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	Artificial Neural Network Modelling for Optimizing the Optical Parameters of Plasmonic Paired Nanostructures. Nanomaterials, 2022, 12, 170.	1.9	9
2	Optical Fiber, Nanomaterial, and THz-Metasurface-Mediated Nano-Biosensors: A Review. Biosensors, 2022, 12, 42.	2.3	35
3	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
4	Electrical performance of efficient quad-crescent-shaped Si nanowire solar cell. Scientific Reports, 2022, 12, 48.	1.6	8
5	Micro-Tapered Fiber Few-Mode Interferometers Incorporated by Molecule Self-Assembly Fiber Grating for Temperature Sensing Applications. Photonics, 2022, 9, 96.	0.9	0
6	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
7	A High-Precision Extensometer System for Ground Displacement Measurement Using Fiber Bragg Grating. IEEE Sensors Journal, 2022, 22, 8509-8521.	2.4	10
8	Temperature-independent vibration sensor based on Fabryâ€“Perot interferometer using a fiber Bragg grating approach. Optical Engineering, 2022, 61, .	0.5	2
9	Resonant multilevel optical switching with phase change material GST. Nanophotonics, 2022, 11, 3437-3446.	2.9	16
10	Nanowire Embedded Micro-Drilled Dual-Channel Approach to Develop Highly Sensitive Biosensor. IEEE Photonics Technology Letters, 2022, 34, 707-710.	1.3	12
11	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
12	Calibration of Fiber Grating Heavy Metal Ion Sensor Using Artificial Neural Network. , 2021, , .		1
13	Comparison of the phase change process in a GST-loaded silicon waveguide and MMI. Optics Express, 2021, 29, 3503.	1.7	20
14	3D-Printed Tilt Sensor Based on an Embedded Two-Mode Fiber Interferometer. IEEE Sensors Journal, 2021, 21, 7565-7571.	2.4	9
15	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
16	Deep Learning Approach for Predicting Optical Properties of Chalcogenide Planar Waveguide. , 2021, , .		2
17	Broadband Silicon Four-Mode (De)Multiplexer Using Subwavelength Grating-Assisted Triple-Waveguide Couplers. Journal of Lightwave Technology, 2021, 39, 5042-5047.	2.7	8
18	Biaxial 3D-Printed Inclinometer Based on Fiber Bragg Grating Technology. IEEE Sensors Journal, 2021, 21, 18815-18822.	2.4	8

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19	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
20	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
21	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
22	Broadband Supercontinuum Generation using Ge11.5As24Se64 Strip/Slot Hybrid Waveguide with Four Zero Group Delay Dispersion Wavelengths. , 2021, , .		0
23	Mid-Infrared Supercontinuum Generation using Dispersion-Varying Silicon-Rich Silicon Nitride Waveguide. , 2021, , .		0
24	Sensitivity analysis of a label-free detection using Opto-plasmonic nano-structured antenna. , 2021, , .		1
25	Wideband Mid-Infrared Supercontinuum Generation Using Inverse Tapered Silicon Nitride Waveguide. , 2021, , .		1
26	Compact and Nonvolatile Mode-Selective Switch With Nano-Heater. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	12
27	Pulse Dynamics of an All-Normal-Dispersion Ring Fiber Laser Under Four Different Pulse Regimes. IEEE Access, 2020, 8, 115263-115272.	2.6	2
28	Parallel structured fiber in-line multiple Fabry-Perot cavities for high temperature sensing. Sensors and Actuators A: Physical, 2020, 313, 112214.	2.0	0
29	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
30	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
31	Analysis of a Single Solid Core Flat Fiber Plasmonic Refractive Index Sensor. Plasmonics, 2020, 15, 1429-1437.	1.8	21
32	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
33	Contra-directional switching enabled by Si-GST grating. Optics Express, 2020, 28, 1574.	1.7	11
34	Compact Photonic SOI Sensors. , 2019, , 343-383.		2
35	Finite Element Method for Sensing Applications. , 2019, , 109-151.		2
36	Miniature Multilevel Optical Memristive Switch Using Phase Change Material. ACS Photonics, 2019, 6, 2205-2212.	3.2	138

