Ahmmed A Rifat

List of Publications by Citations

60 papers	2,128 citations	23 h-index	45 g-index
69 ext. papers	2,832 ext. citations	3.3 avg, IF	5.39 L-index

#	Paper	IF	Citations
60	Photonic crystal fiber based plasmonic sensors. *Sensors and Actuators B: Chemical*, **2017**, 243, 311-325	8.5	190
59	Photonic crystal fiber-based surface plasmon resonance sensor with selective analyte channels and graphene-silver deposited core. *Sensors*, **2015**, 15, 11499-510	3.8	172
58	Highly sensitive multi-core flat fiber surface plasmon resonance refractive index sensor. *Optics Express*, **2016**, 24, 2485-95	3.3	155
57	Surface Plasmon Resonance Photonic Crystal Fiber Biosensor: A Practical Sensing Approach. *IEEE Photonics Technology Letters*, **2015**, 27, 1628-1631	2.2	137
56	Highly sensitive selectively coated photonic crystal fiber-based plasmonic sensor. *Optics Letters*, **2018**, 43, 891-894	3	135
55	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. *IEEE Sensors Journal*, **2018**, 18, 133-140	4	123
54	Highly Sensitive D-Shaped Photonic Crystal Fiber-Based Plasmonic Biosensor in Visible to Near-IR. *IEEE Sensors Journal*, **2017**, 17, 2776-2783	4	108
53	Dual-polarized highly sensitive plasmonic sensor in the visible to near-IR spectrum. *Optics Express*, **2018**, 26, 30347-30361	3.3	99
52	Copper-Graphene-Based Photonic Crystal Fiber Plasmonic Biosensor. *IEEE Photonics Journal*, **2016**, 8, 1-8	1.8	93
51	Terahertz Sensing in a Hollow Core Photonic Crystal Fiber. *IEEE Sensors Journal*, **2018**, 18, 4073-4080	4	72
50	A Novel Photonic Crystal Fiber Biosensor Using Surface Plasmon Resonance. *Procedia Engineering*, **2016**, 140, 1-7		69
49	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. *IEEE Access*, **2019**, 7, 79085-79094	3.5	67
48	A Highly Sensitive Gold-Coated Photonic Crystal Fiber Biosensor Based on Surface Plasmon Resonance. *Photonics*, **2017**, 4, 18	2.2	62
47	Highly amplitude-sensitive photonic-crystal-fiber-based plasmonic sensor. *Journal of the Optical Society of America B: Optical Physics*, **2018**, 35, 2816	1.7	44
46	Optical microring resonator based corrosion sensing. *RSC Advances*, **2016**, 6, 56127-56133	3.7	42
45	Photonic crystal fiber-based plasmonic biosensor with external sensing approach. *Journal of Nanophotonics*, **2017**, 12, 012503	1.1	39
44	A single mode porous-core square lattice photonic crystal fiber for THz wave propagation. *Journal of the European Optical Society-Rapid Publications*, **2016**, 12,	2.5	35

43	Functionalized Flexible Soft Polymer Optical Fibers for Laser Photomedicine. *Advanced Optical Materials*, **2018**, 6, 1701118	8.1	34
42	Hybrid Metasurface Based Tunable Near-Perfect Absorber and Plasmonic Sensor. *Materials*, **2018**, 11,	3.5	34
41	Localized surface plasmon resonance biosensor: an improved technique for SERS response intensification. *Optics Letters*, **2019**, 44, 1134-1137	3	34
40	High-Efficiency Visible Light Manipulation Using Dielectric Metasurfaces. *Scientific Reports*, **2019**, 9, 6510	4.9	33
39	A single-mode highly birefringent dispersion-compensating photonic crystal fiber using hybrid cladding. *Journal of Modern Optics*, **2017**, 64, 218-225	1.1	33
38	Propagation Controlled Photonic Crystal Fiber-Based Plasmonic Sensor via Scaled-Down Approach. *IEEE Sensors Journal*, **2019**, 19, 962-969	4	29
37	Dual-hole unit-based kagome lattice microstructure fiber for low-loss and highly birefringent terahertz guidance. *Optical Engineering*, **2017**, 56, 043108	1.1	23
36	Design and fabrication of copper-filled photonic crystal fiber based polarization filters. *Applied Optics*, **2019**, 58, 2068-2075	1.7	21
35	Multimode waveguide based directional coupler. *Optics Communications*, **2016**, 370, 183-191	2	19
34	Mode-multiplex plasmonic sensor for multi-analyte detection. *Optics Letters*, **2020**, 45, 3945-3948	3	18
33	Development of Photonic Crystal Fiber-Based Gas/Chemical Sensors **2019**, 287-317		16
32	A Novel Diamond Ring Fiber-Based Surface Plasmon Resonance Sensor. *Plasmonics*, **2018**, 13, 1165-1170	2.4	15
31	butterfly-inspired optical diffraction, diffusion, and bio-chemical sensing.. *RSC Advances*, **2018**, 8, 27111-27118	3.7	14
30	Mode-multiplexed waveguide sensor. *Journal of Electromagnetic Waves and Applications*, **2016**, 30, 444-455	1.3	13
29	Deeply Subwavelength Metasurface Resonators for Terahertz Wavefront Manipulation. *Advanced Optical Materials*, **2019**, 7, 1900736	8.1	13
28	Design, Simulation & Optimization of 2D Photonic Crystal Power Splitter. *Optics and Photonics Journal*, **2013**, 03, 13-19	0.3	12
27	Multiwall carbon nanotube microcavity arrays. *Journal of Applied Physics*, **2016**, 119, 113105	2.5	12
26	Edge Detection with Mie-Resonant Dielectric Metasurfaces. *ACS Photonics*, **2021**, 8, 864-871	6.3	11

