Karsten Rottwitt

List of Publications by Year
in descending order

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218 papers	3,723 citations	218677 26 h-index	155660 55 g-index
221 all docs	221 docs citations	221 times ranked	3327 citing authors

#	Article	IF	Citations
1	Multidimensional quantum entanglement with large-scale integrated optics. Science, 2018, 360, 285-291.	12.6	554
2	Pump interactions in a 100-nm bandwidth Raman amplifier. IEEE Photonics Technology Letters, 1999, 11, 530-532.	2.5	353
3	High-dimensional quantum key distribution based on multicore fiber using silicon photonic integrated circuits. Npj Quantum Information, 2017, 3, .	6.7	182
4	Chip-to-chip quantum teleportation and multi-photon entanglement in silicon. Nature Physics, 2020, 16, 148-153.	16.7	163
5	Generation and sampling of quantum states of light in a silicon chip. Nature Physics, 2019, 15, 925-929.	16.7	148
6	Orbital Angular Momentum States Enabling Fiber-based High-dimensional Quantum Communication. Physical Review Applied, 2019, 11, .	3.8	128
7	Experimental methods and modeling techniques for description of cell population heterogeneity. Biotechnology Advances, 2011, 29, 575-599.	11.7	108
8	A method to predict the Raman gain spectra of germanosilicate fibers with arbitrary index profiles. IEEE Photonics Technology Letters, 2002, 14, 24-26.	2.5	93
9	Rayleigh crosstalk in long cascades of distributed unsaturated Raman amplifiers. Electronics Letters, 1999, 35, 997.	1.0	84
10	12 mode, WDM, MIMO-free orbital angular momentum transmission. Optics Express, 2018, 26, 20225.	3.4	77
11	Scaling of the raman gain coefficient: applications to germanosilicate fibers. Journal of Lightwave Technology, 2003, 21, 1652-1662.	4.6	68
12	Inter-modal four-wave mixing study in a two-mode fiber. Optics Express, 2016, 24, 30338.	3.4	66
13	Advances in silica-based integrated optics. Optical Engineering, 2003, 42, 2821.	1.0	60
14	Amplitude Regeneration of RZ-DPSK Signals in Single-Pump Fiber-Optic Parametric Amplifiers. IEEE Photonics Technology Letters, 2009, 21, 872-874.	2.5	53
15	Temporal mode selectivity by frequency conversion in second-order nonlinear optical waveguides. Optics Express, 2013, 21, 13840.	3.4	52
16	Boosting the secret key rate in a shared quantum and classical fibre communication system. Communications Physics, 2019, 2, .	5.3	48
17	Analyzing the fundamental properties of Raman amplification in optical fibers. Journal of Lightwave Technology, 2005, 23, 3597-3605.	4.6	43
18	730-nm optical parametric conversion from near- to short-wave infrared band. Optics Express, 2008, 16, 5435.	3.4	43

