Kawser Ahmed

List of Publications by Year
in descending order

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257 papers	6,988 citations	57631 44 h-index	98622 67 g-index
264 all docs	264 docs citations	264 times ranked	1838 citing authors

#	Article	IF	Citations
1	A Novel Approach for Spectroscopic Chemical Identification Using Photonic Crystal Fiber in the Terahertz Regime. IEEE Sensors Journal, 2018, 18, 575-582.	2.4	220
2	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. IEEE Sensors Journal, 2018, 18, 133-140.	2.4	216
3	Surface Plasmon Resonance Based Titanium Coated Biosensor for Cancer Cell Detection. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	168
4	Terahertz detection of alcohol using a photonic crystal fiber sensor. Applied Optics, 2018, 57, 2426.	0.9	151
5	Design of D-shaped elliptical core photonic crystal fiber for blood plasma cell sensing application. Results in Physics, 2019, 12, 2021-2025.	2.0	141
6	Heart disease prediction using supervised machine learning algorithms: Performance analysis and comparison. Computers in Biology and Medicine, 2021, 136, 104672.	3.9	141
7	Refractive Index-Based Blood Components Sensing in Terahertz Spectrum. IEEE Sensors Journal, 2019, 19, 3368-3375.	2.4	131
8	Gold-coated photonic crystal fiber biosensor based on surface plasmon resonance: Design and analysis. Sensing and Bio-Sensing Research, 2018, 18, 7-12.	2.2	125
9	Design and optimization of photonic crystal fiber for liquid sensing applications. Photonic Sensors, 2016, 6, 279-288.	2.5	119
10	Hybrid photonic crystal fiber in chemical sensing. SpringerPlus, 2016, 5, 748.	1.2	103
11	Triâ€core photonic crystal fiber based refractive index dual sensor for salinity and temperature detection. Microwave and Optical Technology Letters, 2019, 61, 847-852.	0.9	96
12	Differential optical absorption spectroscopy-based refractive index sensor for cancer cell detection. Optical Review, 2021, 28, 134-143.	1.2	96
13	Plasmonic Refractive Index Sensor Employing Niobium Nanofilm on Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2018, 30, 315-318.	1.3	92
14	Design and numerical analysis of microstructured-core octagonal photonic crystal fiber for sensing applications. Sensing and Bio-Sensing Research, 2016, 7, 1-6.	2.2	88
15	Folded cladding porous shaped photonic crystal fiber with high sensitivity in optical sensing applications: Design and analysis. Sensing and Bio-Sensing Research, 2017, 12, 36-42.	2.2	88
16	Beam divergence and operating wavelength bands effects on free space optics communication channels in local access networks. Journal of Optical Communications, 2024, 44, s823-s831.	4.0	83
17	Ultrahigh birefringence, ultralow material loss porous core single-mode fiber for terahertz wave guidance. Applied Optics, 2017, 56, 3477.	2.1	82
18	Conventional/Phase Shift Dual Drive Machâ€“Zehnder Modulation Measured Type Based Radio over Fiber Systems. Journal of Optical Communications, 2021, .	4.0	82

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19	Proposal of a gas sensor with high sensitivity, birefringence and nonlinearity for air pollution monitoring. Sensing and Bio-Sensing Research, 2016, 10, 20-26.	2.2	78
20	Highly birefringent elliptical core photonic crystal fiber for terahertz application. Optics Communications, 2018, 407, 92-96.	1.0	76
21	Spatial optical transceiver systemâ€“based key solution for high data rates in measured index multimode optical fibers for indoor applications. Journal of Optical Communications, 2020, .	4.0	76
22	Quasi-Photonic Crystal Fiber-Based Spectroscopic Chemical Sensor in the Terahertz Spectrum: Design and Analysis. IEEE Sensors Journal, 2018, 18, 9948-9954.	2.4	75