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37	Design of Ultra-Compact Optical Memristive Switches with GST as the Active Material. Micromachines, 2019, 10, 453.	1.4	18
38	Machine Learning Regression Approach to the Nanophotonic Waveguide Analyses. Journal of Lightwave Technology, 2019, 37, 6080-6089.	2.7	45
39	All-Optical Non-volatile Tuning of Nanobeam Resonators Using the GST Phase-Change Material. , 2019, , .		1
40	Phase-matched multi-layer based polarisation-independent spot-size converter for silicon nanowire. Scientific Reports, 2019, 9, 12362.	1.6	0
41	Ultra-Compact Multi-Level Optical Switching with Non-Volatile GST Phase Change. , 2019, , .		4
42	Sensitivity Enhancement of a Concave Shaped Optical Fiber Refractive Index Sensor Covered with Multiple Au Nanowires. Sensors, 2019, 19, 4210.	2.1	50
43	Formaldehyde sensing using ZnO nanorods coated glass integrated with microfiber. Optics and Laser Technology, 2019, 120, 105750.	2.2	16
44	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
45	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
46	Nonvolatile waveguide transmission tuning with electrically-driven ultra-small GST phase-change material. Science Bulletin, 2019, 64, 782-789.	4.3	75
47	Optical Bio-sensing with an Asymmetric Hybrid Plasmonic Mach-Zehnder Interferometer. Journal of Physics: Conference Series, 2019, 1151, 012012.	0.3	0
48	Enhanced forward stimulated Brillouin scattering in silicon photonic slot waveguide Bragg grating. Journal Physics D: Applied Physics, 2019, 52, 184001.	1.3	2
49	Non-volatile silicon photonic devices enabled by phase change material. , 2019, , .		2
50	Mid-infrared wideband supercontinuum generation spanning up to 14 Âµm using dispersion-tailored all-chalcogenide step-index fiber. , 2019, , .		0
51	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
52	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
53	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
54	Design, optimization, and performance evaluation of GSST clad low-loss non-volatile switches. Applied Optics, 2019, 58, 8687.	0.9	18

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55	High sensitivity micro-fiber Mach-Zehnder interferometric temperature sensors with a high index ring layer. Optics Express, 2019, 27, 34247.	1.7	9
56	Machine learning approach for computing optical properties of a photonic crystal fiber. Optics Express, 2019, 27, 36414.	1.7	124
57	Feasibility study of a Ge₂Sb₂Te₅-clad silicon waveguide as a non-volatile optical on-off switch. OSA Continuum, 2019, 2, 49.	1.8	15
58	Design of compact mode splitters using identical coupled waveguides with slots. OSA Continuum, 2019, 2, 848.	1.8	5
59	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
60	All-optical synapses based on silicon microring resonators actuated by the phase change material Ge2Sb2Te5. , 2019, , .		2
61	Design and optimization of compact spot-size converters for silicon photonic devices. , 2019, , .		0
62	Elimination of spurious modes in full-vectorial finite element method based acoustic modal solution. Optics Express, 2019, 27, 10900.	1.7	1
63	Ultracompact Si-GST Hybrid Waveguides for Nonvolatile Light Wave Manipulation. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	45
64	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
65	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
66	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
67	Design And Optimization of Emerging Photonic Sensors. , 2018, , .		0
68	Non-volatile optical memory based on a slot nanobeam resonator filled with GST material. , 2018, , .		6
69	Silicon microring resonators tuned with GST phase change material. , 2018, , .		4
70	Non-volatile Optical Switch Based on a GST-Loaded Directional Coupler. , 2018, , .		1
71	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
72	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