25	Microstructured Optical Fiber-Based Plasmonic Sensors **2019**, 203-232		10
24	Design of large negative dispersion and modal analysis for hexagonal, square, FCC and BCC photonic crystal fibers **2013**,		8
23	Alphabetic-Core Assisted Microstructure Fiber Based Plasmonic Biosensor. *Plasmonics*, **2020**, 15, 1949-1958	2.4	7
22	Phase-conjugated directional diffraction from a retroreflector array hologram. *RSC Advances*, **2017**, 7, 25657-25664	3.7	7
21	Highly Sensitive U-Shaped Micro-channel Photonic Crystal Fiber Based Plasmonic Biosensor. *Plasmonics*, **2021**, 16, 2215	2.4	7
20	Plasmonic micro-channel based highly sensitive biosensor in visible to mid-IR. *Optics and Laser Technology*, **2021**, 140, 107020	4.2	7
19	Asymmetric core-guided polarization-dependent plasmonic biosensor. *Applied Optics*, **2020**, 59, 7829-7835	1.7	6
18	Dual-Region Resonant Meander Metamaterial. *Advanced Optical Materials*, **2020**, 8, 1901658	8.1	5
17	SOI Waveguide-Based Biochemical Sensors **2019**, 423-448		5
16	Design and Simulation of Duel-Concentric-Core Photonic Crystal Fiber for Dispersion Compensation **2013**,		5
15	Photonic crystal fiber-based plasmonic biosensor with external sensing approach (erratum). *Journal of Nanophotonics*, **2017**, 12, 1	1.1	4
14	Bio-inspired butterfly core-shaped photonic crystal fiber-based refractive index sensor. *OSA Continuum*, **2021**, 4, 1179	1.4	4
13	Multi-Analyte Detection Based on Integrated Internal and External Sensing Approach. *IEEE Transactions on Nanobioscience*, **2021**, PP,	3.4	4
12	High Fluence Chromium and Tungsten Bowtie Nano-antennas. *Scientific Reports*, **2019**, 9, 13023	4.9	3
11	Graphene-Reinforced Advanced Composite Materials **2019**, 27-89		3
10	Resonant Dielectric Metagratings for Response Intensified Optical Sensing. *Advanced Functional Materials*, **2021**, 2103143	15.6	3
9	Twin-core sunflower-type photonic quasicrystal fibers incorporated gold, silver, and copper microwire: an ultrashort and broad bandwidth polarization splitter. *Optical and Quantum Electronics* , **2019**, 51, 1	2.4	2
8	Diamond ring fiber for evanescent field exposure. *Optics Letters*, **2017**, 42, 1544-1547	3	2

7	Design & Analysis of Optical Lenses by using 2D Photonic Crystals for Sub-wavelength Focusing. *International Journal of Advanced Computer Science and Applications*, **2012**, 3,	1.7	2
6	Enhancement of evanescent field exposure in a photonic crystal fibre with interstitial holes. *Journal of Modern Optics*, **2017**, 64, 1544-1549	1.1	1
5	Design of Ultra-flattened Zero Dispersion Shifted Photonic Crystal Fibers with Lower Confinement Loss for Telecommunication Applications **2013**,		1
4	Highly Sensitive Resonant Dielectric Metagrating Sensors **2021**,		1
3	Highly Sensitive Plasmonic Metasensor with Wide Detection Range **2018**,		1
2	U-grooved dual-channel plasmonic sensor for simultaneous multi-analyte detection. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, 3055	1.7	1
1	Enhanced four-wave mixing from multi-resonant silicon dimer-hole membrane metasurfaces. *New Journal of Physics*, **2022**, 24, 035002	2.9	1