23	Simulation study of signal gain optimization based on hybrid composition techniques for high-speed optically dense multiplexed systems. Journal of Optical Communications, 2021, .	4.0	75
24	Fabry Perot laser properties with high pump lasers for upgrading fiber optic transceiver systems. Journal of Optical Communications, 2022, .	4.0	74
25	Chirped Large Mode Area Photonic Crystal Modal Fibers and its Resonance Modes Based on Finite Element Technique. Journal of Optical Communications, 2023, 44, 333-338.	4.0	73
26	Technical Specifications of the Submarine Fiber Optic Channel Bandwidth/Capacity in Optical Fiber Transmission Systems. Journal of Optical Communications, 2020, .	4.0	72
27	Polar Polarization Mode and Average Radical Flux Intensity Measurements Based on All Optical Spatial Communication Systems. Journal of Optical Communications, 2022, .	4.0	72
28	Liquid-infiltrated photonic crystal fiber for sensing purpose: Design and analysis. AEJ - Alexandria Engineering Journal, 2018, 57, 1459-1466.	3.4	70
29	Sensing of toxic chemicals using polarized photonic crystal fiber in the terahertz regime. Optics Communications, 2018, 426, 341-347.	1.0	70
30	Highly Sensitive Twin Resonance Coupling Refractive Index Sensor Based on Gold- and MgF2-Coated Nano Metal Films. Biosensors, 2021, 11, 104.	2.3	70
31	Performance Enhancement of Fiber Optic and Optical Wireless Communication Channels by Using Forward Error Correction Codes. Journal of Optical Communications, 2021, .	4.0	70
32	Optimization and enhancement of liquid analyte sensing performance based on square-cored octagonal photonic crystal fiber. Optik, 2017, 131, 687-696.	1.4	69
33	D-shaped PCF sensor based on SPR for the detection of carcinogenic agents in food and cosmetics. Optik, 2019, 180, 264-270.	1.4	67
34	Network-based identification genetic effect of SARS-CoV-2 infections to Idiopathic pulmonary fibrosis (IPF) patients. Briefings in Bioinformatics, 2021, 22, 1254-1266.	3.2	64
35	Alcohol sensing over O+E+S+C+L+U transmission band based on porous cored octagonal photonic crystal fiber. Photonic Sensors, 2017, 7, 123-130.	2.5	60
36	The effects of Tx./Rx. pointing errors on the performance efficiency of local area optical wireless communication networks. Journal of Optical Communications, 2022, .	4.0	58

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37	Bioinformatics and system biology approach to identify the influences of SARS-CoV-2 infections to idiopathic pulmonary fibrosis and chronic obstructive pulmonary disease patients. Briefings in Bioinformatics, 2021, 22, .	3.2	57
38	Development and analysis of surface plasmon resonance based refractive index sensor for pregnancy testing. Optics and Lasers in Engineering, 2021, 140, 106551.	2.0	56
39	Early Detection of Lung Cancer Risk Using Data Mining. Asian Pacific Journal of Cancer Prevention, 2013, 14, 595-598.	0.5	56
40	Ultraâ€Wideband, Polarizationâ€Independent, Wideâ€Angle Multilayer Swastikaâ€Shaped Metamaterial Solar Energy Absorber with Absorption Prediction using Machine Learning. Advanced Theory and Simulations, 2022, 5, .	1.3	53
41	Deep Transfer Learning Based Intrusion Detection System for Electric Vehicular Networks. Sensors, 2021, 21, 4736.	2.1	52
42	Design of a porous cored hexagonal photonic crystal fiber based optical sensor with high relative sensitivity for lower operating wavelength. Photonic Sensors, 2017, 7, 55-65.	2.5	50
43	Tetra-core surface plasmon resonance based biosensor for alcohol sensing. Physica B: Condensed Matter, 2019, 570, 48-52.	1.3	50
44	Design of single mode spiral photonic crystal fiber for gas sensing applications. Sensing and Bio-Sensing Research, 2017, 13, 55-62.	2.2	49