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73	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
74	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
75	Design and Optimization of an Al Doped ZnO in Si-Slot for Gas Sensing. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	5
76	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
77	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
78	Design of dispersion-engineered As2Se3 channel waveguide for mid-infrared region supercontinuum generation. Journal of Applied Physics, 2018, 123, .	1.1	21
79	All-optical non-volatile tuning of an AMZI-coupled ring resonator with GST phase-change material. Optics Letters, 2018, 43, 5539.	1.7	34
80	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
81	Design, Characterization and Optimization of Silicon Photonic Waveguides and Devices. , 2018, , .		0
82	Miniature Silicon Nanobeam Resonator Tuned by GST Phase Change Material. , 2018, , .		3
83	Enhancing mode stability of higher order modes in a multimode fiber. , 2018, , .		0
84	Design of ultra-compact composite plasmonic Mach-Zehnder interferometer for chemical vapor sensing. , 2018, , .		0
85	Frequency-interleaved SDM transmission over multicore fiber for next-generation short-reach optical interconnect systems. , 2018, , .		0
86	Energy efficiency of ironâ€“boronâ€“silicon metallic glasses in sulfuric acid solutions. Materials Research Express, 2017, 4, 035201.	0.8	0
87	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
88	A Compact Machâ€“Zehnder Interferometer Using Composite Plasmonic Waveguide for Ethanol Vapor Sensing. Journal of Lightwave Technology, 2017, 35, 3003-3011.	2.7	16
89	Improved design for SOI based evanescently coupled multilayer spot-size converter. Optical and Quantum Electronics, 2017, 49, 1.	1.5	1
90	All-Normal Dispersion Chalcogenide PCF for Ultraflat Mid-Infrared Supercontinuum Generation. IEEE Photonics Technology Letters, 2017, 29, 1792-1795.	1.3	27

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91	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
92	Finite Element Time Domain Method for Photonics. Springer Series in Optical Sciences, 2017, , 1-37.	0.5	0
93	Demonstration of Polarization-Independent Surface Plasmon Resonance Polymer Waveguide for Refractive Index Sensing. Journal of Lightwave Technology, 2017, 35, 3012-3019.	2.7	3
94	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
95	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
96	Evolution of Surface Acoustic Waves in an Optical Microfiber. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.0	4
97	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
98	Cross-slot waveguide and compact straight slotted resonator based bio-chemical sensors. , 2017, , .		0
99	Compact and fabrication-tolerant polarization splitter based on horizontal triple-slot waveguide. Applied Optics, 2017, 56, 2119.	2.1	10
100	Efficient strategy to increase higher order inter-modal stability of a step index multimode fiber. Optics Express, 2017, 25, 29714.	1.7	4
101	Multilayer spot-size converter in SOI for coupling between nanowire and fiber. , 2017, , .		0
102	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
103	Variable Waist-Diameter Machâ€“Zehnder Tapered-Fiber Interferometer as Humidity and Temperature Sensor. IEEE Sensors Journal, 2016, 16, 5987-5992.	2.4	39
104	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
105	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
106	Augmenting data rate performance for higher order modulation in triangular index profile multicore fiber interconnect. Optics Communications, 2016, 371, 40-46.	1.0	2
107	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
108	Rigorous analysis of numerical methods: a comparative study. Optical and Quantum Electronics, 2016, 48, 1.	1.5	2

