Kunimasa Saitoh

List of Publications by Year
in descending order

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386 papers	11,225 citations	30047 54 h-index	36008 97 g-index
387 all docs	387 docs citations	387 times ranked	3799 citing authors

#	Article	IF	Citations
1	Chromatic dispersion control in photonic crystal fibers: application to ultra-flattened dispersion. Optics Express, 2003, 11, 843.	1.7	647
2	Full-vectorial imaginary-distance beam propagation method based on a finite element scheme: application to photonic crystal fibers. IEEE Journal of Quantum Electronics, 2002, 38, 927-933.	1.0	484
3	Multicore Fiber Technology. Journal of Lightwave Technology, 2016, 34, 55-66.	2.7	337
4	Coupling characteristics of dual-core photonic crystal fiber couplers. Optics Express, 2003, 11, 3188.	1.7	258
5	Design of a Compact Two-Mode Multi/Demultiplexer Consisting of Multimode Interference Waveguides and a Wavelength-Insensitive Phase Shifter for Mode-Division Multiplexing Transmission. Journal of Lightwave Technology, 2012, 30, 2421-2426.	2.7	254
6	Leakage loss and group velocity dispersion in air-core photonic bandgap fibers. Optics Express, 2003, 11, 3100.	1.7	248
7	Heterogeneous multi-core fibers: proposal and design principle. IEICE Electronics Express, 2009, 6, 98-103.	0.3	248
8	Large-effective-area ten-core fiber with cladding diameter of about 200â€‰Î¼m. Optics Letters, 2011, 36, 4626.	1.7	231
9	Single-polarization single-mode photonic crystal fibers. IEEE Photonics Technology Letters, 2003, 15, 1384-1386.	1.3	225
10	Multi-core fiber design and analysis: coupled-mode theory and coupled-power theory. Optics Express, 2011, 19, B102.	1.7	220
11	Empirical relations for simple design of photonic crystal fibers. Optics Express, 2005, 13, 267.	1.7	211
12	Highly nonlinear dispersion-flattened photonic crystal fibers for supercontinuum generation in a telecommunication window. Optics Express, 2004, 12, 2027.	1.7	209
13	Numerical modeling of photonic crystal fibers. Journal of Lightwave Technology, 2005, 23, 3580-3590.	2.7	202
14	Analytical Expression of Average Power-Coupling Coefficients for Estimating Intercore Crosstalk in Multicore Fibers. IEEE Photonics Journal, 2012, 4, 1987-1995.	1.0	201
15	A large effective area multi-core fiber with an optimized cladding thickness. Optics Express, 2011, 19, B543.	1.7	184
16	Ultra-flattened chromatic dispersion controllability using a defected-core photonic crystal fiber with low confinement losses. Optics Express, 2005, 13, 8365.	1.7	173
17	Applicability of classical optical fiber theories to holey fibers. Optics Letters, 2004, 29, 1739.	1.7	159
18	Crosstalk and Core Density in Uncoupled Multicore Fibers. IEEE Photonics Technology Letters, 2012, 24, 1898-1901.	1.3	152

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19	409-Tb/s + 409-Tb/s crosstalk suppressed bidirectional MCF transmission over 450 km using propagation-direction interleaving. Optics Express, 2013, 21, 16777.	1.7	148
20	Polarization characteristics of photonic crystal fibers selectively filled with metal wires into cladding air holes. Optics Express, 2011, 19, 3799.	1.7	131
21	Full-vectorial finite element beam propagation method with perfectly matched layers for anisotropic optical waveguides. Journal of Lightwave Technology, 2001, 19, 405-413.	2.7	128
22	Air-core photonic band-gap fibers: the impact of surface modes. Optics Express, 2004, 12, 394.	1.7	125
23	Structural dependence of effective area and mode field diameter for holey fibers. Optics Express, 2003, 11, 1746.	1.7	124
24	Polarization splitter in three-core photonic crystal fibers. Optics Express, 2004, 12, 3940.	1.7	123
25	Design and analysis of large-effective-area heterogeneous trench-assisted multi-core fiber. Optics Express, 2012, 20, 15157.	1.7	122