45	Design and analysis of slotted core photonic crystal fiber for gas sensing application. Results in Physics, 2018, 11, 643-650.	2.0	49
46	High sensitivity refractive index sensor based on triple layer MgF2-gold-MgF2 coated nano metal films photonic crystal fiber. Optik, 2021, 241, 166950.	1.4	48
47	Silicon nano crystal filled photonic crystal fiber for high nonlinearity. Optical Materials, 2018, 84, 545-549.	1.7	44
48	Application of optical fiber nanotechnology in power communication transmission. AEJ - Alexandria Engineering Journal, 2020, 59, 5019-5030.	3.4	43
49	Federated Machine Learning for Detection of Skin Diseases and Enhancement of Internet of Medical Things (IoMT) Security. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 835-841.	3.9	43
50	Titanium-Coated Dual-Core D-Shaped SPR-Based PCF for Hemoglobin Sensing. Plasmonics, 2019, 14, 1601-1610.	1.8	42
51	Design of highly sensible porous shaped photonic crystal fiber with strong confinement field for optical sensing. Optik, 2017, 142, 541-549.	1.4	41
52	FEM analysis of birefringence, dispersion and nonlinearity of graphene coated photonic crystal fiber. Ceramics International, 2019, 45, 15343-15347.	2.3	41
53	Design and analysis of biosensor based on surface plasmon resonance. Sensing and Bio-Sensing Research, 2018, 21, 1-6.	2.2	40
54	A Novel Hexahedron Photonic Crystal Fiber in Terahertz Propagation: Design and Analysis. Photonics, 2019, 6, 32.	0.9	39

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55	Encoding and Tuning of THz Metasurface-Based Refractive Index Sensor With Behavior Prediction Using XGBoost Regressor. IEEE Access, 2022, 10, 24797-24814.	2.6	39
56	Investigation of gas sensor based on differential optical absorption spectroscopy using photonic crystal fiber. AEJ - Alexandria Engineering Journal, 2020, 59, 5045-5052.	3.4	38
57	PreDTIs: prediction of drugâ€“target interactions based on multiple feature information using gradient boosting framework with data balancing and feature selection techniques. Briefings in Bioinformatics, 2021, 22, .	3.2	38
58	Dependable Intrusion Detection System for IoT: A Deep Transfer Learning Based Approach. IEEE Transactions on Industrial Informatics, 2023, 19, 1006-1017.	7.2	38
59	Ring-based coil structure photonic crystal fiber for transmission of Orbital Angular Momentum with large bandwidth: Outline, investigation and analysis. Optics Communications, 2020, 473, 126003.	1.0	37
60	Nanoscale GaP strips based photonic crystal fiber with high nonlinearity and high numerical aperture for laser applications. Results in Physics, 2018, 10, 374-378.	2.0	36
61	Design a photonic crystal fiber of guiding terahertz orbital angular momentum beams in optical communication. Optics Communications, 2020, 475, 126192.	1.0	36
62	Effect of photonic crystal fiber background materials in sensing and communication applications. Materials Discovery, 2017, 7, 8-14.	3.3	35
63	Photonic crystal fiber for robust orbital angular momentum transmission: design and investigation. Optical and Quantum Electronics, 2020, 52, 1.	1.5	35
64	Design and fabrication of amoeba faced photonic crystal fiber for biosensing application. Sensors and Actuators A: Physical, 2020, 313, 112204.	2.0	35
65	Machine learning-based statistical analysis for early stage detection of cervical cancer. Computers in Biology and Medicine, 2021, 139, 104985.	3.9	35
66	Highly birefringent single mode spiral shape photonic crystal fiber based sensor for gas sensing applications. Sensing and Bio-Sensing Research, 2017, 14, 30-38.	2.2	34
67	Chalcogenide embedded quasi photonic crystal fiber for nonlinear optical applications. Ceramics International, 2018, 44, 18955-18959.	2.3	34
