B M Azizur Rahman

List of Publications by Year
in descending order

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378 papers	5,060 citations	126708 33 h-index	143772 57 g-index
380 all docs	380 docs citations	380 times ranked	2374 citing authors

#	Article	IF	Citations
1	Finite-element solution of integrated optical waveguides. Journal of Lightwave Technology, 1984, 2, 682-688.	2.7	311
2	Finite-Element Analysis of Optical and Microwave Waveguide Problems. IEEE Transactions on Microwave Theory and Techniques, 1984, 32, 20-28.	2.9	246
3	Penalty Function Improvement of Waveguide Solution by Finite Elements. IEEE Transactions on Microwave Theory and Techniques, 1984, 32, 922-928.	2.9	229
4	Miniature Multilevel Optical Memristive Switch Using Phase Change Material. ACS Photonics, 2019, 6, 2205-2212.	3.2	138
5	Machine learning approach for computing optical properties of a photonic crystal fiber. Optics Express, 2019, 27, 36414.	1.7	124
6	New full-vectorial numerically efficient propagation algorithm based on the finite element method. Journal of Lightwave Technology, 2000, 18, 409-415.	2.7	122
7	Mid-infrared supercontinuum generation using dispersion-engineered Ge_115As_24Se_645 chalcogenide channel waveguide. Optics Express, 2015, 23, 6903.	1.7	94
8	Analysis of optical waveguide discontinuities. Journal of Lightwave Technology, 1988, 6, 52-57.	2.7	89
9	Design and Characterization of Low-Loss Porous-Core Photonic Crystal Fiber. IEEE Photonics Journal, 2012, 4, 2315-2325.	1.0	80
10	Full vectorial finite-element-based imaginary distance beam propagation solution of complex modes in optical waveguides. Journal of Lightwave Technology, 2002, 20, 1054-1060.	2.7	77
11	Nonvolatile waveguide transmission tuning with electrically-driven ultra-small GST phase-change material. Science Bulletin, 2019, 64, 782-789.	4.3	75
12	Golden spiral photonic crystal fiber: polarization and dispersion properties. Optics Letters, 2008, 33, 2716.	1.7	70
13	Label-free slot-waveguide biosensor for the detection of DNA hybridization. Applied Optics, 2012, 51, 8195.	0.9	68
14	Design and characterization of compact single-section passive polarization rotator. Journal of Lightwave Technology, 2001, 19, 512-519.	2.7	65
15	Beam propagation modeling of polarization rotation in deeply etched semiconductor bent waveguides. IEEE Photonics Technology Letters, 2001, 13, 681-683.	1.3	64
16	Soft Glass Equiangular Spiral Photonic Crystal Fiber for Supercontinuum Generation. IEEE Photonics Technology Letters, 2009, 21, 1722-1724.	1.3	62
17	Design of optical polarization splitters in a single-section deeply etched MMI waveguide. Applied Physics B: Lasers and Optics, 2001, 73, 613-618.	1.1	59
18	Specialty Fibers for Terahertz Generation and Transmission: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 365-379.	1.9	55

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19	A rigorous comparison of the performance of directional couplers with multimode interference devices. Journal of Lightwave Technology, 1999, 17, 243-248.	2.7	50
20	Sensitivity Enhancement of a Concave Shaped Optical Fiber Refractive Index Sensor Covered with Multiple Au Nanowires. Sensors, 2019, 19, 4210.	2.1	50
21	Accurate analysis of MMI devices with two-dimensional confinement. Journal of Lightwave Technology, 1996, 14, 2078-2084.	2.7	47
22	Characterization of Silver/Polystyrene (PS)-Coated Hollow Glass Waveguides at THz Frequency. Journal of Lightwave Technology, 2007, 25, 2456-2462.	2.7	45
23	Optimization of a horizontal slot waveguide biosensor to detect DNA hybridization. Applied Optics, 2015, 54, 4881.	2.1	45
24	Ultracompact Si-GST Hybrid Waveguides for Nonvolatile Light Wave Manipulation. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	45
25	Machine Learning Regression Approach to the Nanophotonic Waveguide Analyses. Journal of Lightwave Technology, 2019, 37, 6080-6089.	2.7	45
26	Dispersion engineered Ge_115As_24Se_645 nanowire for supercontinuum generation: A parametric study. Optics Express, 2014, 22, 31029.	1.7	44
27	Optimization of microwave properties for ultrahigh-speed etched and unetched lithium niobate electrooptic modulators. Journal of Lightwave Technology, 2002, 20, 1856-1863.	2.7	42
28	Resonance condition of a microfiber knot resonator immersed in liquids. Applied Optics, 2011, 50, 5912.	2.1	40
29	Variable Waist-Diameter Machâ€“Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. IEEE Sensors Journal, 2016, 16, 5987-5992.	2.4	39
30	Design and Performance Study of a Compact SOI Polarization Rotator at 1.55 Î¼m. Journal of Lightwave Technology, 2013, 31, 3687-3693.	2.7	38
31	Bandwidth estimation for ultra-high-speed lithium niobate modulators. Applied Optics, 2003, 42, 2674.	2.1	37
32	Full vectorial finite element modeling of novel polarization rotators. Optical and Quantum Electronics, 2003, 35, 297-312.	1.5	35
33	Optical Fiber, Nanomaterial, and THz-Metasurface-Mediated Nano-Biosensors: A Review. Biosensors, 2022, 12, 42.	2.3	35
34	Thermal-stress-induced birefringence in bow-tie optical fibers. Applied Optics, 1994, 33, 5611.	2.1	34
35	Characterization of single-polarization single-mode photonic crystal fiber using full-vectorial finite element method. Applied Physics B: Lasers and Optics, 2008, 93, 223-230.	1.1	34
36	All-optical non-volatile tuning of an AMZI-coupled ring resonator with GST phase-change material. Optics Letters, 2018, 43, 5539.	1.7	34