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19	The fascinating diatom frustuleâ€"can it play a role for attenuation of UV radiation?. Journal of Applied Phycology, 2016, 28, 3295-3306.	2.8	42
20	3.28-Tb/s transmission over 3 x 100 km of nonzero-dispersion fiber using dual C- and L-band distributed Raman amplification. IEEE Photonics Technology Letters, 2000, 12, 1079-1081.	2.5	38
21	Dual-wavelength operation of a passively mode-locked â€œfigure-of-eightâ€•ytterbium-erbium fibre soliton laser. Optics Communications, 1994, 108, 297-301.	2.1	37
22	Space division multiplexing chip-to-chip quantum key distribution. Scientific Reports, 2017, 7, 12459.	3.3	32
23	Engineering spectrally unentangled photon pairs from nonlinear microring resonators by pump manipulation. Optics Letters, 2018, 43, 859.	3.3	31
24	Hongâ€"Ouâ€"Mandel interference between independent IIIâ€"V on silicon waveguide integrated lasers. Optics Letters, 2019, 44, 271.	3.3	31
25	Two-dimensional distributed-phase-reference protocol for quantum key distribution. Scientific Reports, 2016, 6, 36756.	3.3	30
26	Generation of infrared supercontinuum radiation: spatial mode dispersion and higher-order mode propagation in ZBLAN step-index fibers. Optics Express, 2013, 21, 10764.	3.4	26
27	High coincidence-to-accidental ratio continuous-wave photon-pair generation in a grating-coupled silicon strip waveguide. Applied Physics Express, 2017, 10, 062801.	2.4	26
28	Fast method for accurate prediction of fibre laser oscillation wavelength. Electronics Letters, 1991, 27, 1644.	1.0	25
29	Stable Transmission of High-Dimensional Quantum States Over a 2-km Multicore Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	2.9	25
30	Interaction of uniform phase picosecond pulses with chirped and unchirped photosensitive fibre Bragg gratings. Electronics Letters, 1994, 30, 995-996.	1.0	24
31	Photon-Pair Sources Based on Intermodal Four-Wave Mixing in Few-Mode Fibers. Fibers, 2018, 6, 32.	4.0	24
32	Path-encoded high-dimensional quantum communication over a 2-km multicore fiber. Npj Quantum Information, 2021, 7, .	6.7	24
33	Effects of initial overlap in a wavelength-division-multiplexed soliton transmission system. Optics Letters, 1993, 18, 1908.	3.3	23
34	Compact low-birefringence polarization beam splitter using vertical-dual-slot waveguides in silicon carbide integrated platforms. Photonics Research, 2022, 10, A8.	7.0	23
35	Detailed comparison of two approximate methods for the solution of the scalar wave equation for a rectangular optical waveguide. Journal of Lightwave Technology, 1993, 11, 429-433.	4.6	22
36	Long distance transmission through distributed erbium-doped fibers. Journal of Lightwave Technology, 1993, 11, 2105-2115.	4.6	22

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37	240-km repeater spacing in a 5280-km WDM system experiment using 8 x 2.5 Gb/s NRZ transmission. IEEE Photonics Technology Letters, 1998, 10, 893-895.	2.5	22
38	Polarization and spatial mode dependent four-wave mixing in a 4H-silicon carbide microring resonator. APL Photonics, 2021, 6, .	5.7	19
39	Air-cladded mode-group selective photonic lanterns for mode-division multiplexing. Optics Express, 2019, 27, 13329.	3.4	19
40	Simple fiber-optic low-temperature sensor that uses microbending loss. Optics Letters, 1991, 16, 1355.	3.3	18
41	Optimum position of isolators within erbium-doped fibers. IEEE Photonics Technology Letters, 1992, 4, 568-570.	2.5	18
42	Invited paper: Characterization of few mode fibers and devices. Optical Fiber Technology, 2019, 52, 101972.	2.7	18
43	Optimal design of single-cladded dispersion-compensating optical fibers. Optics Letters, 1994, 19, 457.	3.3	17
44	Quantum frequency translation by four-wave mixing in a fiber: low-conversion regime. Optics Express, 2012, 20, 8367.	3.4	17
45	Mode resolved bend-loss analysis in few-mode fibers using spatially and spectrally resolved imaging. Optics Letters, 2015, 40, 4583.	3.3	16
46	Polarization sensitivity of the nonlinear amplifying loop mirror. Optics Letters, 1996, 21, 1535.	3.3	15
47	Full and semi-analytic analyses of two-pump parametric amplification with pump depletion. Optics Express, 2011, 19, 6648.	3.4	15
48	Interference patterns and extinction ratio of the diatom Coscinodiscus granii. Optics Express, 2015, 23, 9543.	3.4	15
49	Temporally uncorrelated photon-pair generation by dual-pump four-wave mixing. Physical Review A, 2016, 94, .	2.5	15
50	Broadband higher order mode conversion using chirped microbend long period gratings. Optics Express, 2016, 24, 23969.	3.4	15
51	Spectrally pure heralded single photons by spontaneous four-wave mixing in a fiber: reducing impact of dispersion fluctuations. Optics Express, 2017, 25, 20835.	3.4	15
52	Unidirectional frequency conversion in microring resonators for on-chip frequency-multiplexed single-photon sources. New Journal of Physics, 2019, 21, 033037.	2.9	15
53	Quantum limited noise figure operation of high gain erbium doped fiber amplifiers. Journal of Lightwave Technology, 1993, 11, 1344-1352.	4.6	14
54	Formation and characterization of varied size germanium nanocrystals by electron microscopy, Raman spectroscopy, and photoluminescence. Optical Materials Express, 2011, 1, 643.	3.0	14

