Rajib Ahmed

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	2,124 citations	331670 21 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	1706 citing authors

#	Article	IF	Citations
1	Photonic crystal fiber based plasmonic sensors. Sensors and Actuators B: Chemical, 2017, 243, 311-325.	7.8	303
2	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. IEEE Sensors Journal, 2018, 18, 133-140.	4.7	216
3	Highly Sensitive D-Shaped Photonic Crystal Fiber-Based Plasmonic Biosensor in Visible to Near-IR. IEEE Sensors Journal, 2017, 17, 2776-2783.	4.7	191
4	Highly sensitive selectively coated photonic crystal fiber-based plasmonic sensor. Optics Letters, 2018, 43, 891.	3.3	189
5	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. IEEE Access, 2019, 7, 79085-79094.	4.2	116
6	Lateral and Vertical Flow Assays for Pointâ€ofâ€Care Diagnostics. Advanced Healthcare Materials, 2019, 8, e1900244.	7.6	115
7	Advanced Pointâ€ofâ€Care Testing Technologies for Human Acute Respiratory Virus Detection. Advanced Materials, 2022, 34, e2103646.	21.0	92
8	Photonic crystal fiber-based plasmonic biosensor with external sensing approach. Journal of Nanophotonics, 2017, 12, 012503.	1.0	64
9	Engineering Hydrogelâ€Based Biomedical Photonics: Design, Fabrication, and Applications. Advanced Materials, 2021, 33, e2006582.	21.0	62
10	Tunable Fanoâ€Resonant Metasurfaces on a Disposable Plasticâ€Template for Multimodal and Multiplex Biosensing. Advanced Materials, 2020, 32, e1907160.	21.0	56
11	Propagation Controlled Photonic Crystal Fiber-Based Plasmonic Sensor <italic>via</italic> Scaled-Down Approach. IEEE Sensors Journal, 2019, 19, 962-969.	4.7	53
12	Color-selective holographic retroreflector array for sensing applications. Light: Science and Applications, 2017, 6, e16214-e16214.	16.6	49
13	Colorâ€Selective 2.5D Holograms on Largeâ€Area Flexible Substrates for Sensing and Multilevel Security. Advanced Optical Materials, 2016, 4, 1589-1600.	7.3	48
14	Functionalized Flexible Soft Polymer Optical Fibers for Laser Photomedicine. Advanced Optical Materials, 2018, 6, 1701118.	7.3	48
15	Optical microring resonator based corrosion sensing. RSC Advances, 2016, 6, 56127-56133.	3.6	47
16	High Numerical Aperture Hexagonal Stacked Ring-Based Bidirectional Flexible Polymer Microlens Array. ACS Nano, 2017, 11, 3155-3165.	14.6	43
17	Mode-multiplex plasmonic sensor for multi-analyte detection. Optics Letters, 2020, 45, 3945.	3.3	36
18	Diagnosis for COVID-19: current status and future prospects. Expert Review of Molecular Diagnostics, 2021, 21, 269-288.	3.1	29

