

Mohammad Rakibul Islam

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,441
citations

304743

22
h-index

345221

36
g-index

61
all docs

61
docs citations

61
times ranked

441
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.	4.7	220
2	Extremely low material loss and dispersion flattened TOPAS based circular porous fiber for long distance terahertz wave transmission. Optical Fiber Technology, 2017, 34, 6-11.	2.7	83
3	Porous core photonic crystal fibre for ultra-low material loss in THz regime. IET Communications, 2016, 10, 2179-2183.	2.2	72
4	Zeonex-based asymmetrical terahertz photonic crystal fiber for multichannel communication and polarization maintaining applications. Applied Optics, 2018, 57, 666.	1.8	68
5	Ultra low-loss hybrid core porous fiber for broadband applications. Applied Optics, 2017, 56, 1232.	2.1	65
6	Exposed-core localized surface plasmon resonance biosensor. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2306.	2.1	64
7	Design and analysis of birefringent SPR based PCF biosensor with ultra-high sensitivity and low loss. Optik, 2020, 221, 165311.	2.9	43
8	Photonic crystal fiber based terahertz sensor for cholesterol detection in human blood and liquid foodstuffs. Sensing and Bio-Sensing Research, 2020, 29, 100356.	4.2	40
9	Extremely low-loss, dispersion flattened porous-core photonic crystal fiber for terahertz regime. Optical Engineering, 2016, 55, 076117.	1.0	38
10	Low loss and low dispersion hybrid core photonic crystal fiber for terahertz propagation. Photonic Network Communications, 2018, 35, 364-373.	2.7	38
11	Design of a fabrication friendly & highly sensitive surface plasmon resonance-based photonic crystal fiber biosensor. Results in Physics, 2020, 19, 103501.	4.1	38
12	Dual-polarized highly sensitive surface-plasmon-resonance-based chemical and biomolecular sensor. Applied Optics, 2020, 59, 3296.	1.8	38
13	Development of a photonic crystal fiber for THz wave guidance and environmental pollutants detection. Sensing and Bio-Sensing Research, 2020, 29, 100346.	4.2	37
14	Design and numerical analysis of a gold-coated photonic crystal fiber based refractive index sensor. Optical and Quantum Electronics, 2021, 53, 1.	3.3	35
15	A modified hexagonal photonic crystal fiber for terahertz applications. Optical Materials, 2018, 79, 336-339.	3.6	34
16	Design of a Topas-based ultrahigh-sensitive PCF biosensor for blood component detection. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	34
17	Square structured photonic crystal fiber based THz sensor design for human body protein detection. Journal of Computational Electronics, 2021, 20, 377-386.	2.5	31
18	Surface plasmon resonance based highly sensitive gold coated PCF biosensor. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	31

#	ARTICLE	IF	CITATIONS
19	A novel hollow core terahertz refractometric sensor. Sensing and Bio-Sensing Research, 2019, 25, 100295.	4.2	30
20	Highly birefringent gold-coated SPR sensor with extremely enhanced amplitude and wavelength sensitivity. European Physical Journal Plus, 2021, 136, 1.	2.6	29
21	Highly birefringent honeycomb cladding terahertz fiber for polarization-maintaining applications. Optical Engineering, 2020, 59, 1.	1.0	29
22	Design and analysis of a Zeonex based diamond-shaped core kagome lattice photonic crystal fiber for T-ray wave transmission. Optical Fiber Technology, 2019, 47, 55-60.	2.7	27
23	A novel Zeonex based photonic sensor for alcohol detection in beverages. , 2017, , .		26
24	Design and characterization of a circular sectored core cladding structured photonic crystal fiber with ultra-low EML and flattened dispersion in the THz regime. Optical Fiber Technology, 2020, 55, 102158.	2.7	24
25	AZO-coated plasmonic PCF nanosensor for blood constituent detection in near-infrared and visible spectrum. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	23
26	Design and Analysis of a Biochemical Sensor Based on Surface Plasmon Resonance with Ultra-high Sensitivity. Plasmonics, 2021, 16, 849-861.	3.4	22
27	Wheel structured Zeonex-based photonic crystal fiber sensor in THz regime for sensing milk. Applied Physics A: Materials Science and Processing, 2021, 127, 311.	2.3	21
28	Cooperative MIMO Communication at Wireless Sensor Network: An Error Correcting Code Approach. Sensors, 2011, 11, 9887-9903.	3.8	20
29	Design and analysis of a QC-SPR-PCF sensor for multipurpose sensing with supremely high FOM. Applied Nanoscience (Switzerland), 2022, 12, 29-45.	3.1	19
30	Refractometric THz Sensing of Blood Components in a Photonic Crystal Fiber Platform. Brazilian Journal of Physics, 2022, 52, 1.	1.4	18
31	Point of Care Detection of Blood Electrolytes and Glucose Utilizing Nano-Dot Enhanced Plasmonic Biosensor. IEEE Sensors Journal, 2021, 21, 17749-17757.	4.7	16
32	LSPR Based Double Peak Double Plasmonic Layered Bent Core PCF-SPR Sensor for Ultra-Broadband Dual Peak Sensing. IEEE Sensors Journal, 2022, 22, 5628-5635.	4.7	15
33	Chimp optimization algorithm in multilevel image thresholding and image clustering. Evolving Systems, 2023, 14, 605-648.	3.9	15
34	Low-Loss and Dispersion-Flattened Octagonal Porous Core PCF for Terahertz Transmission Applications. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 1583-1592.	2.3	13
35	On the cooperative MIMO communication for energy-efficient cluster-to-cluster transmission at wireless sensor network. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 325-340.	2.5	11
36	Trigonal cluster-based ultra-sensitive surface plasmon resonance sensor for multipurpose sensing. Sensing and Bio-Sensing Research, 2022, 35, 100477.	4.2	10