68	Numerical analysis of circular core shaped photonic crystal fiber for orbital angular momentum with efficient transmission. Applied Physics B: Lasers and Optics, 2020, 126, 1.	1.1	32
69	Ultra high birefringence and lower beat length for square shape PCF: Analysis effect on rotation angle and eccentricity. AEJ - Alexandria Engineering Journal, 2018, 57, 3683-3691.	3.4	31
70	Development of Photonic Crystal Fiber-Based Gas/Chemical Sensors. , 2019, , 287-317.		31
71	Highly birefringent TOPAS based single mode photonic crystal fiber with ultra-low material loss for Terahertz applications. Optical Fiber Technology, 2019, 53, 102031.	1.4	31
72	Design and performance evaluation of photonic crystal fibers of supporting orbital angular momentum states in optical transmission. Optics Communications, 2020, 467, 125731.	1.0	31

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73	Design of a singleâ€mode photonic crystal fibre with ultraâ€low material loss and large effective mode area in THz regime. IET Optoelectronics, 2017, 11, 265-271.	1.8	30
74	Identification of biomarkers and pathways for the SARS-CoV-2 infections that make complexities in pulmonary arterial hypertension patients. Briefings in Bioinformatics, 2021, 22, 1451-1465.	3.2	30
75	Highly sensitive simple structure circular photonic crystal fiber based chemical sensor. , 2015, , .		29
76	Ultra-high negative dispersion compensating square lattice based single mode photonic crystal fiber with high nonlinearity. Optical Review, 2017, 24, 147-155.	1.2	29
77	Proposed Square Lattice Photonic Crystal Fiber for Extremely High Nonlinearity, Birefringence and Ultra-High Negative Dispersion Compensation. Journal of Optical Communications, 2019, 40, 401-410.	4.0	29
78	Ultra-high negative dispersion compensating modified square shape photonic crystal fiber for optical broadband communication. AEJ - Alexandria Engineering Journal, 2022, 61, 2799-2806.	3.4	29
79	Early Prevention and Detection of Skin Cancer Risk using Data Mining. International Journal of Computer Applications, 2013, 62, 1-6.	0.2	29
80	Designing efficient QCA even parity generator circuits with power dissipation analysis. AEJ - Alexandria Engineering Journal, 2018, 57, 2475-2484.	3.4	28
81	Design of terahertz spectroscopy based optical sensor for chemical detection. SN Applied Sciences, 2019, 1, 1.	1.5	28
82	Fe3O4 nanofluid injected photonic crystal fiber for magnetic field sensing applications. Journal of Magnetism and Magnetic Materials, 2020, 494, 165831.	1.0	27
83	Analysis of terahertz waveguide properties of Q-PCF based on FEM scheme. Optical Materials, 2020, 100, 109634.	1.7	27
84	Detection of cancer affected cell using Sagnac interferometer based photonic crystal fiber refractive index sensor. Optical and Quantum Electronics, 2020, 52, 1.	1.5	27
85	Ultrahigh sensitivity refractive index biosensor based on gold coated nano-film photonic crystal fiber. Results in Physics, 2020, 17, 103151.	2.0	27
86	Novel spider web photonic crystal fiber for robust mode transmission applications with supporting orbital angular momentum transmission property. Optical and Quantum Electronics, 2020, 52, 1.	1.5	27
87	Design and optimization of photonic crystal fiber based sensor for gas condensate and air pollution monitoring. Photonic Sensors, 2017, 7, 234-245.	2.5	26
88	A novel Zeonex based photonic sensor for alcohol detection in beverages. , 2017, , .		26
89	Silicon nano crystal filled ellipse core based quasi photonic crystal fiber with birefringence and very high nonlinearity. Chinese Journal of Physics, 2018, 56, 2782-2788.	2.0	26
