

Bikash Kumar Paul

List of Publications by Year in descending order

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148
papers

4,339
citations

117625

34
h-index

155660

55
g-index

148
all docs

148
docs citations

148
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.7	83
2	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.	4.7	73
3	Polar Polarization Mode and Average Radical Flux Intensity Measurements Based on All Optical Spatial Communication Systems. Journal of Optical Communications, 2022, .	4.7	72
4	Ultra-high negative dispersion compensating modified square shape photonic crystal fiber for optical broadband communication. AEJ - Alexandria Engineering Journal, 2022, 61, 2799-2806.	6.4	29
5	Novel Detection of Diesel Adulteration Using Silver-Coated Surface Plasmon Resonance Sensor. Plasmonics, 2022, 17, 467-478.	3.4	8
6	Identification of Molecular Biomarkers and Key Pathways for Esophageal Carcinoma (EsC): A Bioinformatics Approach. BioMed Research International, 2022, 2022, 1-14.	1.9	4
7	Identification of Potential Key Genes and Molecular Mechanisms of Medulloblastoma Based on Integrated Bioinformatics Approach. BioMed Research International, 2022, 2022, 1-17.	1.9	8
8	Novel shaped solid-core photonic crystal fiber for the numerical study of nonlinear optical properties. Optical and Quantum Electronics, 2022, 54, .	3.3	6
9	Key performance parameters estimation with Epsilon near zero (ENZ) for Kagome photonic crystal fiber in THz system. Optical and Quantum Electronics, 2022, 54, .	3.3	31
10	Automatic driver distraction detection using deep convolutional neural networks. Intelligent Systems With Applications, 2022, 14, 200075.	3.0	15
11	Hexa-sectored square photonic crystal fiber for blood serum and plasma sensing with ultralow confinement loss. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	26
12	Signal propagation parameters estimation through designed multi layer fibre with higher dominant modes using OptiFibre simulation. Journal of Optical Communications, 2022, .	4.7	9
13	Various transmission codes for the control of bit error rate in both optical wired and wireless communication channels. Journal of Optical Communications, 2022, .	4.7	9
14	Network-based identification genetic effect of SARS-CoV-2 infections to Idiopathic pulmonary fibrosis (IPF) patients. Briefings in Bioinformatics, 2021, 22, 1254-1266.	6.5	64
15	Numerical demonstration of triangular shaped photonic crystal fibre based biosensor in the Terahertz range. IET Optoelectronics, 2021, 15, 1-7.	3.3	18
16	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.	3.3	17
17	Protein interaction network and drug design of stomach cancer and associated disease: a bioinformatics approach. Journal of Proteins and Proteomics, 2021, 12, 33-43.	1.5	2
18	Significant pathway and biomarker identification of pancreatic cancer associated lung cancer. Informatics in Medicine Unlocked, 2021, 25, 100637.	3.4	2