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37	A highly birefringent slotted-core THz fiber. , 2016, , .		7
38	A novel hollow core photonic sensor for liquid analyte detection in the terahertz spectrum: design and analysis. Optical and Quantum Electronics, 2020, 52, 1.	3.3	7
39	Design of a hexagonal outlined porous cladding with vacant core photonic crystal fibre biosensor for cyanide detection at THz regime. IET Optoelectronics, 2022, 16, 160-173.	3.3	7
40	Hollow core photonic crystal fiber for chemicals sensing in liquid analytes: Design and analysis. International Journal of Modern Physics B, 2020, 34, 2050259.	2.0	6
41	An Eye-Shaped Ultra-Sensitive Localized Surface Plasmon Resonance-Based Biochemical Sensor. Plasmonics, 2022, 17, 131-141.	3.4	6
42	Spider web ultrasensitive terahertz photonic crystal fiber for chemical sensing. Optical Engineering, 2020, 59, .	1.0	6
43	Design of a Dual Cluster and Dual Array-Based PCF-SPR Biosensor with Ultra-high WS and FOM. Plasmonics, 2022, 17, 1171-1182.	3.4	5
44	Extremely Low Effective Material Loss of Air Core Photonic Crystal Fiber for THz Guidance. , 2019, , .		4
45	Cooperative communication in wireless sensor network using low density parity check codes. , 2010, , .		3
46	Improvement in DRX Power Saving for Nonreal-Time Traffic in LTE. ETRI Journal, 2016, 38, 622.	2.0	3
47	Design and Characterization of an Ultra Low Loss, Dispersion-Flattened Slotted Photonic Crystal Fiber for Terahertz Application. Journal of Optical Communications, 2018, .	4.7	2
48	Design and analysis of a highly sensitive octagonal hollow core photonic crystal fiber for chemical sensing. Journal of Nanophotonics, 2020, 14, .	1.0	2
49	Energy efficient cluster to cluster communication for correlated data at wireless sensor network. , 2010, , .		1
50	Peak to average power reduction using precoding with clipping and filtering. , 2010, , .		1
51	Secret data communication in a degraded practical multiple input multiple output multiple eavesdropper channel. , 2010, , .		1
52	Intensity Reflection Coefficient Based Min-Sum Decoding for Low Density Parity Check Codes. Frequenz, 2012, 66, .	0.9	1
53	Non Binary SC-FDMA for 3GPP LTE uplink. , 2012, , .		1
54	Difference to sum ratio factor based min-sum decoding for Low Density Parity Check Codes. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Secret communication in wireless sensor network with perfect channel state information. , 2010, , .		0
56	Improved log domain decoding algorithm for LDPC codes over GF (q). , 2011, , .		0
57	Secrecy capacity analysis in a cooperative MIMO based wireless sensor network. , 2011, , .		0
58	Combined normalized and offset extended min sum decoding algorithm for LDPC codes over GF (q). , 2011, , .		0
59	Low loss rotated porous core octagonal single-mode fiber for THz radiation. , 2016, , .		0
60	Design and Investigation of a low-loss Surface Plasmon resonance based PCF biosensor with a gold coated structure. , 2020, , .		0
61	Highly Sensitive Hollow Core Photonic Crystal Fiber Based Methyl-Alcohol Detector for Liquid Analytes in THz Regime. , 2020, , .		0