26	Photonic bandgap fibers with high birefringence. IEEE Photonics Technology Letters, 2002, 14, 1291-1293.	1.3	119
27	Design and characterization of single-mode holey fibers with low bending losses. Optics Express, 2005, 13, 4770.	1.7	117
28	An Investigation on Crosstalk in Multi-Core Fibers by Introducing Random Fluctuation along Longitudinal Direction. IEICE Transactions on Communications, 2011, E94-B, 409-416.	0.4	111
29	A novel approach for designing photonic crystal fiber splitters with polarization-independent propagation characteristics. Optics Express, 2005, 13, 7365.	1.7	106
30	High-Spatial-Multiplicity Multicore Fibers for Future Dense Space-Division-Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 1464-1475.	2.7	104
31	Design of ultra compact all-optical XOR and AND logic gates with low power consumption. Optics Communications, 2011, 284, 3528-3533.	1.0	102
32	Two-mode PLC-based mode multi/demultiplexer for mode and wavelength division multiplexed transmission. Optics Express, 2013, 21, 25752.	1.7	99
33	Chromatic dispersion profile optimization of dual-concentric-core photonic crystal fibers for broadband dispersion compensation. Optics Express, 2006, 14, 893.	1.7	95
34	Mode multi/demultiplexing with parallel waveguide for mode division multiplexed transmission. Optics Express, 2014, 22, 29321.	1.7	90
35	Endlessly single-mode holey fibers: the influence of core design. Optics Express, 2005, 13, 10833.	1.7	88
36	Design of Three-Spatial-Mode Ring-Core Fiber. Journal of Lightwave Technology, 2014, 32, 1337-1343.	2.7	88

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37	Demonstration of mode-division multiplexing transmission over 10 km two-mode fiber with mode coupler. , 2011, , .		87
38	Physical interpretation of intercore crosstalk in multicore fiber: effects of macrobend, structure fluctuation, and microbend. Optics Express, 2013, 21, 5401.	1.7	87
39	Design of single-moded holey fibers with large-mode-area and low bending losses: the significance of the ring-core region. Optics Express, 2007, 15, 1794.	1.7	82
40	Few-Mode Multicore Fiber With 36 Spatial Modes (Three Modes (LP$_{f 01}$, LP$_{f 11a}$, LP$_{f) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	82
41	12-core fiber with one ring structure for extremely large capacity transmission. Optics Express, 2012, 20, 28398.	1.7	81
42	Simple analytical expression for crosstalk estimation in homogeneous trench-assisted multi-core fibers. Optics Express, 2014, 22, 23007.	1.7	79
43	Ytterbium-doped large-mode-area all-solid photonic bandgap fiber lasers. Optics Express, 2014, 22, 13962.	1.7	77
44	Nonreciprocal microresonators for the miniaturization of optical waveguide isolators. Optics Express, 2007, 15, 7737.	1.7	71
45	Mode area scaling with all-solid photonic bandgap fibers. Optics Express, 2012, 20, 26363.	1.7	71
46	Effectively single-mode all-solid photonic bandgap fiber with large effective area and low bending loss for compact high-power all-fiber lasers. Optics Express, 2012, 20, 15061.	1.7	68
47	Low-loss, compact, and fabrication-tolerant Si-wire 90Â° waveguide bend using clothoid and normal curves for large scale photonic integrated circuits. Optics Express, 2017, 25, 9150.	1.7	68
48	Design of miniaturized silicon wire and slot waveguide polarization splitterâ€based on a resonant tunneling. Optics Express, 2009, 17, 19225.	1.7	67
49	Numerical verification of degeneracy in hexagonal photonic crystal fibers. IEEE Photonics Technology Letters, 2001, 13, 1313-1315.	1.3	66
50	Multicore fibers for large capacity transmission. Nanophotonics, 2013, 2, 441-454.	2.9	62
51	A design method of a fiber-based mode multi/demultiplexer for mode-division multiplexing. Optics Express, 2010, 18, 4709.	1.7	60
52	Few-mode multicore fibers for long-haul transmission line. Optical Fiber Technology, 2017, 35, 19-27.	1.4	60