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55	Raman and loss induced quantum noise in depleted fiber optical parametric amplifiers. Optics Express, 2013, 21, 29320.	3.4	14
56	Parametric amplification and phase preserving amplitude regeneration of a 640 Gbit/s RZ-DPSK signal. Optics Express, 2013, 21, 25944.	3.4	14
57	Sub-100 fs pulses from an all-polarization maintaining Yb-fiber oscillator with an anomalous dispersion higher-order-mode fiber. Optics Express, 2015, 23, 26139.	3.4	14
58	Multichannel Photon-Pair Generation with Strong and Uniform Spectral Correlation in a Silicon Microring Resonator. Physical Review Applied, 2019, 12, .	3.8	14
59	Inter-modal Raman amplification of OAM fiber modes. APL Photonics, 2019, 4, .	5.7	14
60	Design of long distance distributed erbium doped fibre amplifier. Electronics Letters, 1992, 28, 287.	1.0	13
61	Asymmetric gain-saturated spectrum in fiber optical parametric amplifiers. Optics Express, 2012, 20, 15530.	3.4	13
62	Dynamic characterization and amplification of sub-picosecond pulses in fiber optical parametric chirped pulse amplifiers. Optics Express, 2013, 21, 26044.	3.4	13
63	Record-High Secret Key Rate for Joint Classical and Quantum Transmission Over a 37-Core Fiber. , 2018, , .		13
64	Fundamental design of a distributed erbium-doped fiber amplifier for long-distance transmission. Journal of Lightwave Technology, 1992, 10, 1544-1552.	4.6	12
65	Noise in distributed erbium-doped fibers. IEEE Photonics Technology Letters, 1993, 5, 218-221.	2.5	12
66	Optimization of Pumping Schemes for 160-Gb/s Single-Channel Raman Amplified Systems. IEEE Photonics Technology Letters, 2004, 16, 329-331.	2.5	12
67	Temporal mode sorting using dual-stage quantum frequency conversion by asymmetric Bragg scattering. Optics Express, 2015, 23, 23287.	3.4	12
68	Experimental characterization of Raman overlaps between mode-groups. Scientific Reports, 2016, 6, 34693.	3.3	12
69	Shape-preserving and unidirectional frequency conversion by four-wave mixing. Optics Express, 2018, 26, 17145.	3.4	12
70	Soliton transmission over more than 90 km using distributed erbium-doped fibres. Electronics Letters, 1995, 31, 219-220.	1.0	11
71	Effects of nonlinear phase modulation on Bragg scattering in the low-conversion regime. Optics Express, 2012, 20, 27454.	3.4	11
72	Full-vectorial propagation model and modified effective mode area of four-wave mixing in straight waveguides. Optics Letters, 2017, 42, 3670.	3.3	11