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37	Vector finite element solution of saturable nonlinear strip-loaded optical waveguides. IEEE Photonics Technology Letters, 1991, 3, 147-149.	1.3	33
38	Metal Nanowire Assisted Hollow Core Fiber Sensor for an Efficient Detection of Small Refractive Index Change of Measurand Liquid. Plasmonics, 2019, 14, 1823-1830.	1.8	33
39	Accurate finite element modal solution of photonic crystal fibres. IEE Proceedings: Optoelectronics, 2005, 152, 241-246.	0.8	32
40	Vectorâ€“H finite element solution of GaAs/GaAlAs rib waveguides. IEE Proceedings, Part J: Optoelectronics, 1985, 132, 349.	0.4	30
41	Design of on-chip hybrid plasmonic Mach-Zehnder interferometer for temperature and concentration detection of chemical solution. Sensors and Actuators B: Chemical, 2019, 279, 490-502.	4.0	30
42	Room-Temperature Power-Stabilized Narrow-Linewidth Tunable Erbium-Doped Fiber Ring Laser Based on Cascaded Mach-Zehnder Interferometers With Different Free Spectral Range for Strain Sensing. Journal of Lightwave Technology, 2020, 38, 1966-1974.	2.7	30
43	Investigation of a SPR based refractive index sensor using a single mode fiber with a large D shaped microfluidic channel. OSA Continuum, 2019, 2, 3008.	1.8	30
44	Improved design of a polarization converter based on semiconductor optical waveguide bends. Applied Optics, 2001, 40, 5395.	2.1	29
45	Loss/gain characterization of optical waveguides. Journal of Lightwave Technology, 1995, 13, 1760-1765.	2.7	28
46	Design optimization of polymer electrooptic modulators. Journal of Lightwave Technology, 2006, 24, 3506-3513.	2.7	28
47	Effect of titanium dioxide (TiO₂) nanoparticle coating on the detection performance of microfiber knot resonator sensors for relative humidity measurement. Materials Express, 2016, 6, 501-508.	0.2	28
48	Numerical analysis of nonlinear bistable optical waveguides. IEEE Photonics Technology Letters, 1990, 2, 265-267.	1.3	27
49	Polarization crosstalk in high index contrast planar silica waveguides with slanted sidewalls. Journal of Lightwave Technology, 2003, 21, 54-60.	2.7	27
50	Design of universal shift register based on electro-optic effect of LiNbO3 in Machâ€“Zehnder interferometer for high speed communication. Optical and Quantum Electronics, 2015, 47, 3509-3524.	1.5	27
51	All-Normal Dispersion Chalcogenide PCF for Ultraflat Mid-Infrared Supercontinuum Generation. IEEE Photonics Technology Letters, 2017, 29, 1792-1795.	1.3	27
52	Characterization of metal-clad TE/TM mode splitters using the finite element method. Journal of Lightwave Technology, 1997, 15, 2264-2269.	2.7	26
53	Full-vectorial finite-element beam propagation method for nonlinear directional coupler devices. IEEE Journal of Quantum Electronics, 2000, 36, 556-562.	1.0	26
54	Vector beam propagation analysis of polarization conversion in periodically loaded waveguides. IEEE Photonics Technology Letters, 2000, 12, 1346-1348.	1.3	26

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55	Numerical analysis of bent waveguides: bending loss, transmission loss, mode coupling, and polarization coupling. Applied Optics, 2008, 47, 2961.	2.1	26
56	Ultrabroadband mid-infrared supercontinuum generation through dispersion engineering of chalcogenide microstructured fibers. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2343.	0.9	26
57	Finite element analysis for lossy optical waveguides by using perturbation techniques. IEEE Photonics Technology Letters, 1994, 6, 537-539.	1.3	25
58	The effect of fabrication parameters on a ridge Mach-Zehnder interferometric (MZI) modulator. Journal of Lightwave Technology, 2002, 20, 854-861.	2.7	25
59	Optimization of the optical properties of a deeply etched semiconductor electrooptic modulator. Journal of Lightwave Technology, 2003, 21, 1813-1819.	2.7	25
60	Rigorous modal analysis of silicon strip nanoscale waveguides. Optics Express, 2010, 18, 8528.	1.7	25
61	Design of compact optical bends with a trench by use of finite-element and beam-propagation methods. Applied Optics, 2000, 39, 4946.	2.1	24
62	Numerical Analysis of Asymmetric Silicon Nanowire Waveguide as Compact Polarization Rotator. IEEE Photonics Journal, 2011, 3, 381-389.	1.0	24
63	A Highly Sensitive SPR Refractive Index Sensor Based on Microfluidic Channel Assisted With Graphene-Ag Composite Nanowire. IEEE Photonics Journal, 2021, 13, 1-8.	1.0	24
64	Finite-element modeling of one- and two-dimensional MQW semiconductor optical waveguides. IEEE Photonics Technology Letters, 1993, 5, 928-931.	1.3	23
65	Finite element analysis of diffused anisotropic optical waveguides. Journal of Lightwave Technology, 1996, 14, 780-786.	2.7	23
66	Design considerations for an electrooptic directional coupler modulator. Journal of Lightwave Technology, 1999, 17, 598-605.	2.7	23
67	Stacking the Equiangular Spiral. IEEE Photonics Technology Letters, 2013, 25, 291-294.	1.3	23
68	Numerical study of soliton switching in active three-core nonlinear fiber couplers. IEEE Journal of Quantum Electronics, 1997, 33, 874-878.	1.0	22
69	Fabrication tolerance study of a compact passive polarization rotator. Journal of Lightwave Technology, 2002, 20, 751-757.	2.7	22
70	Characterization of Silica Nanowires for Optical Sensing. Journal of Lightwave Technology, 2009, 27, 5537-5542.	2.7	22
71	An Innovative Straight Resonator Incorporating a Vertical Slot as an Efficient Bio-Chemical Sensor. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 132-139.	1.9	22
72	Analysis of the birefringence properties of optical fibers made by a preform deformation technique. Journal of Lightwave Technology, 1995, 13, 142-147.	2.7	21

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73	Ultra low bending loss equiangular spiral photonic crystal fibers in the terahertz regime. AIP Advances, 2012, 2, 022140.	0.6	21
74	Design and Characterization of Porous Core Polarization Maintaining Photonic Crystal Fiber for THz Guidance. Journal of Lightwave Technology, 2016, 34, 5583-5590.	2.7	21
75	High-Sensitivity Polarization-Independent Biochemical Sensor Based on Silicon-on-Insulator Cross-Slot Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 64-71.	1.9	21
76	Design of dispersion-engineered As2Se3 channel waveguide for mid-infrared region supercontinuum generation. Journal of Applied Physics, 2018, 123, .	1.1	21
77	Analysis of a Single Solid Core Flat Fiber Plasmonic Refractive Index Sensor. Plasmonics, 2020, 15, 1429-1437.	1.8	21
78	Numerical modeling of second harmonic generation in optical waveguides using the finite element method. IEEE Journal of Quantum Electronics, 1997, 33, 1727-1733.	1.0	20
79	Accurate Analysis of the Mode (de)multiplexer Using Asymmetric Directional Coupler. Journal of Lightwave Technology, 2016, 34, 2288-2296.	2.7	20
80	Comparison of the phase change process in a GST-loaded silicon waveguide and MMI. Optics Express, 2021, 29, 3503.	1.7	20
81	Spot-size conversion using uniform waveguide sections for efficient laser-fiber coupling. Journal of Lightwave Technology, 2001, 19, 708-716.	2.7	19
82	Characterization of silicon nanowire by use of full-vectorial finite element method. Applied Optics, 2010, 49, 3173.	2.1	19
83	Characterization of Plasmonic Modes in a Low-Loss Dielectric-Coated Hollow Core Rectangular Waveguide at Terahertz Frequency. IEEE Photonics Journal, 2011, 3, 1054-1066.	1.0	19
84	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. Journal of Modern Optics, 2013, 60, 956-962.	0.6	19
85	Design and modeling of dispersion-engineered all-chalcogenide triangular-core fiber for mid-infrared-region supercontinuum generation. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 266.	0.9	19
86	Design of Ultra-Compact Optical Memristive Switches with GST as the Active Material. Micromachines, 2019, 10, 453.	1.4	18
87	Design, optimization, and performance evaluation of GSST clad low-loss non-volatile switches. Applied Optics, 2019, 58, 8687.	0.9	18
88	Design issues of a multimode interference-based 3-dB splitter. Applied Optics, 2002, 41, 7037.	2.1	17
89	Mid-infrared supercontinuum generation using As2Se3 photonic crystal fiber and the impact of higher-order dispersion parameters on its supercontinuum bandwidth. Optical Fiber Technology, 2018, 45, 255-266.	1.4	17
90	Finite Element Analysis of Optical Waveguides. Progress in Electromagnetics Research, 1995, 10, 187-216.	1.6	17