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109	Surface plasmon resonance-enhanced light interaction in an integrated ormocomp nanowire. Optical and Quantum Electronics, 2016, 48, 1.	1.5	1
110	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
111	Design of a Compact Polarization Splitter by Using Identical Coupled Silicon Nanowires. Journal of Lightwave Technology, 2016, 34, 4169-4178.	2.7	9
112	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
113	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
114	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
115	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
116	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
117	Ultra-broadband mid-infrared supercontinuum generation using chalcogenide rib waveguide. Optical and Quantum Electronics, 2016, 48, 1.	1.5	11
118	Accurate Analysis of the Mode (de)multiplexer Using Asymmetric Directional Coupler. Journal of Lightwave Technology, 2016, 34, 2288-2296.	2.7	20
119	Specialty Fibers for Terahertz Generation and Transmission: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 365-379.	1.9	55
120	A simple analytical model to study of six wave fiber optical parametric amplifier characteristics. Optik, 2015, 126, 5280-5286.	1.4	0
121	Novel spot-size converters for Silicon photonics. , 2015, , .		0
122	SPEEDING BEYOND FDTD, PERFORATED FINITE ELEMENT TIME DOMAIN METHOD FOR 3D ELECTROMAGNETICS. Progress in Electromagnetics Research B, 2015, 64, 171-193.	0.7	1
123	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
124	Interactions of acoustic and optical waves in Ge-doped silica planar optical waveguide. , 2015, , .		0
125	Solutions of low-index and high-index contrast optical waveguide by using full-vectorial FEM. , 2015, , .		0
126	Error probability performance of a short-reach multicore fiber optical interconnect transmission system. Optics Letters, 2015, 40, 4556.	1.7	7

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127	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
128	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
129	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
130	Rigorous analysis of acoustic modes in low and high index contrast silica fibers. Applied Optics, 2015, 54, 2550.	0.9	0
131	A broadband mid-infrared supercontinuum generation using Ge11.5As24Se64.5 channel waveguide. , 2015, , .		0
132	Plastic fiber design for THz generation through wavelength translation. Optics Letters, 2015, 40, 2107.	1.7	10
133	Mid-infrared supercontinuum generation using dispersion-engineered Ge_115As_24Se_645 chalcogenide channel waveguide. Optics Express, 2015, 23, 6903.	1.7	94
134	Rigorous characterization of photonic devices by finite element method. Proceedings of SPIE, 2015, , .	0.8	0
135	Optimization of a horizontal slot waveguide biosensor to detect DNA hybridization. Applied Optics, 2015, 54, 4881.	2.1	45
136	Design Concepts of a Novel Mode Splitter. , 2015, , .		1
137	Framework for Time Relevant Water Monitoring System. , 2015, , 3-19.		2
138	Realization of MOEMS Based Temperature Sensor Using Externally Modulated LINBO₃ Mach Zehnder Interferometer. Sensor Letters, 2015, 13, 756-763.	0.4	1
139	Interactions of Acoustic and Optical Waves in Ge-doped Silica Planar Optical Waveguide. , 2015, , .		0
140	Light-sound interactions in Tellurite Microstructured Fiber. , 2015, , .		0
141	Design of compact polarization splitter using silicon nanowires. , 2015, , .		0
142	Performance of multilevel modulation formats in 92 Gb/s systems in the presence of PMD and nonlinear effects. , 2014, , .		5
143	Performance of different modulation formats in 40 Gb/s optical systems in the presence of polarization mode dispersion and nonlinear effects. , 2014, , .		0
144	PMD tolerance of 107 Gb/s PM-QPSK system at optimum transmitting power. , 2014, , .		1