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19	Micro-Structure Ring Fiber-Based Novel Magnetic Sensor with High Birefringence and High Sensitivity Response in Broad Waveband. <i>Plasmonics</i> , 2021, 16, 905-913.	3.4	11
20	Identification of biomarkers and pathways for the SARS-CoV-2 infections that make complexities in pulmonary arterial hypertension patients. <i>Briefings in Bioinformatics</i> , 2021, 22, 1451-1465.	6.5	30
21	Identification of molecular biomarkers and pathways of NSCLC: insights from a systems biomedicine perspective. <i>Journal of Genetic Engineering and Biotechnology</i> , 2021, 19, 43.	3.3	8
22	Exploring the optical properties of exposed-core-based photonic-crystal fibers. <i>Journal of Computational Electronics</i> , 2021, 20, 1260-1269.	2.5	5
23	Machine learning to reveal an astute risk predictive framework for Gynecologic Cancer and its impact on women psychology: Bangladeshi perspective. <i>BMC Bioinformatics</i> , 2021, 22, 213.	2.6	13
24	ROF systems performance efficiency based on continuous phase frequency shift keying phase modulation scheme. <i>Journal of Optical Communications</i> , 2021, .	4.7	45
25	Anomalous birefringence and nonlinearity enhancement of As_2S_3 and As_2S_5 filled D-shape fiber for optical communication. <i>Physica Scripta</i> , 2021, 96, 115501.	2.5	7
26	Automated invasive cervical cancer disease detection at early stage through suitable machine learning model. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	23
27	Heart disease prediction using supervised machine learning algorithms: Performance analysis and comparison. <i>Computers in Biology and Medicine</i> , 2021, 136, 104672.	7.0	141
28	Performance Enhancement of Fiber Optic and Optical Wireless Communication Channels by Using Forward Error Correction Codes. <i>Journal of Optical Communications</i> , 2021, .	4.7	70
29	Conventional/Phase Shift Dual Drive Mach-Zehnder Modulation Measured Type Based Radio over Fiber Systems. <i>Journal of Optical Communications</i> , 2021, .	4.7	82
30	Machine learning-based statistical analysis for early stage detection of cervical cancer. <i>Computers in Biology and Medicine</i> , 2021, 139, 104985.	7.0	35
31	A deep learning approach using effective preprocessing techniques to detect COVID-19 from chest CT-scan and X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 139, 105014.	7.0	56
32	Machine learning based diabetes prediction and development of smart web application. <i>International Journal of Cognitive Computing in Engineering</i> , 2021, 2, 229-241.	8.2	42
33	Spatial single mode laser source interaction with measured pulse based parabolic index multimode fiber. <i>Journal of Optical Communications</i> , 2021, .	4.7	20
34	Technical Specifications of the Submarine Fiber Optic Channel Bandwidth/Capacity in Optical Fiber Transmission Systems. <i>Journal of Optical Communications</i> , 2020, .	4.7	72
35	Extremely Low Loss of Photonic Crystal Fiber for Terahertz Wave Propagation in Optical Communication Applications. <i>Journal of Optical Communications</i> , 2020, 41, 393-401.	4.7	17
36	Fe ₃ O ₄ nanofluid injected photonic crystal fiber for magnetic field sensing applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 494, 165831.	2.3	27

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37	Exploring refractive index sensor using gold coated D-shaped photonic crystal fiber for biosensing applications. <i>Optik</i> , 2020, 202, 163649.	2.9	20
38	Theoretical analysis of highly temperature-sensitive fem based optical sensor in the infrared range. <i>Optik</i> , 2020, 205, 164060.	2.9	7
39	Analysis of terahertz waveguide properties of Q-PCF based on FEM scheme. <i>Optical Materials</i> , 2020, 100, 109634.	3.6	27
40	Surface plasmon resonance-based gold-coated biosensor for the detection of fuel adulteration. <i>Journal of Computational Electronics</i> , 2020, 19, 321-332.	2.5	22
41	Graphene Injected D-Shape Photonic Crystal Fiber for Nonlinear Optical Applications. <i>Silicon</i> , 2020, 12, 2293-2300.	3.3	6
42	Photonic crystal fiber for robust orbital angular momentum transmission: design and investigation. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	35
43	Design and FEM analysis of pentagonal photonic crystal fiber for highly non-linear applications. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	6
44	Investigation of gas sensor based on differential optical absorption spectroscopy using photonic crystal fiber. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 5045-5052.	6.4	38
45	Design and fabrication of amoeba faced photonic crystal fiber for biosensing application. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112204.	4.1	35
46	Identification of vital regulatory genes with network pathways among Huntingtonâ€™s, Parkinsonâ€™s, and Alzheimerâ€™s diseases. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2020, 9, 1.	2.1	3
47	Numerical analysis of circular core shaped photonic crystal fiber for orbital angular momentum with efficient transmission. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	32
48	Proposal of a Highly Birefringent Bow-Tie Photonic Crystal Fiber for Nonlinear Applications. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 659-670.	0.3	3
49	Network based study to explore genetic linkage between diabetes mellitus and myocardial ischemia: Bioinformatics approach. <i>Gene Reports</i> , 2020, 21, 100809.	0.8	4
50	The design and analysis of a dual-diamond-ring PCF-based sensor. <i>Journal of Computational Electronics</i> , 2020, 19, 1288-1294.	2.5	11
51	Carbon disulphide (CS ₂) enriched photonic crystal fiber for nonlinear application: a FEM scheme. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	6
52	Mining and predicting protein-drug interaction network of breast cancer risk genes. <i>Gene Reports</i> , 2020, 20, 100753.	0.8	0
53	Design a photonic crystal fiber of guiding terahertz orbital angular momentum beams in optical communication. <i>Optics Communications</i> , 2020, 475, 126192.	2.1	36
54	Design of Magnetic Fluid Sensor Using Elliptically Hole Assisted Photonic Crystal Fiber (PCF). <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2189-2198.	1.8	18