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91	Electro-optic directional coupler switch characterization. Journal of Lightwave Technology, 1997, 15, 377-382.	2.7	16
92	A Compact Machâ€“Zehnder Interferometer Using Composite Plasmonic Waveguide for Ethanol Vapor Sensing. Journal of Lightwave Technology, 2017, 35, 3003-3011.	2.7	16
93	Formaldehyde sensing using ZnO nanorods coated glass integrated with microfiber. Optics and Laser Technology, 2019, 120, 105750.	2.2	16
94	Design of a Compact Low-Loss Phase Shifter Based on Optical Phase Change Material. IEEE Photonics Technology Letters, 2019, 31, 1757-1760.	1.3	16
95	Resonant multilevel optical switching with phase change material GST. Nanophotonics, 2022, 11, 3437-3446.	2.9	16
96	Characterisation of low-loss waveguide bends with offset-optimisation for compact photonic integrated circuits. IEE Proceedings: Optoelectronics, 2000, 147, 382.	0.8	15
97	Optimization of compact lateral, vertical, and combined tapered spot-size converters by use of the beam-propagation method. Applied Optics, 2006, 45, 288.	2.1	15
98	Finite Element Solutions of Surface-Plasmon Modes in Metal-Clad Dielectric Waveguides at THz Frequency. Journal of Lightwave Technology, 2006, 24, 5111-5118.	2.7	15
99	Birefringence study of photonic crystal fibers by using the full-vectorial finite element method. Applied Physics B: Lasers and Optics, 2006, 84, 75-82.	1.1	15
100	Dispersion-engineered silicon nitride waveguides for mid-infrared supercontinuum generation covering the wavelength range 0.8â€“6.5 Î¼m. Laser Physics, 2019, 29, 025301.	0.6	15
101	Feasibility study of a Ge₂Sb₂Te₅-clad silicon waveguide as a non-volatile optical on-off switch. OSA Continuum, 2019, 2, 49.	1.8	15
102	Polarization and dispersion properties of elliptical hole golden spiral photonic crystal fiber. Applied Physics B: Lasers and Optics, 2010, 99, 717-726.	1.1	14
103	Full vectorial finite-element solution of nonlinear bistable optical waveguides. IEEE Journal of Quantum Electronics, 2002, 38, 1120-1125.	1.0	13
104	Finite element modal solutions of planar photonic crystal fibers with rectangular air-holes. Optical and Quantum Electronics, 2005, 37, 171-183.	1.5	13
105	Characterization of surface-plasmon modes in metal-clad optical waveguides. Applied Optics, 2006, 45, 8523.	2.1	13
106	Rigorous characterization of acoustic-optical interactions in silicon slot waveguides by full-vectorial finite element method. Optics Express, 2014, 22, 9528.	1.7	13
107	All-Normal-Dispersion Chalcogenide Waveguides for Ultraflat Supercontinuum Generation in the Mid-Infrared Region. IEEE Journal of Quantum Electronics, 2017, 53, 1-6.	1.0	13
108	Strain Sensor Based on Embedded Fiber Bragg Grating in Thermoplastic Polyurethane Using the 3D Printing Technology for Improved Sensitivity. Photonic Sensors, 2022, 12, 1.	2.5	13

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109	Finite-element analysis of surface-plasmon modes for lossy optical waveguides by the use of perturbation techniques. Applied Optics, 1995, 34, 7695.	2.1	12
110	Accurate characterization of optical filters with two-dimensional confinement. Journal of Lightwave Technology, 1996, 14, 2596-2603.	2.7	12
111	Modeling of dispersion engineered chalcogenide rib waveguide for ultraflat mid-infrared supercontinuum generation in all-normal dispersion regime. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	12
112	Compact and Nonvolatile Mode-Selective Switch With Nano-Heater. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	12
113	Nanowire Embedded Micro-Drilled Dual-Channel Approach to Develop Highly Sensitive Biosensor. IEEE Photonics Technology Letters, 2022, 34, 707-710.	1.3	12
114	Finite-element analysis of second-harmonic generation in AlGaAs waveguides. IEEE Journal of Quantum Electronics, 2000, 36, 282-289.	1.0	11
115	Metal-Coated Defect-Core Photonic Crystal Fiber for THz Propagation. Journal of Lightwave Technology, 2009, 27, 1631-1637.	2.7	11
116	Compact Polarization-Independent MMI-Based 1 <inline-formula> <tex-math notation="LaTeX">$imes$</tex-math> </inline-formula> 2 Power Splitter Using Metal-Cap Silicon-on-Insulator Waveguide. IEEE Photonics Journal, 2016, 8, 1-14.	1.0	11
117	Ultra-broadband mid-infrared supercontinuum generation using chalcogenide rib waveguide. Optical and Quantum Electronics, 2016, 48, 1.	1.5	11
118	Q-switched laser generation using MoWS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml2" display="inline" overflow="scroll" altimg="si2.gif"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-rGO in Erbium-doped fiber laser cavity. Optics Communications, 2018, 426, 1-8.	1.0	11
119	Contra-directional switching enabled by Si-GST grating. Optics Express, 2020, 28, 1574.	1.7	11
120	Polarization crosstalk in high index contrast planar silica waveguides. IEEE Photonics Technology Letters, 2002, 14, 1109-1111.	1.3	10
121	Broadband and low-driving-power LiNbO3electrooptic modulators. Optical and Quantum Electronics, 2004, 36, 1205-1220.	1.5	10
122	Mode degeneration in bent photonic crystal fiber study by using the finite element method. Applied Optics, 2009, 48, G131.	2.1	10
123	Impact of â€œGhostâ€•Mode Interaction in Terahertz Quantum Cascade Lasers. IEEE Photonics Journal, 2011, 3, 926-935.	1.0	10
124	Birefringence analysis of segmented cladding fiber. Applied Optics, 2012, 51, 3104.	0.9	10
125	Plastic fiber design for THz generation through wavelength translation. Optics Letters, 2015, 40, 2107.	1.7	10
126	Compact and fabrication-tolerant polarization splitter based on horizontal triple-slot waveguide. Applied Optics, 2017, 56, 2119.	2.1	10