90	Highly Sensitive Refractive Index Sensor for Temperature and Salinity Measurement of Seawater. Optik, 2020, 216, 164901.	1.4	26

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91	Design of a surface plasmon resonance refractive index sensor with high sensitivity. Optical Engineering, 2017, 56, 1.	0.5	25
92	Porous shaped photonic crystal fiber with strong confinement field in sensing applications: Design and analysis. Sensing and Bio-Sensing Research, 2017, 13, 63-69.	2.2	23
93	Effects of TiO2 on the performance of silver coated on side-polished optical fiber for alcohol sensing applications. Optical Fiber Technology, 2019, 50, 183-187.	1.4	23
94	Ultra-high negative dispersion and nonlinearity based single mode photonic crystal fiber: design and analysis. Journal of Optics (India), 2019, 48, 18-25.	0.8	23
95	Graphene-based metasurface solar absorber design for the visible and near-infrared region with behavior prediction using Polynomial Regression. Optik, 2022, 262, 169298.	1.4	23
96	The performance of hosting and core materials for slotted core Q-PCF in terahertz spectrum. Optik, 2019, 194, 163084.	1.4	22
97	Surface plasmon resonance-based gold-coated biosensor for the detection of fuel adulteration. Journal of Computational Electronics, 2020, 19, 321-332.	1.3	22
98	Proposal of simple gas sensor based on micro structure optical fiber. , 2015, , .		21
99	Average output polarization dataset for signifying the temperature influence for QCA designed reversible logic circuits. Data in Brief, 2018, 19, 42-48.	0.5	21
100	Design of tellurite glass based quasi photonic crystal fiber with high nonlinearity. Optik, 2019, 181, 185-190.	1.4	21
101	Assessment of Menopausal Symptoms among Early and Late Menopausal Midlife Bangladeshi Women and Their Impact on the Quality of Life. Journal of Menopausal Medicine, 2016, 22, 39.	0.3	20
102	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">Si</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mro material filled novel heptagonal photonic crystal fiber for laser applications. Ceramics International, 2019, 45, 1215-1218.	1.3	20
103	Exploring refractive index sensor using gold coated D-shaped photonic crystal fiber for biosensing applications. Optik, 2020, 202, 163649.	1.4	20
104	Novel design of dual guided photonic crystal fiber for large capacity transmission in high-speed optics communications with supporting good quality OAM and LP modes. AEJ - Alexandria Engineering Journal, 2020, 59, 4889-4899.	3.4	20
105	Simple hollow core photonic crystal fiber for monitoring carbon dioxide gas with very high accuracy. Sensing and Bio-Sensing Research, 2021, 31, 100401.	2.2	20
106	Design and numerical analysis: Effect of core and cladding area on hybrid hexagonal microstructure optical fiber in environment pollution sensing applications. Karbala International Journal of Modern Science, 2017, 3, 29-38.	0.5	19
107	Designing single layer counter in quantum-dot cellular automata with energy dissipation analysis. Ain Shams Engineering Journal, 2018, 9, 2641-2648.	3.5	19
108	Investigation of highly birefringent and highly nonlinear Hexa Sectored PCF with low confinement loss. Results in Physics, 2018, 11, 1039-1043.	2.0	19

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109	Depression and Quality of Life among Postmenopausal Women in Bangladesh: A Cross-sectional Study. Journal of Menopausal Medicine, 2017, 23, 172.	0.3	18
110	Ultra-low Loss with Single Mode Polymer-Based Photonic Crystal Fiber for THz Waveguide. Journal of Optical Communications, 2019, 40, 411-417.	4.0	18
111	Design of Magnetic Fluid Sensor Using Elliptically Hole Assisted Photonic Crystal Fiber (PCF). Journal of Superconductivity and Novel Magnetism, 2020, 33, 2189-2198.	0.8	18