53	Finite-element analysis of birefringence and dispersion properties in actual and idealized holey-fiber structures. Applied Optics, 2003, 42, 6267.	2.1	57
54	Full-vectorial finite element method in a cylindrical coordinate system for loss analysis of photonic wire bends. Optics Express, 2006, 14, 11128.	1.7	57

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55	Large Effective-Area Few-Mode Multicore Fiber. IEEE Photonics Technology Letters, 2012, 24, 1941-1944.	1.3	56
56	PLC-based mode multi/demultiplexers for mode division multiplexing. Optical Fiber Technology, 2017, 35, 80-92.	1.4	54
57	Investigation on multi-core fibers with large Aeff and low micro bending loss. Optics Express, 2011, 19, 10595.	1.7	52
58	Six-Mode Seven-Core Fiber for Repeated Dense Space-Division Multiplexing Transmission. Journal of Lightwave Technology, 2018, 36, 1226-1232.	2.7	52
59	Confinement losses in air-guiding photonic bandgap fibers. IEEE Photonics Technology Letters, 2003, 15, 236-238.	1.3	51
60	Dense SDM (12-Core x 3-Mode) Transmission Over 527 km With 33.2-ns Mode-Dispersion Employing Low-Complexity Parallel MIMO Frequency-Domain Equalization. Journal of Lightwave Technology, 2016, 34, 196-204.	2.7	51
61	Low-Loss and Low-DMD 6-Mode 19-Core Fiber With Cladding Diameter of Less Than 250 Î¼m. Journal of Lightwave Technology, 2017, 35, 443-449.	2.7	51
62	Design of photonic band gap fibers with suppressed higher-order modes: Towards the development of effectively single mode large hollow-core fiber platforms. Optics Express, 2006, 14, 7342.	1.7	50
63	Design of Optical XOR, XNOR, NAND, and OR Logic Gates Based on Multi-Mode Interference Waveguides for Binary-Phase-Shift-Keyed Signal. Journal of Lightwave Technology, 2011, 29, 2836-2846.	2.7	50
64	Optimized Design Method for Bend-Insensitive Heterogeneous Trench-Assisted Multi-Core Fiber With Ultra-Low Crosstalk and High Core Density. Journal of Lightwave Technology, 2013, 31, 2590-2598.	2.7	50
65	High group birefringence in air-core photonic bandgap fibers. Optics Letters, 2005, 30, 824.	1.7	49
66	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.	2.7	49
67	Wavelength-Dependence of Inter-Core Crosstalk in Homogeneous Multi-Core Fibers. IEEE Photonics Technology Letters, 2016, 28, 27-30.	1.3	48
68	TE/TM-Pass Polarizer Based on Lithium Niobate on Insulator Ridge Waveguide. IEEE Photonics Journal, 2013, 5, 6600610-6600610.	1.0	46
69	The role of artificial defects for engineering large effective mode area, flat chromatic dispersion, and low leakage losses in photonic crystal fibers: Towards high speed reconfigurable transmission platforms. Optics Express, 2006, 14, 901.	1.7	45
70	1.2 Pb/s Throughput Transmission Using a 160Âmum Cladding, 4-Core, 3-Mode Fiber. Journal of Lightwave Technology, 2019, 37, 1798-1804.	2.7	45
71	Design of narrow band-pass filters based on the resonant-tunneling phenomenon in multi-core photonic crystal fibers. Optics Express, 2005, 13, 10327.	1.7	44
72	PLC-based LP_11 mode rotator for mode-division multiplexing transmission. Optics Express, 2014, 22, 19117.	1.7	43

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73	Theoretical realization of holey fiber with flat chromatic dispersion and large mode area: an intriguing defected approach. Optics Letters, 2006, 31, 26.	1.7	40
74	Design and analysis of a broadband dispersion compensating photonic crystal fiber Raman amplifier operating in S-band. Optics Express, 2006, 14, 3528.	1.7	39
75	Design of all-solid leakage channel fibers with large mode area and low bending loss. Optics Express, 2009, 17, 4913.	1.7	38
76	Novel design of inherently gain-flattened discrete highly nonlinear photonic crystal fiber Raman amplifier and dispersion compensation using a single pump in C-band. Optics Express, 2005, 13, 9516.	1.7	37
77	A novel design for dispersion compensating photonic crystal fiber Raman amplifier. IEEE Photonics Technology Letters, 2005, 17, 2062-2064.	1.3	37