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145	Realization of a polymer nanowire optical transducer by using the nanoimprint technique. Applied Optics, 2014, 53, 7487.	2.1	8
146	Efficient Terahertz Generation in a Novel Microstructured-Core Double Clad Plastic Fiber. , 2014, , .		0
147	Rigorous characterization of acoustic-optical interactions in silicon slot waveguides by full-vectorial finite element method. Optics Express, 2014, 22, 9528.	1.7	13
148	Dispersion engineered Ge_115As_24Se_645 nanowire for supercontinuum generation: A parametric study. Optics Express, 2014, 22, 31029.	1.7	44
149	Design of compact polarization rotator using simple silicon nanowires. Applied Optics, 2014, 53, 8071.	2.1	8
150	Rigorous analysis of the transverse acoustic modes in optical waveguides by exploiting their structural symmetry. Applied Optics, 2014, 53, 6797.	0.9	4
151	Study of the optical properties of a micro pillar array solar cell for different configurations. , 2014, , .		0
152	Rigorous characterization of nano-photonic devices. , 2014, , .		0
153	Characterization of graphene-based devices for THz systems. , 2014, , .		0
154	Characterization of low-loss waveguides and devices for terahertz radiation. Optical Engineering, 2014, 53, 031210.	0.5	1
155	Emergence of THz technologies and design and optimisation low-loss waveguides and devices. , 2014, , .		0
156	Full-Vectorial Finite-Element Analysis of Acoustic Modes in Silica Waveguides. IEEE Journal of Quantum Electronics, 2014, 50, 1006-1013.	1.0	3
157	Low-loss THz Waveguides and Devices. , 2014, , .		0
158	Low-loss waveguides and devices for compact THz systems. , 2013, , .		0
159	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
160	Low-loss waveguides for THz guidance and devices. Proceedings of SPIE, 2013, , .	0.8	0
161	Ultrabroad supercontinuum generation in tellurite equiangular spiral photonic crystal fiber. Journal of Modern Optics, 2013, 60, 956-962.	0.6	19
162	Design of low-loss waveguides and devices for the emerging THz technologies. , 2013, , .		0

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164	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
165	Stacking the Equiangular Spiral. IEEE Photonics Technology Letters, 2013, 25, 291-294.	1.3	23
166	Rigorous Full-Vectorial Beam Propagation Analysis of Second-Harmonic Generation in Zinc Oxide Waveguides. IEEE Photonics Journal, 2013, 5, 6100112-6100112.	1.0	3
167	Silicon slot waveguides and their rigorous characterization. Proceedings of SPIE, 2013, , .	0.8	0
168	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
169	An Efficient Polarization Converter for Mid-IR Wavelength. , 2013, , .		0
170	Design optimization of low-loss waveguides for THz guidance. , 2012, , .		0
171	Residual Dispersion Compensation with a Spiral PCF. , 2012, , .		0
172	Label-free slot-waveguide biosensor for the detection of DNA hybridization. Applied Optics, 2012, 51, 8195.	0.9	68
173	Birefringence analysis of segmented cladding fiber. Applied Optics, 2012, 51, 3104.	0.9	10
174	Rigorous modal analysis of THz quantum cascade lasers. Proceedings of SPIE, 2012, , .	0.8	0
175	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
176	Design and Characterization of Low-Loss Porous-Core Photonic Crystal Fiber. IEEE Photonics Journal, 2012, 4, 2315-2325.	1.0	80
177	Microfibre Machâ€“Zehnder interferometer and its application as a current sensor. IET Optoelectronics, 2012, 6, 298-302.	1.8	8
178	Design Optimization of Low-loss Waveguides and Devices for THz Systems. , 2012, , .		0
179	Light guidance through void: silicon slot waveguides and their rigorous characterization. Proceedings of SPIE, 2012, , .	0.8	0
180	Low-loss multimode interference couplers for terahertz waves. Proceedings of SPIE, 2012, , .	0.8	3

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181	Design of a compact SOI polarization rotator for mid-IR application. , 2012, , .		1
182	Light guidance in low-index slot-waveguides. , 2012, , .		1
183	Ultra low bending loss equiangular spiral photonic crystal fibers in the terahertz regime. AIP Advances, 2012, 2, 022140.	0.6	21
184	Finite element solutions of nanophotonics devices. , 2012, , .		0
185	Numerical Analysis of Second Harmonic Generation in Soft Glass Equiangular Spiral Photonic Crystal Fibers. IEEE Photonics Journal, 2012, 4, 357-368.	1.0	9
186	Stabilized Large Mode Area in Tapered Photonic Crystal Fiber for Stable Coupling. IEEE Photonics Journal, 2012, 4, 340-349.	1.0	7
187	Finite element characterisation of photonic crystal fibers. , 2011, , .		0
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