112	Numerical demonstration of triangular shaped photonic crystal fibreâ€based biosensor in the Terahertz range. IET Optoelectronics, 2021, 15, 1-7.	1.8	18
113	Association Assessment among Risk Factors and Breast Cancer in a Low Income Country: Bangladesh. Asian Pacific Journal of Cancer Prevention, 2015, 16, 7507-7512.	0.5	18
114	Benzene Shape Photonic Crystal Fiber Based Plasma Sensor: Design and Analysis. Photonic Sensors, 2018, 8, 263-269.	2.5	17
115	Single polarization photonic crystal fiber filter based on surface plasmon resonance. Frontiers of Optoelectronics, 2019, 12, 157-164.	1.9	17
116	Extremely Low Loss of Photonic Crystal Fiber for Terahertz Wave Propagation in Optical Communication Applications. Journal of Optical Communications, 2020, 41, 393-401.	4.0	17
117	Sensitivity Comparison of Refractive Index Transducer Optical Fiber Based on Surface Plasmon Resonance Using Ag, Cu, and Bimetallic Agâ€“Cu Layer. Micromachines, 2020, 11, 77.	1.4	17
118	Numerical investigation of spiral photonic crystal fiber (S-PCF) with supporting high order OAM modes propagation for space division multiplexing applications. Optical and Quantum Electronics, 2021, 53, 1.	1.5	17
119	Tellurite glass based optical fiber for the investigation of supercontinuum generation and nonlinear properties. Physica Scripta, 2022, 97, 030007.	1.2	17
120	Rhombic core photonic crystal fiber for sensing applications: Modeling and analysis. Optik, 2018, 157, 1357-1365.	1.4	16
121	Numerical evaluation of the performance of different materials in nonlinear optical applications. Results in Physics, 2019, 13, 102184.	2.0	16
122	Heptagonal Photonic Crystal Fiber Based Chemical Sensor in THz Regime. , 2019, , .		16
123	A genome-wide association study to identify candidate genes for erectile dysfunction. Briefings in Bioinformatics, 2020, 22, .	3.2	16
124	FEM based highly sensitive dual core temperature sensor: design and analysis. OSA Continuum, 2019, 2, 2581.	1.8	16
125	Development of an in silico multi-epitope vaccine against SARS-COV-2 by prÃ©cised immune-informatics approaches. Informatics in Medicine Unlocked, 2021, 27, 100781.	1.9	16
126	Single-mode spiral shape fiber based liquid sensor with ultra-high sensitivity and ultra-low loss: Design and analysis. Karbala International Journal of Modern Science, 2017, 3, 131-142.	0.5	15

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127	Investigation of ultra-low loss surface plasmon resonance-based PCF for biosensing application. Results in Physics, 2018, 11, 358-361.	2.0	15
128	Comprehensive effects of black cumin (Nigella sativa) and synthetic antioxidant on sensory and physicochemical quality of beef patties during refrigerant storage. Journal of Agriculture and Food Research, 2021, 4, 100145.	1.2	15
129	Materials Effect in Sensing Performance Based on Surface Plasmon Resonance Using Photonic Crystal Fiber. Plasmonics, 2019, 14, 861-867.	1.8	14
130	Proposal of a simple structure photonic crystal fiber for lower indexed chemical sensing. , 2015, , .		13
131	Numerical modeling of a CdS/CdTe photovoltaic cell based on ZnTe BSF layer with optimum thickness of absorber layer. Cogent Engineering, 2017, .	1.1	13
132	Performance evaluation of efficient combinational logic design using nanomaterial electronics. Cogent Engineering, 2017, 4, 1349539.	1.1	13
133	Dataset of surface plasmon resonance based on photonic crystal fiber for chemical sensing applications. Data in Brief, 2018, 19, 76-81.	0.5	13
134	Toward Efficient Design of Flip-flops in Quantum-Dot Cellular Automata with Power Dissipation Analysis. International Journal of Theoretical Physics, 2018, 57, 3419-3428.	0.5	13