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127	Evolution of Plasmonic Modes in a Metal Nano-Wire Studied by a Modified Finite Element Method. Journal of Lightwave Technology, 2018, 36, 809-818.	2.7	10
128	A High-Precision Extensometer System for Ground Displacement Measurement Using Fiber Bragg Grating. IEEE Sensors Journal, 2022, 22, 8509-8521.	2.4	10
129	Thermal modelling of vertical-cavity surface-emitting lasers using the finite-element method. IEE Proceedings: Optoelectronics, 1995, 142, 82-86.	0.8	9
130	TM/TE modal solutions for submicron lossy metal-clad optical fibres. IEE Proceedings: Optoelectronics, 1998, 145, 171-177.	0.8	9
131	Numerical Analysis of Second Harmonic Generation in Soft Glass Equiangular Spiral Photonic Crystal Fibers. IEEE Photonics Journal, 2012, 4, 357-368.	1.0	9
132	Design of a Compact Polarization Splitter by Using Identical Coupled Silicon Nanowires. Journal of Lightwave Technology, 2016, 34, 4169-4178.	2.7	9
133	Multi-Poly-Silicon-Layer-Based Spot-Size Converter for Efficient Coupling Between Silicon Waveguide and Standard Single-Mode Fiber. IEEE Photonics Journal, 2016, 8, 1-12.	1.0	9
134	Design of a Polymer-Based Hollow-Core Bandgap Fiber for Low-Loss Terahertz Transmission. IEEE Photonics Technology Letters, 2016, 28, 1703-1706.	1.3	9
135	3D-Printed Tilt Sensor Based on an Embedded Two-Mode Fiber Interferometer. IEEE Sensors Journal, 2021, 21, 7565-7571.	2.4	9
136	Study of low-peak-power highly coherent broadband supercontinuum generation through a dispersion-engineered Si-rich silicon nitride waveguide. Applied Optics, 2020, 59, 5948.	0.9	9
137	High sensitivity micro-fiber Mach-Zehnder interferometric temperature sensors with a high index ring layer. Optics Express, 2019, 27, 34247.	1.7	9
138	Artificial Neural Network Modelling for Optimizing the Optical Parameters of Plasmonic Paired Nanostructures. Nanomaterials, 2022, 12, 170.	1.9	9
139	Finite element analysis of nonsynchronous directional couplers. Fiber and Integrated Optics, 1994, 13, 331-336.	1.7	8
140	FDTD analysis of nonlinear Bragg grating based optical devices. Optical and Quantum Electronics, 2007, 38, 1217-1235.	1.5	8
141	Design of bent photonic crystal fiber supporting a single polarization. Applied Optics, 2011, 50, 6505.	2.1	8
142	Microfibre Machâ€“Zehnder interferometer and its application as a current sensor. IET Optoelectronics, 2012, 6, 298-302.	1.8	8
143	Realization of a polymer nanowire optical transducer by using the nanoimprint technique. Applied Optics, 2014, 53, 7487.	2.1	8
144	Design of compact polarization rotator using simple silicon nanowires. Applied Optics, 2014, 53, 8071.	2.1	8

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145	Broadband Silicon Four-Mode (De)Multiplexer Using Subwavelength Grating-Assisted Triple-Waveguide Couplers. Journal of Lightwave Technology, 2021, 39, 5042-5047.	2.7	8
146	Biaxial 3D-Printed Inclinometer Based on Fiber Bragg Grating Technology. IEEE Sensors Journal, 2021, 21, 18815-18822.	2.4	8
147	Design and analysis of suspended core channel waveguide made using As₂Se₃ glass system for mid-infrared supercontinuum generation. Journal of Optics (United Kingdom), 2021, 23, 015504.	1.0	8
148	Electrical performance of efficient quad-crescent-shaped Si nanowire solar cell. Scientific Reports, 2022, 12, 48.	1.6	8
149	Gain/loss characterisation of optical waveguide and semiconductor laser structures. IEE Proceedings: Optoelectronics, 1998, 145, 93-98.	0.8	7
150	Numerical study of spot-size expanders for an efficient OEIC to SMF coupling. IEEE Photonics Technology Letters, 1998, 10, 1082-1084.	1.3	7
151	Rigorous comparison of parabolically tapered and conventional multimode-interference-based 3-dB power splitters in InGaAsP/InP waveguides. Applied Optics, 2004, 43, 5228.	2.1	7
152	Study of modal properties in gold nanowire with ZnO cladding by using the finite element method. Applied Optics, 2011, 50, E177.	2.1	7
153	Stabilized Large Mode Area in Tapered Photonic Crystal Fiber for Stable Coupling. IEEE Photonics Journal, 2012, 4, 340-349.	1.0	7
154	Multimode Interference 3 dB Splitters in Hollow Core Metallic Waveguides for Low-Loss THz Wave Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8500606-8500606.	1.9	7
155	Error probability performance of a short-reach multicore fiber optical interconnect transmission system. Optics Letters, 2015, 40, 4556.	1.7	7
156	Design of Power-Splitter With Selectable Splitting-Ratio Using Angled and Cascaded MMI-Coupler. IEEE Journal of Quantum Electronics, 2018, 54, 1-9.	1.0	7
157	Accurate mode characterization of graded-index multimode fibers for the application of mode-noise analysis. Applied Optics, 1995, 34, 1540.	2.1	6
158	Finite-element analysis of lossy TEâ€“TM modes in metal-clad optical waveguides. Applied Optics, 1998, 37, 5747.	2.1	6
159	Polarization conversion in passive deep-etched GaAs/AlGaAs waveguides. Journal of Lightwave Technology, 2006, 24, 1425-1432.	2.7	6
160	Characterization of a Teflon PCF for THz frequency applications by using the Finite Element Method. , 2008, , .		6
161	Evolution of Highly Confined Surface Plasmon Modes in Terahertz Quantum Cascade Laser Waveguides. Journal of Lightwave Technology, 2011, 29, 2116-2125.	2.7	6
162	Rectangular Array Multicore Fiber Realizing Low Crosstalk Suitable for Next-Generation Short-Reach Optical Interconnects With Low Misalignment Loss. IEEE Photonics Journal, 2016, 8, 1-14.	1.0	6