78	Mode-Division Multiplexing Transmission System With DMD-Independent Low Complexity MIMO Processing. Journal of Lightwave Technology, 2013, 31, 2192-2199.	2.7	37
79	Compact Polarization Rotator Based on Surface Plasmon Polariton With Low Insertion Loss. IEEE Photonics Journal, 2012, 4, 707-714.	1.0	36
80	Unique characteristic features of stimulated Brillouin scattering in small-core photonic crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 582.	0.9	35
81	Effective area limit of large-mode-area solid-core photonic bandgap fibers for fiber laser applications. Optical Fiber Technology, 2010, 16, 409-418.	1.4	35
82	Crosstalk behavior of cores in multi-core fiber under bent condition. IEICE Electronics Express, 2011, 8, 385-390.	0.3	35
83	Heterogeneous trench-assisted few-mode multi-core fiber with low differential mode delay. Optics Express, 2014, 22, 4329.	1.7	35
84	Multiple resonant coupling mechanism for suppression of higher-order modes in all-solid photonic bandgap fibers with heterostructured cladding. Optics Express, 2011, 19, 1713.	1.7	33
85	Large-effective-area uncoupled few-mode multi-core fiber. Optics Express, 2012, 20, B77.	1.7	33
86	Design and Fabrication of Broadband PLC-Based Two-Mode Multi/Demultiplexer Using a Wavefront Matching Method. Journal of Lightwave Technology, 2017, 35, 2252-2258.	2.7	32
87	Coupling Characteristics of Multicore Photonic Crystal Fiber-Based 1$,imes,$4 Power Splitters. Journal of Lightwave Technology, 2009, 27, 2062-2068.	2.7	31
88	Design of Few-Mode Fibers for Mode-Division Multiplexing Transmission. IEEE Photonics Journal, 2013, 5, 7201207-7201207.	1.0	31
89	Design and optimization of 32-core rod/trench assisted square-lattice structured single-mode multi-core fiber. Optics Express, 2017, 25, 5119.	1.7	30
90	Design of air-guiding modified honeycomb photonic band-gap fibers for effectively singlemode operation. Optics Express, 2006, 14, 2404.	1.7	29

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91	Three-Dimensional Finite-Element Solutions for Crossing Slot-Waveguides With Finite Core-Height. Journal of Lightwave Technology, 2012, 30, 3394-3400.	2.7	28
92	Stress analysis method for elastically anisotropic material based optical waveguides and its application to strain-induced optical waveguides. Journal of Lightwave Technology, 1999, 17, 255-259.	2.7	27
93	Tunable Photonic Crystal Fiber Couplers With a Thermo-Responsive Liquid Crystal Resonator. Journal of Lightwave Technology, 2008, 26, 663-669.	2.7	27
94	Dynamics of Raman soliton during supercontinuum generation near the zero-dispersion wavelength of optical fibers. Optics Express, 2011, 19, 10443.	1.7	27
95	Low bending loss and effectively single-mode all-solid photonic bandgap fiber with an effective area of 650â€‰â€‰Î¼m^2. Optics Letters, 2012, 37, 1292.	1.7	27
96	Design of Homogeneous Trench-Assisted Multi-Core Fibers Based on Analytical Model. Journal of Lightwave Technology, 2016, 34, 4406-4416.	2.7	27
97	Approximate empirical relations for nonlinear photonic crystal fibers. Optics Express, 2006, 14, 6572.	1.7	26
98	Detailed theoretical investigation of bending properties in solid-core photonic bandgap fibers. Optics Express, 2009, 17, 7615.	1.7	26
99	Large-Mode-Area All-Solid Photonic Bandgap Fibers for the Mitigation of Optical Nonlinearities. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 316-322.	1.9	26
100	Scrambling-Type Three-Mode PLC Multiplexer Based on Cascaded Y-Branch Waveguide With Integrated Mode Rotator. Journal of Lightwave Technology, 2018, 36, 1985-1992.	2.7	26
101	Limitation on Effective Area of Bent Large-Mode-Area Leakage Channel Fibers. Journal of Lightwave Technology, 2011, 29, 2609-2615.	2.7	25
102	Few-mode multi-core fibre with highest core multiplicity factor. , 2015, , .		25