135	Quasi photonic crystal fiber for chemical sensing purpose in the terahertz regime: design and analysis. Optical and Quantum Electronics, 2019, 51, 1.	1.5	13
136	Design and characterization of rectangular slotted porous core photonic crystal fiber for sensing CO2 gas. Sensing and Bio-Sensing Research, 2020, 30, 100379.	2.2	13
137	Design and optimization of terahertz blood components sensor using photonic crystal fiber. Sensing and Bio-Sensing Research, 2020, 30, 100386.	2.2	13
138	Magnetic Fluid-Injected Ring-Core-Based Micro-structured Optical Fiber for Temperature Sensing in Broad Wavelength Spectrum. Journal of Electronic Materials, 2020, 49, 4969-4976.	1.0	13
139	Identification of the core ontologies and signature genes of polycystic ovary syndrome (PCOS): A bioinformatics analysis. Informatics in Medicine Unlocked, 2020, 18, 100304.	1.9	13
140	GaAs-filled elliptical core-based hexagonal PCF with excellent optical properties for nonlinear optical applications. Ceramics International, 2022, 48, 5617-5625.	2.3	13
141	High sensitive PCF based chemical sensor for ethanol detection. , 2016, , .		12
142	Power analysis dataset for QCA based multiplexer circuits. Data in Brief, 2017, 11, 593-596.	0.5	12
143	Low insertion loss and high extinction ratio analysis of a new surface plasmon resonance based photonic crystal fiber filter. Optik, 2019, 194, 163069.	1.4	12
144	Design of Ge20Sb15Se65 embedded rectangular slotted quasi photonic crystal fiber for higher nonlinearity applications. Optik, 2019, 184, 63-69.	1.4	12

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145	Design protein-protein interaction network and protein-drug interaction network for common cancer diseases: A bioinformatics approach. Informatics in Medicine Unlocked, 2020, 18, 100311.	1.9	12
146	Design of novel models for optical communication with ultra-high non-linearity, birefringence and low loss profile. Physica Scripta, 2021, 96, 125107.	1.2	12
147	Multimode Interference-Based Photonic Crystal Fiber Glucose Sensor. Plasmonics, 2021, 16, 811-818.	1.8	12
148	Comparative Analysis of Data Mining Classification Algorithms in Type-2 Diabetes Prediction Data Using WEKA Approach. International Journal of Science and Engineering, 2014, 7, .	0.1	11
149	Dataset on photonic crystal fiber based chemical sensor. Data in Brief, 2017, 12, 227-233.	0.5	11
150	Extremely low loss optical waveguide for terahertz pulse guidance. Results in Physics, 2019, 15, 102666.	2.0	11
151	Analysis of optical sensitivity of analytes in aqua solutions. Optik, 2019, 178, 970-977.	1.4	11
152	The design and analysis of a dual-diamond-ring PCF-based sensor. Journal of Computational Electronics, 2020, 19, 1288-1294.	1.3	11
153	Micro-Structure Ring Fiberâ€“Based Novel Magnetic Sensor with High Birefringence and High Sensitivity Response in Broad Waveband. Plasmonics, 2021, 16, 905-913.	1.8	11
154	Low-Loss Single Mode Terahertz Microstructure Fiber with Near-Zero-Flattened Dispersion. Advanced Science, Engineering and Medicine, 2017, 9, 829-836.	0.3	11
155	Application of microarray-core based modified photonic crystal fiber in chemical sensing. , 2015, , .		10
156	High birefringent, low loss and flattened dispersion asymmetric slotted core-based photonic crystal fiber in THz regime. International Journal of Modern Physics B, 2019, 33, 1950218.	1.0	10
157	Hi-Bi Photonic Crystal Fiber for Broadband Filter Realization Using Copper Microwires. Plasmonics, 2020, 15, 1789-1797.	1.8	10
158	SPR Sensor-Based Sensitivity Performance Investigation Using an H-Shaped Model with Supportive Metal Variation. Plasmonics, 2021, 16, 1327-1337.	1.8	10