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163	Non-volatile optical memory based on a slot nanobeam resonator filled with GST material. , 2018, , .		6
164	Ultra-Wide Spectral Bandwidth and Enhanced Absorption in a Metallic Compound Grating CoveredÂby Graphene Monolayer. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	6
165	All-Opto Plasmonic-Controlled Bulk and Surface Sensitivity Analysis of a Paired Nano-Structured Antenna with a Label-Free Detection Approach. Sensors, 2021, 21, 6166.	2.1	6
166	Enhancement of modal stability through reduced mode coupling in a few-mode fiber for mode division multiplexing. OSA Continuum, 2018, 1, 309.	1.8	6
167	Analysis of open optical and microwave guides of arbitrary transverse permittivity profiles. Radio Science, 1984, 19, 1245-1249.	0.8	5
168	Analysis of polarisation rotation in cascaded optical waveguide bends. IEE Proceedings: Optoelectronics, 2002, 149, 75-80.	0.8	5
169	Velocity matching of a GaAs electro-optic modulator. Applied Optics, 2003, 42, 7179.	2.1	5
170	Rigorous beam propagation analysis of tapered spot-size converters in deep-etched semiconductor waveguides. Journal of Lightwave Technology, 2003, 21, 3392-3398.	2.7	5
171	Performance of multilevel modulation formats in 92 Gb/s systems in the presence of PMD and nonlinear effects. , 2014, , .		5
172	Investigation of the Optical Modal Properties of Al+3Doped ZnO-Coated Au Waveguide for Gas Sensing Applications Using the Finite Element Method. IEEE Sensors Journal, 2016, 16, 1176-1181.	2.4	5
173	Design and Optimization of an Al Doped ZnO in Si-Slot for Gas Sensing. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	5
174	Design of compact mode splitters using identical coupled waveguides with slots. OSA Continuum, 2019, 2, 848.	1.8	5
175	ELIMINATION OF NUMERICAL DISPERSION FROM ELECTROMAGNETIC TIME DOMAIN ANALYSIS BY USING RESOURCE EFFICIENT FINITE ELEMENT TECHNIQUE. Progress in Electromagnetics Research, 2013, 137, 487-512.	1.6	5
176	Compact Passive Polarization Converter using Slanted Semiconductor Rib Waveguides. , 2000, , .		5
177	Study of Highly Coherent Mid-Infrared Supercontinuum Generation in CMOS Compatible Si-Rich SiN Tapered Waveguide. Journal of Lightwave Technology, 2022, 40, 4300-4310.	2.7	5
178	Accurate three-dimensional modal solutions for optical resonators with periodic layered structure by using the finite element method. Journal of Lightwave Technology, 1998, 16, 156-161.	2.7	4
179	Novel Polarization-Maintaining Semiconductor Waveguide. IEEE Photonics Technology Letters, 2004, 16, 807-809.	1.3	4
180	Birefringence compensation of silica waveguides. IEEE Photonics Technology Letters, 2005, 17, 1205-1207.	1.3	4

#	Article	IF	Citations
181	Single mode operation of photonic crystal fiber using a full vectorial finite element method. , 2007, , .		4
182	A Higher Order Lateral Mode Suppression Scheme for Terahertz Quantum Cascade Laser Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8501106-8501106.	1.9	4
183	Rigorous analysis of the transverse acoustic modes in optical waveguides by exploiting their structural symmetry. Applied Optics, 2014, 53, 6797.	0.9	4
184	Analysis of Novel Chirped Types of Refractive Index Profile Metamaterial Planar Slab Optical Waveguide by Finite-Element Method for Sensor Application. IEEE Sensors Journal, 2015, 15, 4141-4147.	2.4	4
185	Evolution of Surface Acoustic Waves in an Optical Microfiber. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.0	4
186	Efficient strategy to increase higher order inter-modal stability of a step index multimode fiber. Optics Express, 2017, 25, 29714.	1.7	4
187	Design and Characterization Low-Loss Modes in Dielectric-Coated Hollow-Core Waveguides at THz Frequency. Journal of Lightwave Technology, 2018, 36, 2716-2722.	2.7	4
188	Silicon microring resonators tuned with GST phase change material. , 2018, , .		4
189	Low-loss ARROW waveguide with rectangular hollow core and rectangular low-density polyethylene/air reflectors for terahertz waves. Journal of Nonlinear Optical Physics and Materials, 2018, 27, 1850029.	1.1	4
190	Ultra-Compact Multi-Level Optical Switching with Non-Volatile GST Phase Change. , 2019, , .		4
191	Accurate numerical analysis of multimode-interference-based 3-dB couplers. Applied Optics, 1998, 37, 5672.	2.1	3
192	FIBERS FOR OPTICAL SCANNING MICROSCOPES. Nondestructive Testing and Evaluation, 1998, 14, 105-114.	1.1	3
193	Full vectorial finite element modal solution of curved optical waveguides. Laser Physics Letters, 2005, 2, 131-136.	0.6	3
194	Numerical modeling of polarization conversion in semiconductor electro-optic modulators. Applied Optics, 2005, 44, 1032.	2.1	3
195	Design optimization of high-speed optical modulators. , 2006, , .		3
196	Full-vectorial Solutions of Photonic Crystal Fibers by using the Finite Element Method. , 2007, , .		3
197	RIGOROUS NUMERICAL ANALYSIS AND CHARACTERIZATION OF A SILICON VERTICAL-SLOT NANO-WAVEGUIDE. Journal of Nonlinear Optical Physics and Materials, 2012, 21, 1250007.	1.1	3
198	Low-loss multimode interference couplers for terahertz waves. Proceedings of SPIE, 2012, , .	0.8	3

#	Article	IF	Citations
199	Rigorous Full-Vectorial Beam Propagation Analysis of Second-Harmonic Generation in Zinc Oxide Waveguides. IEEE Photonics Journal, 2013, 5, 6100112-6100112.	1.0	3
200	Full-Vectorial Finite-Element Analysis of Acoustic Modes in Silica Waveguides. IEEE Journal of Quantum Electronics, 2014, 50, 1006-1013.	1.0	3
201	PROPAGATION AND CHARACTERIZATION OF NOVEL GRADED AND LINEARLY CHIRPED TYPE'S OF REFRACTIVE INDEX PROFILE SYMMETRIC PLANAR SLAB WAVEGUIDE BY NUMERICAL MEANS. Progress in Electromagnetics Research B, 2015, 62, 255-275.	0.7	3
202	Numerical Investigation of Mid-Infrared Supercontinuum Generation in GeAsSe Based Chalcogenide Photonic Crystal Fiber Using Low Peak Power. Applied Physics Research, 2016, 8, 29.	0.2	3
203	Modeling of single mode optical fiber having a complicated refractive index profile by using modified scalar finite element method. Optical and Quantum Electronics, 2016, 48, 1.	1.5	3
204	Evolution of Surface Plasmon Supermodes in Metal-Clad Microwire and Its Potential for Biosensing. Journal of Lightwave Technology, 2017, 35, 4684-4691.	2.7	3
205	Demonstration of Polarization-Independent Surface Plasmon Resonance Polymer Waveguide for Refractive Index Sensing. Journal of Lightwave Technology, 2017, 35, 3012-3019.	2.7	3
206	Growth of 1D TiO2 nanostructures on Ti substrates incorporated with residual stress through humid oxidation and their characterizations. Nanotechnology, 2021, 32, 475607.	1.3	3
207	Miniature Silicon Nanobeam Resonator Tuned by GST Phase Change Material. , 2018, , .		3
208	Accurate analysis of multimode interference devices. IEEE Photonics Technology Letters, 1996, 8, 809-811.	1.3	2
209	Full vectorial finite-element analysis of sharp optical waveguide corners. IEEE Photonics Technology Letters, 2002, 14, 1527-1529.	1.3	2
210	Review of finite-element characterization of photonic devices. Journal of Modern Optics, 2003, 50, 1835-1848.	0.6	2
211	Design issues for high-speed electro-optic modulators. , 2003, , .		2
212	Design optimization of high-speed optical modulators. , 2006, , .		2
213	Analysis of polarization conversion in AlGaAs/GaAs electrooptic polarization converter. Optics Communications, 2006, 262, 47-56.	1.0	2
214	Modelling and characterisation of surface plasmon based sensors for the detection ofE. coli. Journal of Modern Optics, 2009, 56, 564-571.	0.6	2
215	Ultra Low Bending Loss Spiral Photonic Crystal Fibers in Terahertz Regime. , 2011, , .		2
216	Optimizing the power confinement in silicon slot waveguides by use of finite element method. , 2011, , .		2