103	Polarization-dependent confinement losses in actual holey fibers. IEEE Photonics Technology Letters, 2003, 15, 691-693.	1.3	24
104	GeSn/SiGeSn Multiple-Quantum-Well Electroabsorption Modulator With Taper Coupler for Mid-Infrared Ge-on-Si Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	1.9	24
105	High Spatial Density 6-Mode 7-Core Fiber Amplifier for L-Band Operation. Journal of Lightwave Technology, 2020, 38, 2938-2943.	2.7	24
106	Synthesis of polarization-independent splitters based on highly birefringent dual-core photonic crystal fiber platforms. IEEE Photonics Technology Letters, 2006, 18, 1231-1233.	1.3	23
107	Three-Dimensional Finite-Element Mode-Solver for Nonlinear Periodic Optical Waveguides and Its Application to Photonic Crystal Waveguides. Journal of Lightwave Technology, 2014, 32, 4011-4019.	2.7	23
108	Reduced lateral leakage losses of TM-like modes in silicon-on-insulator ridge waveguides. Optics Letters, 2008, 33, 2008.	1.7	22

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109	Crosstalk Analysis of Heterogeneous Multicore Fibers Using Coupled-Mode Theory. IEEE Photonics Journal, 2017, 9, 1-8.	1.0	22
110	Si-based Mach-Zehnder wavelength/mode multi/demultiplexer for a WDM/MDM transmission system. Optics Express, 2018, 26, 15211.	1.7	22
111	DMD-Unmanaged Long-Haul SDM Transmission Over 2500-km 12-Core Ã— 3-Mode MC-FMF and 6300-km 3-Mode FMF Employing Intermodal Interference Canceling Technique. Journal of Lightwave Technology, 2019, 37, 138-147.	2.7	22
112	PLC-Based Four-Mode Multi/Demultiplexer With LP11 Mode Rotator on One Chip. Journal of Lightwave Technology, 2015, 33, 1161-1165.	2.7	21
113	Spatial Density and Splicing Characteristic Optimized Few-Mode Multi-Core Fiber. Journal of Lightwave Technology, 2020, 38, 4490-4496.	2.7	21
114	Geometric-phase-induced arbitrary polarization and orbital angular momentum generation in helically twisted birefringent photonic crystal fiber. Photonics Research, 2020, 8, 1278.	3.4	21
115	The impact of elliptical deformations for optimizing the performance of dual-core fluorine-doped photonic crystal fiber couplers. Optics Express, 2006, 14, 1982.	1.7	20
116	Optimal design of 4LP-mode multicore fibers for high spatial multiplicity. Optics Express, 2017, 25, 5697.	1.7	20
117	Multi-Core Fiber Technology for SDM: Coupling Mechanisms and Design. Journal of Lightwave Technology, 2022, 40, 1527-1543.	2.7	20
118	Design Optimization of Large-Mode-Area All-Solid Photonic Bandgap Fibers for High-Power Laser Applications. Journal of Lightwave Technology, 2014, 32, 440-449.	2.7	19
119	Simple evaluation of confinement losses in holey fibers. Optics Communications, 2005, 253, 95-98.	1.0	18
120	Design of S-Band Erbium-Doped Concentric Dual-Core Photonic Crystal Fiber Amplifiers With ASE Suppression. Journal of Lightwave Technology, 2009, 27, 1725-1733.	2.7	18
121	High-count Multi-Core Fibers for Space-Division Multiplexing with Propagation-Direction Interleaving. , 2015, , .		18
122	Group delay spread analysis of strongly coupled 3-core fibers: an effect of bending and twisting. Optics Express, 2016, 24, 9583.	1.7	18
123	Full-Vector Finite-Element Beam Propagation Method for Helicoidal Waveguides and Its Application to Twisted Photonic Crystal Fibers. Journal of Lightwave Technology, 2017, 35, 2894-2901.	2.7	18
124	Approximate scalar finite-element beam-propagation method with perfectly matched layers for anisotropic optical waveguides. Journal of Lightwave Technology, 2001, 19, 786-792.	2.7	17
125	Nonlinear photonic crystal fibres: pushing the zero-dispersion towards the visible. New Journal of Physics, 2006, 8, 207-207.	1.2	17
126	Mode-division Multiplexed Transmission with Fiber Mode Couplers. , 2012, , .		17

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127	Off-axis core transmission characteristics of helically twisted photonic crystal fibers. Optics Letters, 2018, 43, 4935.	1.7	17
