant Hollow Core Fiber With an Octave Spanning Bandwidth for Short Haul Data Communications. <i>Journal of Lightwave Technology</i> , 2017, 35, 437-442.	2.7	96
100	Fiber LPG Mode Converters and Mode Selection Technique for Multimode SDM. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1922-1925.	1.3	95
101	Understanding bending losses in holey optical fibers. <i>Optics Communications</i> , 2003, 227, 317-335.	1.0	94
102	Spectropotentiometric and Structural Analysis of the Periplasmic Nitrate Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 6425-6437.	1.6	94
103	Design scaling rules for 2R-optical self-phase modulation-based regenerators. <i>Optics Express</i> , 2007, 15, 5100.	1.7	94
104	High-power, high repetition rate picosecond and femtosecond sources based on Yb-doped fiber amplification of VECSELS. <i>Optics Express</i> , 2006, 14, 9611.	1.7	93
105	Robustly single mode hollow core photonic bandgap fiber. <i>Optics Express</i> , 2008, 16, 4337.	1.7	92
106	Broadband single-mode operation of standard optical fibers by using a sub-wavelength optical wire filter. <i>Optics Express</i> , 2008, 16, 14661.	1.7	92
107	Constraining the conditions conducive to dissimilatory nitrate reduction to ammonium in temperate arable soils. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1607-1611.	4.2	92
108	Adaptive pulse shape control in a diode-seeded nanosecond fiber MOPA system. <i>Optics Express</i> , 2006, 14, 10996.	1.7	91

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109	High-resolution microwave frequency transfer over an 86-km-long optical fiber network using a mode-locked laser. <i>Optics Letters</i> , 2011, 36, 511.	1.7	91
110	Accurate modal gain control in a multimode erbium doped fiber amplifier incorporating ring doping and a simple LP ₀₁ pump configuration. <i>Optics Express</i> , 2012, 20, 20835.	1.7	91
111	The mathematical modelling of capillary drawing for holey fibre manufacture. <i>Journal of Engineering Mathematics</i> , 2002, 43, 201-227.	0.6	90
112	Optical Parabolic Pulse Generation and Applications. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1482-1489.	1.0	89
113	Supercontinuum generation in non-silica fibers. <i>Optical Fiber Technology</i> , 2012, 18, 327-344.	1.4	89
114	Pulse repetition rates in passive, selfstarting, femtosecond soliton fibre laser. <i>Electronics Letters</i> , 1991, 27, 1451.	0.5	88
115	Raman effects in a highly nonlinear holey fiber: amplification and modulation. <i>Optics Letters</i> , 2002, 27, 424.	1.7	88
116	Optimizing the usable bandwidth and loss through core design in realistic hollow-core photonic bandgap fibers. <i>Optics Express</i> , 2006, 14, 7974.	1.7	88
117	Resolution of Distinct Membrane-Bound Enzymes from <i>Enterobacter cloacae</i> SLD1a-1 That Are Responsible for Selective Reduction of Nitrate and Selenate Oxyanions. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5173-5180.	1.4	88
118	Protein Film Voltammetry Reveals Distinctive Fingerprints of Nitrite and Hydroxylamine Reduction by a Cytochrome c Nitrite Reductase. <i>Journal of Biological Chemistry</i> , 2002, 277, 23374-23381.	1.6	87
119	Intensity measurement bend sensors based on periodically tapered soft glass fibers. <i>Optics Letters</i> , 2011, 36, 558.	1.7	87
120	Demonstration of a four-channel WDM/OCDMA system using 255-chip 320-Gchip/s quaternary phase coding gratings. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 227-229.	1.3	86
121	Stretched pulse Yb ³⁺ :silica fiber laser. <i>Optics Letters</i> , 1997, 22, 316.	1.7	84
122	Signal peptide-chaperone interactions on the twin-arginine protein transport pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8460-8465.	3.3	84
123	Mid-infrared ZBLAN fiber supercontinuum source using picosecond diode-pumping at 2 μm . <i>Optics Express</i> , 2013, 21, 24281.	1.7	83
124	NapGH components of the periplasmic nitrate reductase of <i>Escherichia coli</i> K-12: location, topology and physiological roles in quinol oxidation and redox balancing. <i>Biochemical Journal</i> , 2004, 379, 47-55.	1.7	80
125	Phase sensitive amplification based on quadratic cascading in a periodically poled lithium niobate waveguide. <i>Optics Express</i> , 2009, 17, 20393.	1.7	80
126	All-fiber, ultra-wideband tunable laser at 2 μm . <i>Optics Letters</i> , 2013, 38, 4739.	1.7	80

