

Md Azahar Ali

List of Publications by Year in descending order

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58
papers

3,045
citations

126907

33
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

3749
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. <i>Nanoscale</i> , 2013, 5, 3043.	5.6	158
2	Microfluidic Immuno-Biochip for Detection of Breast Cancer Biomarkers Using Hierarchical Composite of Porous Graphene and Titanium Dioxide Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20570-20582.	8.0	157
3	Microfluidic integrated biosensors: Prospects for point-of-care diagnostics. <i>Biotechnology Journal</i> , 2013, 8, 1267-1279.	3.5	147
4	Carboxylated multiwalled carbon nanotubes based biosensor for aflatoxin detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 258-264.	7.8	138
5	Highly Sensitive Biofunctionalized Mesoporous Electrospun TiO ₂ Nanofiber Based Interface for Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2516-2527.	8.0	136
6	Microfluidic impedimetric sensor for soil nitrate detection using graphene oxide and conductive nanofibers enabled sensing interface. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1289-1299.	7.8	115
7	Anti-epidermal growth factor receptor conjugated mesoporous zinc oxide nanofibers for breast cancer diagnostics. <i>Nanoscale</i> , 2015, 7, 7234-7245.	5.6	107
8	Nanostructured zinc oxide film for urea sensor. <i>Materials Letters</i> , 2009, 63, 2473-2475.	2.6	100
9	Nanomaterial-Based Biosensors for Food Toxin Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 880-896.	2.9	94
10	Tyrosinase conjugated reduced graphene oxide based biointerface for bisphenol A sensor. <i>Biosensors and Bioelectronics</i> , 2015, 74, 644-651.	10.1	80
11	Lipid-Lipid Interactions in Aminated Reduced Graphene Oxide Interface for Biosensing Application. <i>Langmuir</i> , 2014, 30, 4192-4201.	3.5	75
12	Continuous Monitoring of Soil Nitrate Using a Miniature Sensor with Poly(3-octyl-thiophene) and Molybdenum Disulfide Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29195-29206.	8.0	66
13	Highly sensitive porous carbon and metal/carbon conducting nanofiber based enzymatic biosensors for triglyceride detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 202-214.	7.8	65
14	Mediator-free microfluidics biosensor based on titania-zirconia nanocomposite for urea detection. <i>RSC Advances</i> , 2013, 3, 228-235.	3.6	64
15	An optofluidic metasurface for lateral flow-through detection of breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2018, 107, 224-229.	10.1	64
16	A highly efficient microfluidic nano biochip based on nanostructured nickel oxide. <i>Nanoscale</i> , 2013, 5, 2883.	5.6	63
17	Microporous Nanocomposite Enabled Microfluidic Biochip for Cardiac Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33576-33588.	8.0	63
18	Graphene Oxide-Based Biosensor for Food Toxin Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 960-970.	2.9	60

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19	Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B ₁ detection. RSC Advances, 2015, 5, 5406-5414.	3.6	59
20	Protein Functionalized Carbon Nanotubes-based Smart Lab-on-a-Chip. ACS Applied Materials & Interfaces, 2015, 7, 5837-5846.	8.0	58
21	In situ integration of graphene foam-titanium nitride based bio-scaffolds and microfluidic structures for soil nutrient sensors. Lab on A Chip, 2017, 17, 274-285.	6.0	57
22	Functionalized MoS ₂ nanosheets assembled microfluidic immunosensor for highly sensitive detection of food pathogen. Sensors and Actuators B: Chemical, 2018, 259, 1090-1098.	7.8	57
23	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. ACS Applied Materials & Interfaces, 2016, 8, 7646-7656.	8.0	50
24	Nanostructured anatase-titanium dioxide based platform for application to microfluidics cholesterol biosensor. Applied Physics Letters, 2012, 101, 084105.	3.3	46
25	Molecularly imprinted polyaniline-polyvinyl sulphonic acid composite based sensor for para-nitrophenol detection. Analytica Chimica Acta, 2013, 777, 63-71.	5.4	43
26	Electrophoretically deposited CdS quantum dots based electrode for biosensor application. Journal of Materials Chemistry, 2012, 22, 4970.	6.7	40
27	Protein-Conjugated Quantum Dots Interface: Binding Kinetics and Label-Free Lipid Detection. Analytical Chemistry, 2014, 86, 1710-1718.	6.5	40
28	Green Synthesis of Graphene Based Biomaterial Using Fenugreek Seeds for Lipid Detection. ACS Sustainable Chemistry and Engineering, 2016, 4, 871-880.	6.7	40
29	A self assembled monolayer based microfluidic sensor for urea detection. Nanoscale, 2011, 3, 2971.	5.6	38
30	A chitosan modified nickel oxide platform for biosensing applications. Journal of Materials Chemistry B, 2015, 3, 6698-6708.	5.8	37
31	Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing. Sensors and Actuators B: Chemical, 2016, 229, 82-91.	7.8	37
32	A hollow-nanosphere-based microfluidic biosensor for biomonitoring of cardiac troponin I. Journal of Materials Chemistry B, 2019, 7, 3826-3839.	5.8	36
33	Dual-modality microfluidic biosensor based on nanoengineered mesoporous graphene hydrogels. Lab on A Chip, 2020, 20, 760-777.	6.0	36
34	Tunable bioelectrodes with wrinkled-ridged graphene oxide surfaces for electrochemical nitrate sensors. RSC Advances, 2016, 6, 67184-67195.	3.6	35
35	Amperometric enzymatic determination of bisphenol A using an ITO electrode modified with reduced graphene oxide and Mn ₃ O ₄ nanoparticles in a chitosan matrix. Mikrochimica Acta, 2017, 184, 1809-1816.	5.0	35
36	Biocompatible nanostructured magnesium oxide-chitosan platform for genosensing application. Biosensors and Bioelectronics, 2013, 45, 181-188.	10.1	33