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19	Multi-Analyte Detection Based on Integrated Internal and External Sensing Approach. IEEE Transactions on Nanobioscience, 2022, 21, 29-36.	3.3	27
20	Printable ink lenses, diffusers, and 2D gratings. Nanoscale, 2017, 9, 266-276.	5.6	25
21	Wearable Collector for Noninvasive Sampling of SARS-CoV-2 from Exhaled Breath for Rapid Detection. ACS Applied Materials & Interfaces, 2021, 13, 41445-41453.	8.0	24
22	Alphabetic-Core Assisted Microstructure Fiber Based Plasmonic Biosensor. Plasmonics, 2020, 15, 1949-1958.	3.4	22
23	Engineering Polysaccharideâ€Based Hydrogel Photonic Constructs: From Multiscale Detection to the Biofabrication of Living Optical Fibers. Advanced Materials, 2021, 33, e2105361.	21.0	21
24	Highly Sensitive U-Shaped Micro-channel Photonic Crystal Fiberâ€“Based Plasmonic Biosensor. Plasmonics, 2021, 16, 2215-2223.	3.4	20
25	Morpho butterfly-inspired optical diffraction, diffusion, and bio-chemical sensing. RSC Advances, 2018, 8, 27111-27118.	3.6	18
26	Management of COVID-19: current status and future prospects. Microbes and Infection, 2021, 23, 104832.	1.9	18
27	Plasmonic Micro-Channel Assisted Photonic Crystal Fiber Based Highly Sensitive Sensor for Multi-Analyte Detection. Nanomaterials, 2022, 12, 1444.	4.1	18
28	Holographic direct pulsed laser writing of two-dimensional nanostructures. RSC Advances, 2016, 6, 111269-111275.	3.6	17
29	Remote Thermal Sensing by Integration of Cornerâ€Cube Optics and Thermochromic Materials. Advanced Optical Materials, 2019, 7, 1801013.	7.3	16
30	Design, Simulation & Optimization of 2D Photonic Crystal Power Splitter. Optics and Photonics Journal, 2013, 03, 13-19.	0.4	16
31	Photonic crystal fiber-based plasmonic biosensor with external sensing approach (erratum). Journal of Nanophotonics, 2017, 12, 1.	1.0	14
32	Strainâ€Multiplex Metalens Array for Tunable Focusing and Imaging. Advanced Science, 2021, 8, 2003394.	11.2	13
33	Holographic Writing of Ink-Based Phase Conjugate Nanostructures via Laser Ablation. Scientific Reports, 2017, 7, 10603.	3.3	12
34	U-grooved dual-channel plasmonic sensor for simultaneous multi-analyte detection. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3055.	2.1	11
35	Flexible corner cube retroreflector array for temperature and strain sensing. RSC Advances, 2018, 8, 7588-7598.	3.6	9
36	Acoustic Fabrication of Living Cardiomyocyte-based Hybrid Biorobots. ACS Nano, 2022, 16, 10219-10230.	14.6	9

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37	Diffractive Surface Patterns through Single-Shot Nanosecond-Pulsed Laser Ablation. ACS Photonics, 2019, 6, 1572-1580.	6.6	8
38	Graphene based hyperbolic metamaterial for tunable mid-infrared biosensing. RSC Advances, 2021, 11, 7938-7945.	3.6	8
39	Bio-inspired butterfly core-shaped photonic crystal fiber-based refractive index sensor. OSA Continuum, 2021, 4, 1179.	1.8	8
40	Phase-conjugated directional diffraction from a retroreflector array hologram. RSC Advances, 2017, 7, 25657-25664.	3.6	7
41	Engineering the Interaction Dynamics between Nanoâ€Topographical Immunocyteâ€Templated Micromotors across Scales from Ions to Cells. Small, 2020, 16, 2005185.	10.0	7
42	Colonoscopy technologies for diagnostics and drug delivery. Medical Devices & Sensors, 2019, 2, e10041.	2.7	4
43	Dual polarized surface plasmon resonance refractive index sensor via decentering propagation-controlled core sensor. , 2022, 1, 1474.		4
44	A 1.55 Î¼m Wideband 1 Ã— 2 Photonic Power Splitter With Arbitrary Ratio: Characterization and Forward Modeling. IEEE Access, 2022, 10, 20149-20158.	4.2	2
45	Biosensing: Tunable Fanoâ€Resonant Metasurfaces on a Disposable Plasticâ€Template for Multimodal and Multiplex Biosensing (Adv. Mater. 19/2020). Advanced Materials, 2020, 32, 2070151.	21.0	1
46	Strain -multiplexing optical-tuning based on single-pulsed holographic nanostructures. Nanoscale, 2021, 13, 14609-14620.	5.6	1
47	Micromotors: Engineering the Interaction Dynamics between Nanoâ€Topographical Immunocyteâ€Templated Micromotors across Scales from Ions to Cells (Small 49/2020). Small, 2020, 16, 2070265.	10.0	0