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73	Stability in distributed and lumped gain transmission systems. Optics Letters, 1993, 18, 867.	3.3	10
74	High-power figure-of-eight laser for soliton transmission experiments. Electronics Letters, 1995, 31, 645.	1.0	10
75	Suppression of Brillouin scattering in fibre-optical parametric amplifier by applying temperature control and phase modulation. Electronics Letters, 2009, 45, 125.	1.0	10
76	Experimental demonstration of intermodal nonlinear effects between full vectorial modes in a few moded fiber. Optics Express, 2013, 21, 28836.	3.4	10
77	Entanglement swapping for generation of heralded time-frequency-entangled photon pairs. Physical Review A, 2018, 98, .	2.5	10
78	<title>Optimizing gain and noise performance of EDFAs with insertion of a filter or an isolator</title>. , 1992, , .		9
79	Polarization-maintaining higher-order mode fiber module with anomalous dispersion at 1ÂÎ¼m. Optics Letters, 2012, 37, 4170.	3.3	9
80	Transverse Field Dispersion in the Generalized Nonlinear SchrÃ¶dinger Equation: Four Wave Mixing in a Higher Order Mode Fiber. Journal of Lightwave Technology, 2013, 31, 3425-3431.	4.6	9
81	Break up of the azimuthal symmetry of higher order fiber modes. Optics Express, 2014, 22, 11861.	3.4	9
82	Effects of noninstantaneous nonlinear processes on photon-pair generation by spontaneous four-wave mixing. Physical Review A, 2017, 95, .	2.5	9
83	Modeling of MIMO Less Mode Division Multiplexed Systems. IEEE Photonics Technology Letters, 2020, 32, 1191-1194.	2.5	9
84	Optimum signal wavelength for a distributed erbium-doped fiber amplifier. IEEE Photonics Technology Letters, 1992, 4, 714-717.	2.5	8
85	Impact of the Scalar Approximation on the Prediction of the Group Velocity Dispersion. Journal of Lightwave Technology, 2011, 29, 3129-3134.	4.6	8
86	Geometric interpretation of four-wave mixing. Physical Review A, 2013, 88, .	2.5	8
87	Broadband wavelength conversion in a silicon vertical-dual-slot waveguide. Optics Express, 2017, 25, 32964.	3.4	8
88	12 Mode, MIMO-Free OAM Transmission. , 2017, , .		8
89	Pump-To-Signal Intensity Modulation Transfer Characteristics in FOPAs: Modulation Frequency and Saturation Effect. Journal of Lightwave Technology, 2012, 30, 3061-3067.	4.6	7
90	Complete evolution equation for the joint amplitude in photon-pair generation through spontaneous four-wave mixing. Physical Review A, 2019, 100, .	2.5	7

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91	Optimum design of erbium fibre amplifiers pumped with sources emitting at 1480 nm. Electronics Letters, 1990, 26, 1419.	1.0	7
92	9 dB gain improvement of 1300 nm optical amplifier by amplified spontaneous emission suppressing fibre design. Electronics Letters, 1991, 27, 1701.	1.0	7
93	Optimum design of Nd-doped fiber optical amplifiers. IEEE Photonics Technology Letters, 1992, 4, 49-51.	2.5	6
94	91-km attenuation-free transmission with low noise accumulation by use of distributed erbium-doped fiber. Optics Letters, 1995, 20, 1250.	3.3	6
95	Raman probes based on optically-poled double-clad fiber and coupler. Optics Express, 2012, 20, 28563.	3.4	6
96	Comparing optical properties of different species of diatoms. , 2015, , .		5
97	Effects of Raman scattering and attenuation in silica fiber-based parametric frequency conversion. Optics Express, 2017, 25, 7324.	3.4	5
98	Fiber optical trap deposition of carbon nanotubes on fiber end-faces in a modelocked laser. , 2008, , .		5
99	Mode Division Multiplexing on Standard 50/125 Âµm Multi Mode Fiber using Photonic Lanterns. , 2021, , .		5
100	Measurement and Modeling of Low-Wavelength Losses in Silica Fibers and Their Impact at Communication Wavelengths. Journal of Lightwave Technology, 2009, 27, 1296-1300.	4.6	4
101	Frequency stepped pulse train modulated wind sensing lidar. , 2011, , .		4
102	Experimental investigation of saturation effect on pump-to-signal intensity modulation transfer in single-pump phase-insensitive fiber optic parametric amplifiers. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 884.	2.1	4
103	Fiber-Optical Parametric Amplification of Sub-Picosecond Pulses for High-Speed Optical Communications. Fiber and Integrated Optics, 2015, 34, 23-37.	2.5	4
104	Light interaction with nano-structured diatom frustule, from UV-A to NIR. MRS Advances, 2016, 1, 3811-3816.	0.9	4
105	Generation of two-temporal-mode photon states by vector four-wave mixing. Optics Express, 2017, 25, 20877.	3.4	4
106	Distributed Raman Amplifiers. , 2005, , 103-168.		4
107	Broadband air-clad LP₀₂ mode converter using a tapered mode transition. Optics Letters, 2022, 47, 38.	3.3	4
108	Numerical modeling of an integrated erbium-doped glass laser. Fiber and Integrated Optics, 1991, 10, 239-243.	2.5	3