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55	Design protein-protein interaction network and protein-drug interaction network for common cancer diseases: A bioinformatics approach. Informatics in Medicine Unlocked, 2020, 18, 100311.	3.4	12
56	Identification of the core ontologies and signature genes of polycystic ovary syndrome (PCOS): A bioinformatics analysis. Informatics in Medicine Unlocked, 2020, 18, 100304.	3.4	13
57	Design and performance evaluation of photonic crystal fibers of supporting orbital angular momentum states in optical transmission. Optics Communications, 2020, 467, 125731.	2.1	31
58	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.	3.3	27
59	Oligoporous-core Quasi cladding photonic crystal fiber based micro-sensor for alcohol detection. Physica B: Condensed Matter, 2020, 584, 412104.	2.7	6
60	Computational analysis of regulatory genes network pathways among devastating cancer diseases. Journal of Proteins and Proteomics, 2020, 11, 63-76.	1.5	1
61	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.	2.1	37
62	Analyzing the protein-protein interaction network and the topological properties of prostate cancer and allied diseases: A computational bioinformatics approach. Gene Reports, 2020, 21, 100842.	0.8	0
63	Drug compound prediction-based analysis of cigarette smoking to Pancreatic Cancer patients: A Bioinformatics study. , 2020, , .		1
64	A Bioinformatics Analysis to Identify Hub Genes from Protein-Protein Interaction Network for Cancer and Stress. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 671-679.	0.3	0
65	Analysis of topological properties and drug discovery for bipolar disorder and associated diseases: A bioinformatics approach. Cellular and Molecular Biology, 2020, 66, 152-160.	0.9	2
66	Non return to zero line coding with suppressed carrier in FSO transceiver systems under light rain conditions. Journal of Optical Communications, 2020, , .	4.7	7
67	Development of Photonic Crystal Fiber-Based Gas/Chemical Sensors. , 2019, , 287-317.		31
68	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.	2.0	10
69	The performance of hosting and core materials for slotted core Q-PCF in terahertz spectrum. Optik, 2019, 194, 163084.	2.9	22
70	Low insertion loss and high extinction ratio analysis of a new surface plasmon resonance based photonic crystal fiber filter. Optik, 2019, 194, 163069.	2.9	12
71	Surface Plasmon Resonance Based Titanium Coated Biosensor for Cancer Cell Detection. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	168
72	Quasi photonic crystal fiber for chemical sensing purpose in the terahertz regime: design and analysis. Optical and Quantum Electronics, 2019, 51, 1.	3.3	13