#	Article	IF	Citations
217	Augmenting data rate performance for higher order modulation in triangular index profile multicore fiber interconnect. Optics Communications, 2016, 371, 40-46.	1.0	2
218	Rigorous analysis of numerical methods: a comparative study. Optical and Quantum Electronics, 2016, 48, 1.	1.5	2
219	Generation of an ultrabroadband supercontinuum in the mid-infrared region using dispersion-engineered GeAsSe photonic crystal fiber. Optical and Quantum Electronics, 2018, 50, 1.	1.5	2
220	Compact Photonic SOI Sensors. , 2019, , 343-383.		2
221	Finite Element Method for Sensing Applications. , 2019, , 109-151.		2
222	Enhanced forward stimulated Brillouin scattering in silicon photonic slot waveguide Bragg grating. Journal Physics D: Applied Physics, 2019, 52, 184001.	1.3	2
223	Non-volatile silicon photonic devices enabled by phase change material. , 2019, , .		2
224	Pulse Dynamics of an All-Normal-Dispersion Ring Fiber Laser Under Four Different Pulse Regimes. IEEE Access, 2020, 8, 115263-115272.	2.6	2
225	Modeling of dispersion-engineered all-chalcogenide step-index fiber for wideband supercontinuum generation in the mid-infrared. Optical and Quantum Electronics, 2020, 52, 1.	1.5	2
226	Deep Learning Approach for Predicting Optical Properties of Chalcogenide Planar Waveguide. , 2021, , .		2
227	Power Coupling Efficiency for Electro-Optic Directional Coupler Switch. , 1995, , 213-219.		2
228	Finite Element Solution of Nonlinear Optical Waveguides. , 1995, , 455-461.		2
229	Framework for Time Relevant Water Monitoring System. , 2015, , 3-19.		2
230	Soft Glass Spiral PCF with Flat Anomalous Dispersion at 1064nm and Î³>2000 Wâ^'1kmâ^'1 at 1550nm. , 2009, , .		2
231	All-optical synapses based on silicon microring resonators actuated by the phase change material Ge2Sb2Te5. , 2019, , .		2
232	Temperature-independent vibration sensor based on Fabryâ€“Perot interferometer using a fiber Bragg grating approach. Optical Engineering, 2022, 61, .	0.5	2
233	The analysis of Bragg-reflector pairs using transfer matrix, overlap and least-squares boundary residual methods. Measurement Science and Technology, 1997, 8, 1059-1064.	1.4	1
234	Rigorous study of leaky modes in optical waveguides. , 1999, , .		1

#	Article	IF	Citations
235	<title>Design of strong Bragg gratings in semiconductors</title>. , 2001, , .		1
236	<title>Spot-size converters for efficient laser-to-fiber coupling</title>. , 2001, , .		1
237	A novel and compact optical polarizer incorporating a layered waveguide core structure. Journal of Lightwave Technology, 2003, 21, 3463-3470.	2.7	1
238	Mode beating in tapered high-power lasers. , 2004, , .		1
239	Surface plasmon modes for metal-clad terahertz waveguides. , 2006, 6373, 128.		1
240	Characterizations of photonic crystal fibers by using a full-vectorial finite element method. , 2006, 6369, 9.		1
241	Characterization of single-mode and single-polarization photonic crystal fibers by using a full-vectorial finite element approach. , 2007, 6767, 64.		1
242	Single mode and single polarization operation of photonic crystal fibres. , 2007, , .		1
243	Low-loss terahertz waveguides exploiting surface-plasmon modes. , 2007, , .		1
244	Bending loss, transition loss, mode coupling, and polarization coupling in bent waveguides. , 2008, , .		1
245	Rigorous characterization of surface plasmon modes by using the finite element method. Proceedings of SPIE, 2011, , .	0.8	1
246	Rigorous Full-Vectorial Solutions of Photonics Nanowires. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 952-959.	1.9	1
247	Equiangular Spiral Tellurite Photonic Crystal Fiber for Supercontinuum Generation in Mid-Infrared. , 2011, , .		1
248	Design of a compact SOI polarization rotator for mid-IR application. , 2012, , .		1
249	Light guidance in low-index slot-waveguides. , 2012, , .		1
250	PMD tolerance of 107 Gb/s PM-QPSK system at optimum transmitting power. , 2014, , .		1
251	Characterization of low-loss waveguides and devices for terahertz radiation. Optical Engineering, 2014, 53, 031210.	0.5	1
252	SPEEDING BEYOND FDTD, PERFORATED FINITE ELEMENT TIME DOMAIN METHOD FOR 3D ELECTROMAGNETICS. Progress in Electromagnetics Research B, 2015, 64, 171-193.	0.7	1