159	Fault detection technology of national traditional sports equipment based on optical microscope imaging technology. AEJ - Alexandria Engineering Journal, 2021, 60, 2697-2705.	3.4	10
160	Novel nested anti-resonant fiber based magnetic fluids sensor: Performance and bending effects inspection. Journal of Magnetism and Magnetic Materials, 2021, 538, 168230.	1.0	10
161	Ultra-broadband and polarization-insensitive metasurface absorber with behavior prediction using machine learning. AEJ - Alexandria Engineering Journal, 2022, 61, 10379-10393.	3.4	10
162	Identification of Significant Risk Factors and Impact for ASD Prediction among Children Using Machine Learning Approach. , 2022, , .		10

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163	Ultra-efficient convolution encoder design in quantum-dot cellular automata with power dissipation analysis. AEJ - Alexandria Engineering Journal, 2018, 57, 3881-3888.	3.4	9
164	An optimal design of conservative efficient reversible parity logic circuits using QCA. International Journal of Information Technology (Singapore), 2019, 11, 785-794.	1.8	9
165	Inspection of an HSH-PCF for optical Communication with high Non-linearity, birefringence and negative dispersion. AEJ - Alexandria Engineering Journal, 2022, 61, 11139-11147.	3.4	9
166	Simulation based analysis of formalin detection through photonic crystal fiber. , 2016, , .		8
167	Slotted-core photonic crystal fiber in gas-sensing application. , 2016, , .		8
168	A novel star shape photonic crystal fiber for low loss terahertz pulse propagation. Nano Communication Networks, 2019, 19, 26-32.	1.6	8
169	Identification of molecular biomarkers and pathways of NSCLC: insights from a systems biomedicine perspective. Journal of Genetic Engineering and Biotechnology, 2021, 19, 43.	1.5	8
170	Long-Range Surface Plasmon Resonanceâ€“Based Sensitivity Study on D-shaped Ag-MgF2-Coated Models with Analyte Variations. Plasmonics, 2022, 17, 277-286.	1.8	8
171	Novel Detection of Diesel Adulteration Using Silver-Coated Surface Plasmon Resonance Sensor. Plasmonics, 2022, 17, 467-478.	1.8	8
172	Performance analysis of circularly photonic crystal fiber for orbital angular momentum mode generation. Optical Engineering, 2019, 58, 1.	0.5	8
173	Design and Optimization of Highly Sensitive Photonic Crystal Fiber with Low Confinement Loss for Ethanol Detection. International Journal of Technology, 2016, 7, 1068.	0.4	8
174	Design of Simple Structure Gas Sensor Based on Hybrid Photonic Crystal Fiber. Cumhuriyet Ãœniversitesi Fen FakÃ¼ltesi Fen Bilimleri Dergisi, 2016, 37, 187.	0.1	8
175	Identification of Potential Key Genes and Molecular Mechanisms of Medulloblastoma Based on Integrated Bioinformatics Approach. BioMed Research International, 2022, 2022, 1-17.	0.9	8
176	MLBioIGE: integration and interplay of machine learning and bioinformatics approach to identify the genetic effect of SARS-COV-2 on idiopathic pulmonary fibrosis patients. Biology Methods and Protocols, 2022, 7, .	1.0	8
177	YOLO_CC: Deep Learning based Approach for Early Stage Detection of Cervical Cancer from Cervix Images Using YOLOv5s Model. , 2022, , .		8
178	Highly birefringent, low loss single-mode porous fiber for THz wave guidance. Results in Physics, 2018, 11, 549-553.	2.0	7
179	Low material loss and dispersion flattened fiber for single mode THz-wave transmission applications. Results in Physics, 2018, 11, 638-642.	2.0	7
180	Numerical analysis of a highly nonlinear microstructured optical fiber with air-holes arranged in spirals. Optical Fiber Technology, 2019, 51, 90-95.	1.4	7

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