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37	Self assembled DC sputtered nanostructured rutile TiO ₂ platform for bisphenol A detection. <i>Biosensors and Bioelectronics</i> , 2015, 68, 633-641.	10.1	33
38	Integrated dual-modality microfluidic sensor for biomarker detection using lithographic plasmonic crystal. <i>Lab on A Chip</i> , 2018, 18, 803-817.	6.0	33
39	A surface functionalized nanoporous titania integrated microfluidic biochip. <i>Nanoscale</i> , 2014, 6, 13958-13969.	5.6	31
40	Graphene oxide-metal nanocomposites for cancer biomarker detection. <i>RSC Advances</i> , 2017, 7, 35982-35991.	3.6	30
41	Polyaniline-Carboxymethyl Cellulose Nanocomposite for Cholesterol Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6479-6488.	0.9	29
42	Application of Functionalized Graphene Oxide Based Biosensors for Health Monitoring: Simple Graphene Derivatives to 3D Printed Platforms. <i>Biosensors</i> , 2021, 11, 384.	4.7	29
43	Mediator-free biosensor using chitosan capped CdS quantum dots for detection of total cholesterol. <i>RSC Advances</i> , 2015, 5, 45928-45934.	3.6	27
44	Integrated Microfluidic Flow-Through Microbial Fuel Cells. <i>Scientific Reports</i> , 2017, 7, 41208.	3.3	26
45	Quantum dot-based microfluidic biosensor for cancer detection. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	25
46	Chitosan-Modified Carbon Nanotubes-Based Platform for Low-Density Lipoprotein Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 926-935.	2.9	24
47	Reduced graphene oxide-titania based platform for label-free biosensor. <i>RSC Advances</i> , 2014, 4, 60386-60396.	3.6	24
48	The revolution of PDMS microfluidics in cellular biology. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 465-483.	9.0	24
49	A biofunctionalized quantum dot-nickel oxide nanorod based smart platform for lipid detection. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2706-2714.	5.8	22
50	Antibody conjugated metal nanoparticle decorated graphene sheets for a mycotoxin sensor. <i>RSC Advances</i> , 2016, 6, 56518-56526.	3.6	21
51	Nanostructured CeO ₂ :Ag platform for electrochemically sensitive detection of nitrophenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126116.	4.7	20
52	Magnesium oxide grafted carbon nanotubes based impedimetric genosensor for biomedical application. <i>Biosensors and Bioelectronics</i> , 2013, 50, 406-413.	10.1	19
53	In-situ electrosynthesized nanostructured Mn ₃ O ₄ -polyaniline nanofibers- biointerface for endocrine disrupting chemical detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 781-793.	7.8	19
54	Highly sensitive biofunctionalized nickel oxide nanowires for nanobiosensing applications. <i>RSC Advances</i> , 2013, 3, 16060.	3.6	18

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55	MoS ₂ Nanosheet-Modified NiO Layers on a Conducting Carbon Paper for Glucose Sensing. ACS Applied Nano Materials, 2021, 4, 6609-6619.	5.0	18
56	A Label-Free Photoluminescence Genosensor Using Nanostructured Magnesium Oxide for Cholera Detection. Scientific Reports, 2015, 5, 17384.	3.3	16
57	Nanostructured magnesium oxide biosensing platform for cholera detection. Applied Physics Letters, 2013, 102, 144106.	3.3	13
58	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. Journal of Physical Chemistry C, 2014, 118, 6261-6271.	3.1	12