#	Article	IF	Citations
253	Design Concepts of a Novel Mode Splitter. , 2015, , .		1
254	Characterization of acousto-optical interaction in planar silica optical waveguide by the finite element method. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 810.	0.9	1
255	Surface plasmon resonance-enhanced light interaction in an integrated ormocomp nanowire. Optical and Quantum Electronics, 2016, 48, 1.	1.5	1
256	Improved design for SOI based evanescently coupled multilayer spot-size converter. Optical and Quantum Electronics, 2017, 49, 1.	1.5	1
257	Non-volatile Optical Switch Based on a GST-Loaded Directional Coupler. , 2018, , .		1
258	All-Optical Non-volatile Tuning of Nanobeam Resonators Using the GST Phase-Change Material. , 2019, , .		1
259	Calibration of Fiber Grating Heavy Metal Ion Sensor Using Artificial Neural Network. , 2021, , .		1
260	Design and characterization of spot-size expanders for improved laser-fiber coupling. , 1999, , .		1
261	Realization of MOEMS Based Temperature Sensor Using Externally Modulated LINBO₃ Mach Zehnder Interferometer. Sensor Letters, 2015, 13, 756-763.	0.4	1
262	Elimination of spurious modes in full-vectorial finite element method based acoustic modal solution. Optics Express, 2019, 27, 10900.	1.7	1
263	Sensitivity analysis of a label-free detection using Opto-plasmonic nano-structured antenna. , 2021, , .		1
264	Wideband Mid-Infrared Supercontinuum Generation Using Inverse Tapered Silicon Nitride Waveguide. , 2021, , .		1
265	Accurate characterization of multimode interference-based devices. , 1996, , .		0
266	Accurate characterization of directional-coupler-based devices. , 1996, , .		0
267	The limitations for suppressing modal noise induced in a graded-index multimode fibre in a white light interferometer. Optics Communications, 1997, 133, 347-354.	1.0	0
268	Spot-size transformations for laser-fiber integration. , 1998, 3278, 196.		0
269	Rigorous characterization of MMI-based photonic devices. , 1998, , .		0
270	Accurate modeling of second harmonic generation in optical waveguides. , 1998, , .		0

#	Article	IF	Citations
271	Mathematical techniques in fiber optic sensor applications. , 1999, , 131-158.		0
272	Numerical modeling and design of compact Ti:LiNbO 3 Mach-Zehnder interferometric modulator using etched waveguides. , 2001, , .		0
273	<title>Design of compact LiNbO<formula><inf><roman>3</roman></inf></formula> electro-optic modulators</title>. , 2001, 4532, 4.		0
274	Accurate modeling of second-order nonlinear effect in optical waveguides using the finite element method. , 2001, , .		0
275	Modeling and characterization of guided wave optical sensor devices. , 2001, 4277, 210.		0
276	Design considerations for MMI-based WDM devices using straight AWG with variable width difference. , 2001, , .		0
277	Optimization of losses in optical bends using the finite element-based beam propagation method. , 2001, 4417, 274.		0
278	Rigorous modal solutions of tapered spot-size converters with diluted secondary core. Optical and Quantum Electronics, 2003, 35, 773-781.	1.5	0
279	Designs of compact monolithically integrated semiconductor spot-size converters for efficient laser-fiber coupling. , 2003, , .		0
280	Rigorous full vectorial finite element analysis of sharp optical waveguide corners. , 2003, , .		0
281	Polarization issues in optoelectronic systems. , 2003, , .		0
282	Design of compact monolithically integrated semiconductor spot-size converters for efficient laser-fiber coupling. , 2003, , .		0
283	Polarization issues in optoelectronic devices and systems. , 2003, , .		0
284	Designs of tapered, uniform and compact monolithically integrated semiconductor spot-size converters for efficient laser-fiber coupling. , 2003, , .		0
285	Accurate modeling of polarization conversion in single or multiple curved waveguide sections. , 2003, , .		0
286	Design issues for an ultra compact tapered MMI coupler based on 3 dB splitter. , 2003, , .		0
287	Effect of device parameters on the bandwidth calculations of ultrahigh-speed optical modulators. , 2003, , .		0
288	Design issues for optical microring filters on deeply etched GaInAsP-InP waveguides. , 2003, , .		0

#	Article	IF	Citations
289	Polarization maintaining semiconductor waveguides. , 2004, , IFC5.		0
290	Characterization of monolithically integrated spot-size converters for efficient laser-fiber coupling. , 2004, , .		0
291	Rigorous analysis of photonic crystal fibers by using a full-vectorial H-field-based finite element method. , 2004, 5595, 54.		0
292	Mode beating in tapered high-power lasers. , 2004, , .		0
293	Design issues for directional coupler- and MMI-based optical microring resonator filters on InP. , 2004, , .		0
294	Modal birefringence of polarization maintaining photonic crystal fibers by using a H-field based finite element method. , 2005, , .		0
295	Mode beating in tapered high-power deeply etched semiconductor amplifiers. , 2005, 5649, 207.		0
296	Rigorous numerical analysis of mode beating in tapered semiconductor amplifiers. Journal of Lightwave Technology, 2005, 23, 2124-2130.	2.7	0
297	Design of the semiconductor polarisation controller based on the electrooptic effect. , 2006, , .		0
298	Modal solutions of photonic crystal fibers by using a full-vectorial finite element method. , 2006, 6128, 114.		0
299	Full-vectorial modal solutions of photonic crystal fibers operating at terahertz frequencies. , 2007, , .		0
300	Characterization of photonic crystal fibers for terahertz frequencies. Proceedings of SPIE, 2007, , .	0.8	0
301	Rod shape optimization in photonic crystal bends by the finite element method. Proceedings of SPIE, 2008, , .	0.8	0
302	Defect-Core PCF with Metal Coated Central Air-hole For THz Propagation. , 2009, , .		0
303	Finite element characterisation of terahertz quantum cascade laser waveguides. Proceedings of SPIE, 2009, , .	0.8	0
304	Octave spanning supercontinuum in soft glass equiangular spiral photonic crystal fiber. Proceedings of SPIE, 2010, , .	0.8	0
305	Rigorous characterization of surface plasmon modes by using the finite element method. Proceedings of SPIE, 2010, , .	0.8	0
306	Single mode and single polarization operation in photonic crystal fibers. , 2010, , .		0

#	Article	IF	Citations
307	Rigorous characterization of silicon nanowire for compact nanophotonic devices. Proceedings of SPIE, 2010, , .	0.8	0
308	Finite element characterisation of photonic crystal fibers. , 2011, , .		0
309	Higher order lateral mode suppression schemes for edge emitting terahertz quantum cascade laser waveguides. , 2011, , .		0
310	Ghost modes in Terahertz Quantum Cascade Laser waveguides. , 2011, , .		0
311	Rigorous characterization of silicon nanowires and nanophotonic devices. Proceedings of SPIE, 2011, , .	0.8	0
312	Characterization of silicon nanophotonic devices using the finite element method. Optical and Quantum Electronics, 2011, 42, 499-509.	1.5	0
313	Rigorous characterization of silicon nanowires and slot waveguides. , 2011, , .		0
314	Design optimization of low-loss waveguides for THz guidance. , 2012, , .		0
315	Residual Dispersion Compensation with a Spiral PCF. , 2012, , .		0
316	Rigorous modal analysis of THz quantum cascade lasers. Proceedings of SPIE, 2012, , .	0.8	0
317	Design Optimization of Low-loss Waveguides and Devices for THz Systems. , 2012, , .		0
318	Light guidance through void: silicon slot waveguides and their rigorous characterization. Proceedings of SPIE, 2012, , .	0.8	0
319	Finite element solutions of nanophotonics devices. , 2012, , .		0
320	Low-loss waveguides and devices for compact THz systems. , 2013, , .		0
321	Low-loss waveguides for THz guidance and devices. Proceedings of SPIE, 2013, , .	0.8	0
322	Design of low-loss waveguides and devices for the emerging THz technologies. , 2013, , .		0
323	Silicon slot waveguides and their rigorous characterization. Proceedings of SPIE, 2013, , .	0.8	0
324	Performance of different modulation formats in 40 Gb/s optical systems in the presence of polarization mode dispersion and nonlinear effects. , 2014, , .		0