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109	Gain Variations for an Erbium Doped Fiber Amplifier in a Temperature-Range from 45 K to 320 K. Journal of Optical Communications, 1992, 13, .	4.7	3
110	Brillouin suppression in a fiber optical parametric amplifier by combining temperature distribution and phase modulation. , 2008, , .		3
111	Dynamic range enhancement and amplitude regeneration in single pump fibre optic parametric amplifiers using DPSK modulation. , 2008, , .		3
112	Focus Issue Introduction: Nonlinear Photonics. Optics Express, 2012, 20, 27212.	3.4	3
113	Flexible cross-correlated (C^2) imaging method for the modal content characterization in a broad range of wavelengths. Optics Express, 2017, 25, 5521.	3.4	3
114	Experimentally Validated Dispersion Tailoring in a Silicon Strip Waveguide With Alumina Thin-Film Coating. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	3
115	Feasibility of Quantum Communications in Aquatic Scenario. , 2018, , .		3
116	Fiber mode excitation using phase-only spatial light modulation: Guideline on free-space path design and lossless optimization. AIP Advances, 2018, 8, .	1.3	3
117	The Bowtie Effect in Cylindrical Waveguides. Journal of Lightwave Technology, 2018, 36, 3309-3317.	4.6	3
118	Effects of higher-order dispersion on photon-pair generation by four-wave mixing. Physical Review A, 2019, 99, .	2.5	3
119	MDM Transmission Using Air-Clad Photonic Lanterns. IEEE Photonics Technology Letters, 2020, 32, 1049-1052.	2.5	3
120	Quantum Communication with Orbital Angular Momentum. , 2020, , .		3
121	Toward Fullyâ€Fledged Quantum and Classical Communication Over Deployed Fiber with Upâ€Conversion Module. Advanced Quantum Technologies, 2021, 4, 2000156.	3.9	3
122	<title>Demand for accuracy of the attenuation constant in distributed active fibers</title>. , 1992, , .		2
123	Optimum placement of filters in 1300 nm Nd-fibre amplifiers. Optics Communications, 1992, 89, 30-32.	2.1	2
124	Raman effect in transparent distributed erbium-doped fibre. Optics Communications, 1994, 106, 183-186.	2.1	2
125	A generic lightwave integrated chip (GLIC) for fast high-resolution wavelength monitoring. , 2006, , .		2
126	Gain optimization in fiber optical parametric amplifiers by combining standard and high-SBS threshold highly nonlinear fibers. , 2012, , .		2

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127	Design of an 1800nm Raman amplifier. , 2013, , .		2
128	Highly Stable PM Raman Fiber Laser at 1680 nm. , 2013, , .		2
129	Quantitative evaluation of standard deviations of group velocity dispersion in optical fibre using parametric amplification. Electronics Letters, 2014, 50, 199-200.	1.0	2
130	Challenges in higher order mode Raman amplifiers. , 2015, , .		2
131	Two-Dimensional Quantum Key Distribution (QKD) Protocol for Increased Key Rate Fiber-Based Quantum Communications. , 2017, , .		2
132	Raman amplification of OAM modes. , 2017, , .		2
133	Analytic description of four-wave mixing in silicon-on-insulator waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 702.	2.1	2
134	Fiber-based high-dimensional quantum key distribution with twisted photons. , 2018, , .		2
135	Detailed phase matching characterization of inter-modal four-wave mixing in a two-mode fiber. , 2016, , .		2
136	Spectrally unentangled photon pairs from microring resonators using pump-pulse tailoring. , 2018, , .		2
137	Integrated Quantum Photonics on Silicon Platform. , 2020, , .		2
138	Optimum use of cascade coupled in-line amplifiers for soliton communication systems. Optics Communications, 1991, 84, 339-342.	2.1	1
139	Brillouin Scattering in Fiber Optical Parametric Amplifiers. , 2007, , .		1
140	Low Wavelength Loss of Germanium Doped Silica Fibers. , 2008, , .		1
141	Saturation effect on pump-to-signal intensity modulation transfer in single-pump phase-insensitive fibre optic parametric amplifiers. , 2011, , .		1
142	Accurate simulation of Raman amplified lightwave synthesized frequency sweeper. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1493.	2.1	1
143	Frequency noise in frequency swept fiber laser. Optics Letters, 2013, 38, 1089.	3.3	1
144	Divergence Angle as a Quality Parameter for Fiber Modes. , 2014, , .		1