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127	A holey fiber-based nonlinear thresholding device for optical CDMA receiver performance enhancement. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 876-878.	1.3	78
128	Broadband high birefringence and polarizing hollow core antiresonant fibers. <i>Optics Express</i> , 2016, 24, 22943.	1.7	78
129	Purification and characterization of a nitrous oxide reductase from <i>Thiosphaera pantotropha</i> . Implications for the mechanism of aerobic nitrous oxide reduction. <i>FEBS Journal</i> , 1993, 212, 467-476.	0.2	77
130	Open conformation of a flavocytochrome c3 fumarate reductase. <i>Nature Structural Biology</i> , 1999, 6, 1104-1107.	9.7	77
131	All-optical and gate based on coupled gap-soliton formation in a fiber Bragg grating. <i>Optics Letters</i> , 1998, 23, 259.	1.7	76
132	Ultrashort-pulse Yb ³⁺ -fiber-based laser and amplifier system producing >25-W average power. <i>Optics Letters</i> , 2004, 29, 2073.	1.7	76
133	Ultralow thermal sensitivity of phase and propagation delay in hollow core optical fibres. <i>Scientific Reports</i> , 2015, 5, 15447.	1.6	75
134	High Capacity Mode-Division Multiplexed Optical Transmission in a Novel 37-cell Hollow-Core Photonic Bandgap Fiber. <i>Journal of Lightwave Technology</i> , 2014, 32, 854-863.	2.7	74
135	Reconfigurable Modal Gain Control of a Few-Mode EDFA Supporting Six Spatial Modes. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1100-1103.	1.3	74
136	Comparative study of large-mode holey and conventional fibers. <i>Optics Letters</i> , 2001, 26, 1045.	1.7	73
137	Soliton transmission and supercontinuum generation in holey fiber, using a diode pumped Ytterbium fiber source. <i>Optics Express</i> , 2002, 10, 382.	1.7	73
138	Tuning a Nitrate Reductase for Function. <i>Journal of Biological Chemistry</i> , 2004, 279, 32212-32218.	1.6	73
139	The X-ray crystal structure of <i>Shewanella oneidensis</i> OmcA reveals new insight at the microbe-mineral interface. <i>FEBS Letters</i> , 2014, 588, 1886-1890.	1.3	73
140	Fibre-optic metadvice for all-optical signal modulation based on coherent absorption. <i>Nature Communications</i> , 2018, 9, 182.	5.8	73
141	The effect of core asymmetries on the polarization properties of hollow core photonic bandgap fibers. <i>Optics Express</i> , 2005, 13, 9115.	1.7	71
142	Structural diversity in twin-arginine signal peptide-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15641-15646.	3.3	71
143	Dissemination of an optical frequency comb over fiber with 3 Å— 10 ⁻¹⁸ fractional accuracy. <i>Optics Express</i> , 2012, 20, 1775.	1.7	69
144	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. <i>Water Research</i> , 2015, 71, 21-31.	5.3	69

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145	Low-Loss 25.3 km Few-Mode Ring-Core Fiber for Mode-Division Multiplexed Transmission. <i>Journal of Lightwave Technology</i> , 2017, 35, 1363-1368.	2.7	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. <i>Electronics Letters</i> , 1992, 28, 1842.	0.5	68
148	Practical low-noise stretched-pulse Yb ³⁺ -doped fiber laser. <i>Optics Letters</i> , 2002, 27, 291.	1.7	68
149	Extruded singlemode, high-nonlinearity, tellurite glass holey fibre. <i>Electronics Letters</i> , 2005, 41, 835.	0.5	68
150	Pulse retiming based on XPM using parabolic pulses formed in a fiber Bragg grating. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 829-831.	1.3	68
151	A 103 W erbium-ytterbium co-doped large-core fiber laser. <i>Optics Communications</i> , 2003, 227, 159-163.	1.0	67
152	Temperature and wavelength tuning of second-, third-, and fourth-harmonic generation in a two-dimensional hexagonally poled nonlinear crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 2263.	0.9	66
153	Detailed characterization of a fiber-optic parametric amplifier in phase-sensitive and phase-insensitive operation. <i>Optics Express</i> , 2010, 18, 4130.	1.7	66
154	114 Gbit/s soliton train generation through Raman self-scattering of a dual frequency beat signal in dispersion decreasing optical fiber. <i>Applied Physics Letters</i> , 1993, 63, 293-295.	1.5	65
155	Low-loss and low-bend-sensitivity mid-infrared guidance in a hollow-core photonic-bandgap fiber. <i>Optics Letters</i> , 2014, 39, 295.	1.7	65
156	High-Capacity Directly Modulated Optical Transmitter for 2-1/4m Spectral Region. <i>Journal of Lightwave Technology</i> , 2015, 33, 1373-1379.	2.7	65
157	0.174 dB/km Hollow Core Double Nested Antiresonant Nodeless Fiber (DNANF). , 2022, , .		65
158	Nitrous oxide production in soil isolates of nitrate-ammonifying bacteria. <i>Environmental Microbiology Reports</i> , 2012, 4, 66-71.	1.0	64
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