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73	Numerical demonstration of hexagonal-shaped dual-core-based photonic crystal fiber for a wide telecommunication window. <i>Journal of Computational Electronics</i> , 2019, 18, 1455-1468.	2.5	1
74	Popularity Prediction of Online News Item Based on Social Media Response. , 2019, , .		1
75	Highly birefringent TOPAS based single mode photonic crystal fiber with ultra-low material loss for Terahertz applications. <i>Optical Fiber Technology</i> , 2019, 53, 102031.	2.7	31
76	Potential therapeutic drugs for ischemic stroke and stress disorder: A bioinformatics analysis. <i>Informatics in Medicine Unlocked</i> , 2019, 17, 100259.	3.4	4
77	Extremely low loss optical waveguide for terahertz pulse guidance. <i>Results in Physics</i> , 2019, 15, 102666.	4.1	11
78	Refractive Index-Based Blood Components Sensing in Terahertz Spectrum. <i>IEEE Sensors Journal</i> , 2019, 19, 3368-3375.	4.7	131
79	Tetra-core surface plasmon resonance based biosensor for alcohol sensing. <i>Physica B: Condensed Matter</i> , 2019, 570, 48-52.	2.7	50
80	FEM analysis of birefringence, dispersion and nonlinearity of graphene coated photonic crystal fiber. <i>Ceramics International</i> , 2019, 45, 15343-15347.	4.8	41
81	Numerical analysis of a highly nonlinear microstructured optical fiber with air-holes arranged in spirals. <i>Optical Fiber Technology</i> , 2019, 51, 90-95.	2.7	7
82	Titanium-Coated Dual-Core D-Shaped SPR-Based PCF for Hemoglobin Sensing. <i>Plasmonics</i> , 2019, 14, 1601-1610.	3.4	42
83	A Novel Hexahedron Photonic Crystal Fiber in Terahertz Propagation: Design and Analysis. <i>Photonics</i> , 2019, 6, 32.	2.0	39
84	Common Gene Regulatory Network for Anxiety Disorder Using Cytoscape: Detection and Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 209-218.	1.3	2
85	Design of Ge ₂₀ Sb ₁₅ Se ₆₅ embedded rectangular slotted quasi photonic crystal fiber for higher nonlinearity applications. <i>Optik</i> , 2019, 184, 63-69.	2.9	12
86	Numerical evaluation of the performance of different materials in nonlinear optical applications. <i>Results in Physics</i> , 2019, 13, 102184.	4.1	16
87	Design of D-shaped elliptical core photonic crystal fiber for blood plasma cell sensing application. <i>Results in Physics</i> , 2019, 12, 2021-2025.	4.1	141
88	Topology Analysis of Protein-protein Interaction Network and Identification of Gene Ontology for Obstructive Sleep Apnea and Associated Diseases Using Bioinformatics Tools. , 2019, , .		0
89	Heptagonal Photonic Crystal Fiber Based Chemical Sensor in THz Regime. , 2019, , .		16
90	Multicore bi-layer gold-coated SPR-based sensor for simultaneous measurements of CFC and HCFC. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950316.	2.0	2

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109	Investigation of ultra-low loss surface plasmon resonance-based PCF for biosensing application. Results in Physics, 2018, 11, 358-361.	4.1	15
110	Quasi-Photonic Crystal Fiber-Based Spectroscopic Chemical Sensor in the Terahertz Spectrum: Design and Analysis. IEEE Sensors Journal, 2018, 18, 9948-9954.	4.7	75
111	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.	3.9	26
112	Dataset on significant risk factors for Type 1 Diabetes: A Bangladeshi perspective. Data in Brief, 2018, 21, 700-708.	1.0	5
113	Highly birefringent, low loss single-mode porous fiber for THz wave guidance. Results in Physics, 2018, 11, 549-553.	4.1	7
114	Low material loss and dispersion flattened fiber for single mode THz-wave transmission applications. Results in Physics, 2018, 11, 638-642.	4.1	7
115	Design and analysis of slotted core photonic crystal fiber for gas sensing application. Results in Physics, 2018, 11, 643-650.	4.1	49
116	Dataset of surface plasmon resonance based on photonic crystal fiber for chemical sensing applications. Data in Brief, 2018, 19, 76-81.	1.0	13
117	Nanoscale GaP strips based photonic crystal fiber with high nonlinearity and high numerical aperture for laser applications. Results in Physics, 2018, 10, 374-378.	4.1	36
118	Silicon nano crystal filled photonic crystal fiber for high nonlinearity. Optical Materials, 2018, 84, 545-549.	3.6	44
119	Chalcogenide embedded quasi photonic crystal fiber for nonlinear optical applications. Ceramics International, 2018, 44, 18955-18959.	4.8	34
120	Design and analysis of biosensor based on surface plasmon resonance. Sensing and Bio-Sensing Research, 2018, 21, 1-6.	4.2	40
121	Highly sensitive SPR based PCF for biological substance sensing: design and analysis. , 2018, , .		2
122	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.	5.0	50
123	Design of single mode spiral photonic crystal fiber for gas sensing applications. Sensing and Bio-Sensing Research, 2017, 13, 55-62.	4.2	49
124	Porous shaped photonic crystal fiber with strong confinement field in sensing applications: Design and analysis. Sensing and Bio-Sensing Research, 2017, 13, 63-69.	4.2	23
125	Highly birefringent single mode spiral shape photonic crystal fiber based sensor for gas sensing applications. Sensing and Bio-Sensing Research, 2017, 14, 30-38.	4.2	34
126	Dataset on photonic crystal fiber based chemical sensor. Data in Brief, 2017, 12, 227-233.	1.0	11