128	Bending-insensitive single-mode hole-assisted fibers with reduced splice loss. Optics Letters, 2005, 30, 1779.	1.7	16
129	Apodized photonic crystal waveguide gratings. Optics Express, 2006, 14, 4459.	1.7	16
130	Genetic-Algorithm Assisted Design of C-Band CROW-Miniaturized PCW Interleaver. Journal of Lightwave Technology, 2009, 27, 2678-2687.	2.7	16
131	Slow-Light-Enhanced Nonlinear Characteristics in Slot Waveguides Composed of Photonic Crystal Nanobeam Cavities. IEEE Photonics Journal, 2013, 5, 2700309-2700309.	1.0	16
132	Wavefront Matching Method Based on Full-Vector Finite-Element Beam Propagation Method for Polarization Control Devices. Journal of Lightwave Technology, 2017, 35, 2840-2845.	2.7	16
133	Bayesian direct-binary-search algorithm for the efficient design of mosaic-based power splitters. OSA Continuum, 2021, 4, 1258.	1.8	16
134	Numerical analysis of integrated acoustooptic tunable filters with weighted coupling. Journal of Lightwave Technology, 1999, 17, 249-254.	2.7	15
135	Transverse light guides in microstructured optical fibers. Optics Letters, 2006, 31, 314.	1.7	15
136	Analysis of a realistic and idealized dispersion compensating photonic crystal fiber Raman amplifier. Optical Fiber Technology, 2007, 13, 174-179.	1.4	15
137	Full-vectorial coupled mode theory for the evaluation of macro-bending loss in multimode fibers. application to the hollow-core photonic bandgap fibers. Optics Express, 2008, 16, 14945.	1.7	15
138	Low-loss and broadband PLC-type mode (de)multiplexer for mode-division multiplexing transmission. , 2013, , .		15
139	An Efficient Core Selection Method for Heterogeneous Trench-Assisted Multi-Core Fiber. IEEE Photonics Technology Letters, 2016, 28, 810-813.	1.3	15
140	A Metal-Assisted Silicon Slot Waveguide for Highly Sensitive Gas Detection. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	15
141	Three-color photonic crystal demultiplexer based on ultralow-refractive-index metamaterial technology. Optics Letters, 2005, 30, 2736.	1.7	14
142	Photonic bandgap fibers with resonant structures for tailoring the dispersion. Optics Express, 2009, 17, 11869.	1.7	14
143	Polarizing ytterbium-doped all-solid photonic bandgap fiber with ~1150Âµm^2 effective mode area. Optics Express, 2015, 23, 4307.	1.7	14
144	Development of the Wavefront Matching Method Based on the 3-D Finite-Element Method and Its Application to Si-wire Mode Converters. Journal of Lightwave Technology, 2018, 36, 3652-3659.	2.7	14

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145	The Effect of Core Offset on the Mode Converting Characteristics in Twisted Single Mode Fibers. Journal of Lightwave Technology, 2019, 37, 5479-5485.	2.7	14
146	Iterative Unreplicated Parallel Interference Canceler for MDL-Tolerant Dense SDM (12-Core Ã— 3-Mode) Transmission Over 3000 km. Journal of Lightwave Technology, 2019, 37, 1560-1569.	2.7	14
147	Realization of single-moded broadband air-guiding photonic bandgap fibers. IEEE Photonics Technology Letters, 2006, 18, 1666-1668.	1.3	13
148	Thermooptical sensitivity analysis of highly birefringent polarimetric sensing photonic crystal fibers with elliptically elongated veins. IEEE Photonics Technology Letters, 2006, 18, 1663-1665.	1.3	13
149	Realistic Design of Large-Hollow-Core Photonic Band-Gap Fibers With Suppressed Higher Order Modes and Surface Modes. Journal of Lightwave Technology, 2007, 25, 2440-2447.	2.7	12
150	Demonstration of PLC-based six-mode multiplexer for mode division multiplexing transmission. , 2015, , .		12
151	Material Gain Analysis of GeSn/SiGeSn Quantum Wells for Mid-Infrared Si-Based Light Sources Based on Many-Body Theory. IEEE Journal of Quantum Electronics, 2015, 51, 1-8.	1.0	12
152	Low-Loss and Small 2 Ã— 4Î» Multiplexers Based on 2 Ã— 2 and 2 Ã— 1 Machâ€“Zehnder Interferometers With On-Chip Polarization Multiplexing for 400GbE. Journal of Lightwave Technology, 2021, 39, 193-200.	2.7	12