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145	Nonlinear Optical Signal Processing and Generation of Quantum States using Intermodal Four-wave Mixing. , 2018, , .		1
146	Large-scale Integration of Multidimensional Quantum Photonics Circuits on Silicon. , 2018, , .		1
147	Quantum Information Processing Using Intermodal Four-Wave Mixing in Multi-Mode Optical Fibers. , 2019, , .		1
148	Characterization of few mode fiber components and connected systems. Optics Express, 2021, 29, 1140.	3.4	1
149	Intermodal Raman Scattering between Full Vectorial Modes in Few Moded Fiber. , 2013, , .		1
150	A Novel Fabrication Method for Photonic Lanterns. , 2018, , .		1
151	Fibre Amplifiers. Springer Series in Optical Sciences, 2012, , 473-509.	0.7	1
152	Parametric Amplification of a 640 Gbit/s RZ-DPSK Signal. , 2013, , .		1
153	Experimental Demonstration of Phase Sensitive Parametric Processes in a Nano-Engineered Silicon Waveguide. , 2013, , .		1
154	Silicon photonics for multicore fiber communication. , 2016, , .		1
155	Determining the group velocity dispersion by field analysis for the LP_0X, LP_1X, and LP_2X mode groups independently of the fiber length: applications to step-index fibers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 7.	2.1	1
156	Four-wave mixing in orbital angular momentum modes. , 2019, , .		1
157	Polarization Dependence of Mode-Group Selective Air-Clad Photonic Lantern. , 2019, , .		1
158	A Converter for Transmission With Singlemode Performance on OM2/3/4/5 Multimode Fibers. IEEE Photonics Technology Letters, 2022, 34, 571-574.	2.5	1
159	The influence of nonfundamental pump modes in erbium-doped fiber amplifiers. Fiber and Integrated Optics, 1991, 10, 11-21.	2.5	0
160	Performance improvement of direct detection systems using local and/or long-distance pumped fiber amplifiers. Fiber and Integrated Optics, 1991, 10, 215-223.	2.5	0
161	<title>Performance improvement of direct detection systems using local and/or long-distance-pumped fiber amplifiers</title>. , 1992, 1581, 209.		0
162	Maximum gain in optical amplifier-based systems as determined from reflections and backscattering effects. Applied Optics, 1992, 31, 3386.	2.1	0

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163	Experimental investigation of tapered erbium-doped fiber amplifiers. , 1993, , .		0
164	<title>Silica waveguide integrated optical isolator</title>. , 1993, , .		0
165	Long-haul transmission in aluminum- and germanium-codoped distributed erbium-doped fibers. , 1993, , .		0
166	Advances with silica-on-silicon planar waveguides. , 2003, 4987, 126.		0
167	Supercontinuum Generation in Fibers Infiltrated with Liquid Crystals. , 2006, , .		0
168	Ge nanostructures doped silica-on-silicon waveguides. Proceedings of SPIE, 2007, , .	0.8	0
169	Fabrication of Ge nanocrystals doped silica-on-silicon waveguides and observation of their strong quantum confinement effect. , 2008, , .		0
170	Gain characteristics of a saturated fiber optic parametric amplifier. , 2008, , .		0
171	Spontaneous emission from saturated parametric amplifiers. , 2009, , .		0
172	Raman Scattering in a Dimethyl Sulfoxide-Filled Hollow-Core Photonic Crystal Fiber. , 2010, , .		0
173	Experimental investigation of pump-to-signal noise transfer in one-pump phase insensitive fibre optic parametric amplifiers. , 2011, , .		0
174	Extinction ratio and gain optimization of dual-pump degenerate-idler phase sensitive amplifiers. , 2011, , .		0
175	The raman contribution to the intensity dependent refractive index in optical fibers. , 2011, , .		0
176	Synthesis of flat-top gain response in fiber phase sensitive amplifiers with improved phase noise regeneration tolerance. , 2012, , .		0
177	Pulse Distortion in Saturated Fiber Optical Parametric Chirped Pulse Amplification. , 2012, , .		0
178	Numerical modelling of spontaneous emission in optical parametric amplifiers. , 2013, , .		0
179	Quantum and Raman Noise in a Depleted Fiber Optical Parametric Amplifier. , 2013, , .		0
180	Monolithic PM Raman fiber laser at 1679 nm for Raman amplification at 1810 nm. , 2013, , .		0