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127	Optimization and enhancement of liquid analyte sensing performance based on square-cored octagonal photonic crystal fiber. <i>Optik</i> , 2017, 131, 687-696.	2.9	69
128	Effect of photonic crystal fiber background materials in sensing and communication applications. <i>Materials Discovery</i> , 2017, 7, 8-14.	3.3	35
129	Design of highly sensible porous shaped photonic crystal fiber with strong confinement field for optical sensing. <i>Optik</i> , 2017, 142, 541-549.	2.9	41
130	Design and numerical analysis: Effect of core and cladding area on hybrid hexagonal microstructure optical fiber in environment pollution sensing applications. <i>Karbala International Journal of Modern Science</i> , 2017, 3, 29-38.	1.0	19
131	Alcohol sensing over O+E+S+C+L+U transmission band based on porous cored octagonal photonic crystal fiber. <i>Photonic Sensors</i> , 2017, 7, 123-130.	5.0	60
132	Folded cladding porous shaped photonic crystal fiber with high sensitivity in optical sensing applications: Design and analysis. <i>Sensing and Bio-Sensing Research</i> , 2017, 12, 36-42.	4.2	88
133	Single-mode spiral shape fiber based liquid sensor with ultra-high sensitivity and ultra-low loss: Design and analysis. <i>Karbala International Journal of Modern Science</i> , 2017, 3, 131-142.	1.0	15
134	Design and optimization of photonic crystal fiber based sensor for gas condensate and air pollution monitoring. <i>Photonic Sensors</i> , 2017, 7, 234-245.	5.0	26
135	Ultrahigh birefringence, ultralow material loss porous core single-mode fiber for terahertz wave guidance. <i>Applied Optics</i> , 2017, 56, 3477.	2.1	82
136	Design of a single-mode photonic crystal fibre with ultra-low material loss and large effective mode area in THz regime. <i>IET Optoelectronics</i> , 2017, 11, 265-271.	3.3	30
137	Design and Analysis of Single-Mode PCF in Optical Communication Covering E to L Bands with Ultra-High Negative Dispersion. <i>Ukrainian Journal of Physics</i> , 2017, 62, 818-826.	0.2	7
138	Hybrid photonic crystal fiber in chemical sensing. <i>SpringerPlus</i> , 2016, 5, 748.	1.2	103
139	Enhancement of sensitivity and birefringence of a gas sensor on micro-core based photonic crystal fiber. , 2016, , .		3
140	Porous core Photonic Crystal Fiber based chemical sensor. , 2016, , .		3
141	Proposal of a gas sensor with high sensitivity, birefringence and nonlinearity for air pollution monitoring. <i>Sensing and Bio-Sensing Research</i> , 2016, 10, 20-26.	4.2	78
142	Design and optimization of photonic crystal fiber for liquid sensing applications. <i>Photonic Sensors</i> , 2016, 6, 279-288.	5.0	119
143	Slotted-core photonic crystal fiber in gas-sensing application. , 2016, , .		8
144	Design and Optimization of Highly Sensitive Photonic Crystal Fiber with Low Confinement Loss for Ethanol Detection. <i>International Journal of Technology</i> , 2016, 7, 1068.	0.8	8

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145	Hazardous Consequences of Polygamy, Contraceptives and Number of Childs on cervical cancer in a low incoming country: Bangladesh. Cumhuriyet Aæniversitesi Fen Fakltesi Fen Bilimleri Dergisi, 2016, 37, 74.	0.1	2
146	Design of Simple Structure Gas Sensor Based on Hybrid Photonic Crystal Fiber. Cumhuriyet Aæniversitesi Fen Fakltesi Fen Bilimleri Dergisi, 2016, 37, 187.	0.1	8
147	Proposal of a simple structure photonic crystal fiber for lower indexed chemical sensing. , 2015, , .		13
148	Highly sensitive simple structure circular photonic crystal fiber based chemical sensor. , 2015, , .		29