153	A novel Si four-wavelength multiplexer for 100/400GbE using higher-order mode composed of (a)symmetric directional couplers and TE₁-TM₀ mode converter. Optics Express, 2019, 27, 36286.	1.7	12
154	Raman amplification characteristics of As_2Se_3 photonic crystal fibers. Optics Letters, 2008, 33, 2431.	1.7	11
155	A design method of lithium niobate on insulator ridge waveguides without leakage loss. Optics Express, 2011, 19, 15833.	1.7	11
156	Low-crosstalk multicore fibers for long-haul transmission. , 2012, , .		11
157	Heterogeneous trench-assisted few-mode multi-core fiber with graded-index profile and square-lattice layout for low differential mode delay. Optics Express, 2015, 23, 17783.	1.7	11
158	Numerical Modeling of Cryogenic Temperature Sensors Based on Plasmonic Oscillations in Metallic Nanoparticles Embedded Into Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2007, 19, 324-326.	1.3	10
159	Analysis of Leakage Losses in One-Dimensional Photonic Crystal Coupled Resonator Optical Waveguide Using 3-D Finite Element Method. Journal of Lightwave Technology, 2010, 28, 2977-2983.	2.7	10
160	Asymmetric parallel waveguide with mode conversion for mode and wavelength division multiplexing transmission. , 2012, , .		10
161	High-spatial-multiplicity multi-core fibres for future dense space-division-multiplexing system. , 2015, , .		10
162	Broadband and compact silicon mode converter designed using a wavefront matching method. Optics Express, 2020, 28, 38196.	1.7	10

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163	Transmission-Efficient Structures of Bent and Crossing Silicon Slot Waveguides. IEEE Photonics Journal, 2013, 5, 6601809-6601809.	1.0	9
164	Ultra-Broadband Silicon-Wire Polarization Beam Combiner/Splitter Based on a Wavelength Insensitive Coupler With a Point-Symmetrical Configuration. IEEE Photonics Journal, 2014, 6, 1-8.	1.0	9
165	Group delay spread analysis of coupled-multicore fibers: A comparison between weak and tight bending conditions. Optics Communications, 2017, 393, 232-237.	1.0	9
166	Coiling Size Dependence of Group Delay Spread in Coupled Multicore Fibers Without Intentional Twisting. Journal of Lightwave Technology, 2017, 35, 4559-4566.	2.7	9
167	Thermo-optical sensitivity analysis in photonic crystal circuits based on semiconducting or metallic metamaterial constituents. Optics Letters, 2006, 31, 404.	1.7	8
168	Structural Optimization of Air-Guiding Photonic Bandgap Fibers for Realizing Ultimate Low Loss Waveguides. Journal of Lightwave Technology, 2008, 26, 1602-1612.	2.7	8
169	Generalized Simple Theory for Estimating Lateral Leakage Loss Behavior in Silicon-on-Insulator Ridge Waveguides. Journal of Lightwave Technology, 2009, 27, 5492-5499.	2.7	8
170	Homogeneous and heterogeneous multi-core fibers. , 2012, , .		8
171	A rigorous definition of nonlinear parameter Î³ and effective area A_eff for photonic crystal optical waveguides. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1245.	0.9	8
172	Design and optimization of 3-modeÃ—12-core dual-ring structured few-mode multi-core fiber. Optics Communications, 2016, 381, 30-36.	1.0	8
173	Design of a reflection-suppressed all-optical diode based on asymmetric L-shaped nonlinear photonic crystal cavity. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 54.	0.9	8
174	Design of small mode-dependent-loss scrambling-type mode (de)multiplexer based on PLC. Optics Express, 2020, 28, 9653.	1.7	8
175	Transverse lightwave circuits in microstructured optical fibers: waveguides. Optics Express, 2005, 13, 7506.	1.7	7
176	Fluidic Sensors Based on Photonic Crystal Fiber Gratings: Impact of the Ambient Temperature. IEEE Photonics Technology Letters, 2006, 18, 2206-2208.	1.3	7
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