#	Article	IF	Citations
325	Efficient Terahertz Generation in a Novel Microstructured-Core Double Clad Plastic Fiber. , 2014, , .		0
326	Study of the optical properties of a micro pillar array solar cell for different configurations. , 2014, , .		0
327	Rigorous characterization of nano-photonic devices. , 2014, , .		0
328	Characterization of graphene-based devices for THz systems. , 2014, , .		0
329	Emergence of THz technologies and design and optimisation low-loss waveguides and devices. , 2014, , .		0
330	A simple analytical model to study of six wave fiber optical parametric amplifier characteristics. Optik, 2015, 126, 5280-5286.	1.4	0
331	Novel spot-size converters for Silicon photonics. , 2015, , .		0
332	Interactions of acoustic and optical waves in Ge-doped silica planar optical waveguide. , 2015, , .		0
333	Solutions of low-index and high-index contrast optical waveguide by using full-vectorial FEM. , 2015, , .		0
334	Rigorous analysis of acoustic modes in low and high index contrast silica fibers. Applied Optics, 2015, 54, 2550.	0.9	0
335	A broadband mid-infrared supercontinuum generation using Ge11.5As24Se64.5 channel waveguide. , 2015, , .		0
336	Rigorous characterization of photonic devices by finite element method. Proceedings of SPIE, 2015, , .	0.8	0
337	Energy efficiency of ironâ€“boronâ€“silicon metallic glasses in sulfuric acid solutions. Materials Research Express, 2017, 4, 035201.	0.8	0
338	Finite Element Time Domain Method for Photonics. Springer Series in Optical Sciences, 2017, , 1-37.	0.5	0
339	Electro-optical switch using Ge<inf>2</inf>Sb<inf>2</inf>Te<inf>5</inf> phase-change material in a silicon MZI structure. , 2017, , .		0
340	Cross-slot waveguide and compact straight slotted resonator based bio-chemical sensors. , 2017, , .		0
341	Design And Optimization of Emerging Photonic Sensors. , 2018, , .		0
342	Phase-matched multi-layer based polarisation-independent spot-size converter for silicon nanowire. Scientific Reports, 2019, 9, 12362.	1.6	0

#	Article	IF	Citations
343	Optical Bio-sensing with an Asymmetric Hybrid Plasmonic Mach-Zehnder Interferometer. Journal of Physics: Conference Series, 2019, 1151, 012012.	0.3	0
344	Mid-infrared wideband supercontinuum generation spanning up to 14 Âµm using dispersion-tailored all-chalcogenide step-index fiber. , 2019, , .		0
345	Air-holes induced multimodal fiber design to increase the effective index difference between higher order guided modes. Optical Fiber Technology, 2019, 53, 102023.	1.4	0
346	Parallel structured fiber in-line multiple Fabry-Perot cavities for high temperature sensing. Sensors and Actuators A: Physical, 2020, 313, 112214.	2.0	0
347	Compact Polarization Rotators Using Bent Optical Waveguides. , 2001, , .		0
348	Compact MMI-MZI-based optical polarizer. , 2001, , .		0
349	Full Vectorial Finite Element Solution of Complex and Nonlinear Modes in Optical Waveguides. , 2002, , .		0
350	Design and Optimization of Photonic Devices by use of the Finite Element Method. , 2002, , .		0
351	Accurate Finite Element Calculation of Full Vectorial Modes in Curved Optical Waveguides. , 2003, , .		0
352	Novel semiconductor waveguides supporting only a single polarization. , 2003, , .		0
353	Phase matching of GaAs electrooptic modulators by using a highly dispersive tantalium pentoxide overlayer. , 2003, , .		0
354	Single-mode Operation of Rib Waveguides. , 2005, , .		0
355	Birefringence Compensation for Planar Silica Optoelectronic Devices by using a Layered Waveguide Core. , 2005, , .		0
356	Modal Solutions For Square And Circular Rod Photonic Crystals By The Finite Element Method. , 2007, , .		0
357	Characterization of the Single mode operation of PCF using Finite Element Method. , 2007, , .		0
358	A Quasi-Crystal Spiral Photonic Crystal Fiber: Modal Solutions And Dispersion Properties. , 2008, , .		0
359	A Finite Element Approach to Maxwellâ€™s Equations in Two Dimension. , 2010, , .		0
360	Low-loss Dielectric-coated Hollow Rectangular Plasmonic Waveguide supporting THz guidance. , 2011, , .		0

#	Article	IF	Citations
361	Optimizing the power confinement in silicon slot waveguides by use of Finite Element Method. , 2011, , .		0
362	An Efficient Polarization Converter for Mid-IR Wavelength. , 2013, , .		0
363	Low-loss THz Waveguides and Devices. , 2014, , .		0
364	ACCURATE FINITE ELEMENT ANALYSIS OF POLARIZATION-MAINTAINING OPTICAL FIBERS. , 1992, , .		0
365	Characterization of optical filters with two-dimensional confinement. , 1996, , .		0
366	Transmission, reflection, alignment tolerance, and far-field profiles of spot-size converters. , 1999, , .		0
367	Interactions of Acoustic and Optical Waves in Ge-doped Silica Planar Optical Waveguide. , 2015, , .		0
368	Light-sound interactions in Tellurite Microstructured Fiber. , 2015, , .		0
369	Design of compact polarization splitter using silicon nanowires. , 2015, , .		0
370	Multilayer spot-size converter in SOI for coupling between nanowire and fiber. , 2017, , .		0
371	Design, Characterization and Optimization of Silicon Photonic Waveguides and Devices. , 2018, , .		0
372	Enhancing mode stability of higher order modes in a multimode fiber. , 2018, , .		0
373	Design of ultra-compact composite plasmonic Mach-Zehnder interferometer for chemical vapor sensing. , 2018, , .		0
374	Frequency-interleaved SDM transmission over multicore fiber for next-generation short-reach optical interconnect systems. , 2018, , .		0
375	Design and optimization of compact spot-size converters for silicon photonic devices. , 2019, , .		0
376	Broadband Supercontinuum Generation using Ge11.5As24Se64 Strip/Slot Hybrid Waveguide with Four Zero Group Delay Dispersion Wavelengths. , 2021, , .		0
377	Mid-Infrared Supercontinuum Generation using Dispersion-Varying Silicon-Rich Silicon Nitride Waveguide. , 2021, , .		0
378	Micro-Tapered Fiber Few-Mode Interferometers Incorporated by Molecule Self-Assembly Fiber Grating for Temperature Sensing Applications. Photonics, 2022, 9, 96.	0.9	0