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181	Mode selectivity with quantum-state-preserving frequency conversion using four-wave mixing. , 2013, , .		0
182	Effects of nonlinear phase modulation on quantum frequency conversion using four-wave mixing Bragg scattering. , 2013, , .		0
183	Quantum Frequency Conversion of Single-Photon States by Three and Four-Wave Mixing. , 2013, , .		0
184	Analytic model utilizing the complex ABCD method for range dependency of a monostatic coherent lidar. Applied Optics, 2014, 53, 5977.	1.8	0
185	Interferometric characterization of few-mode fibers (FMF) for mode-division multiplexing (MDM). Proceedings of SPIE, 2015, , .	0.8	0
186	Higher order mode optical fiber Raman amplifiers. , 2016, , .		0
187	High precision cross-correlated imaging in few-mode fibers. Proceedings of SPIE, 2017, , .	0.8	0
188	All-fiber photon-pair source at telecom wavelengths. , 2017, , .		0
189	Dispersion tailoring of a silicon strip waveguide employing Titania-Alumina thin-film coating. , 2017, , .		0
190	Study of Raman-free photon pair generation using inter-modal four-wave mixing in a few-mode silica fiber. , 2017, , .		0
191	Split-step scheme for photon-pair generation through spontaneous four-wave mixing. , 2017, , .		0
192	Free-Space Few-Mode Kramers-Kronig Receiver. , 2018, , .		0
193	Improved SBS Limited Parametric Conversion by Use of Few-Mode Fibers. , 2018, , .		0
194	Kilowatt-Level Parametric Wavelength Exchange using OAM Modes. , 2019, , .		0
195	Photon-Pair Parasites: Menace or Nuisance?. , 2019, , .		0
196	High-Dimensional Quantum Communication Using Space Encoding. , 2019, , .		0
197	Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	0
198	Wavelength Conversion by Cascaded FWM in a Fiber Optical Parametric Oscillator. , 2011, , .		0

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199	Selfhealing of asymmetric Bessel-like modes. , 2014, , .		0
200	Effects of Raman scattering in quantum state-preserving frequency conversion. , 2014, , .		0
201	Generation of pure heralded single-photon states by cross-polarized spontaneous four-wave mixing. , 2016, , .		0
202	Near-infrared photon-pair generation by intermodal four-wave mixing in a few-mode fiber. , 2017, , .		0
203	Fiber Amplifiers. Springer Series in Optical Sciences, 2017, , 585-627.	0.7	0
204	Low loss 19-cell hollow core photonic bandgap fiber as transmission medium for mode division multiplexed system. , 2017, , .		0
205	Azimuthal asymmetry in HE1,X modes analyzed. , 2017, , .		0
206	Towards the Use of Machine Learning in Setups for OAM Mode Excitation in Optical Fibers. , 2018, , .		0
207	Unidirectional Frequency Conversion in Silicon-based Double-Ring Microresonator. , 2018, , .		0
208	Heralded single-photon source based on intermodal four-wave mixing in a few-mode fiber. , 2018, , .		0
209	Mode-Group Selective Air-Clad Photonic Lantern. , 2018, , .		0
210	Direct Measurement of Polarization Dependency of Mode Conversion in a Long Period Grating. , 2019, , .		0
211	Silicon photonics for quantum information technologies. , 2019, , .		0
212	SLM phase mask optimization for fiber OAM mode excitation. , 2019, , .		0
213	Fiber-based high-dimensional quantum communications. , 2019, , .		0
214	Cross Talk and Interference in MIMO less Few Mode Transmission Systems. , 2020, , .		0
215	Intermodal Raman Scattering between Orbital Angular Momentum Modes in Optical Fibers. , 2020, , .		0
216	Determining the group velocity dispersion by field analysis for the LP_0X, LP_1X, and LP_2X mode groups independently of the fiber length: applications to step-index fibers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2662.	2.1	0

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217	Electrooptic control of the modal distribution in a silicate fiber. Optics Express, 2022, 30, 12474.	3.4	0
218	Air-clad photonic lanterns: fabrication and applications. Journal of Optics (United Kingdom), 0, , .	2.2	0