

Rahman Mohammad Mahbubur

List of Publications by Year in descending order

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63
papers

2,685
citations

236612

25
h-index

182168

51
g-index

66
all docs

66
docs citations

66
times ranked

3699
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review of Glucose Biosensors Based on Nanostructured Metal-Oxides. <i>Sensors</i> , 2010, 10, 4855-4886.	2.1	718
2	Recent advances of electrochemical and optical enzyme-free glucose sensors operating at physiological conditions. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112331.	5.3	196
3	Highly sensitive and simultaneous determination of hydroquinone and catechol at poly(thionine) modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2011, 56, 5266-5271.	2.6	177
4	A base-stable metal-organic framework for sensitive and non-enzymatic electrochemical detection of hydrogen peroxide. <i>Electrochimica Acta</i> , 2018, 274, 49-56.	2.6	87
5	Label-free aptasensor for the detection of cardiac biomarker myoglobin based on gold nanoparticles decorated boron nitride nanosheets. <i>Biosensors and Bioelectronics</i> , 2019, 126, 143-150.	5.3	85
6	A cholesterol biosensor based on a bi-enzyme immobilized on conducting poly(thionine) film. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 536-542.	4.0	84
7	Electrochemical DNA Hybridization Sensors Based on Conducting Polymers. <i>Sensors</i> , 2015, 15, 3801-3829.	2.1	72
8	A Ni-based redox-active metal-organic framework for sensitive and non-enzymatic detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2018, 822, 43-49.	1.9	72
9	Highly sensitive and simultaneous detection of dopamine and uric acid at graphene nanoplatelet-modified fluorine-doped tin oxide electrode in the presence of ascorbic acid. <i>Journal of Electroanalytical Chemistry</i> , 2017, 792, 54-60.	1.9	68
10	Simple, low-cost, sensitive and label-free aptasensor for the detection of cardiac troponin I based on a gold nanoparticles modified titanium foil. <i>Biosensors and Bioelectronics</i> , 2019, 126, 381-388.	5.3	65
11	Remarkable Conductivity of a Self-Healing Single-Ion Conducting Polymer Electrolyte, Poly(ethylene-co-acrylic lithium (fluoro sulfonyl)imide), for All-Solid-State Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34930-34938.	4.0	57
12	Highly Sensitive and Selective Detection of Dopamine at Poly(chromotrope 2B)-Modified Glassy Carbon Electrode in the Presence of Uric Acid and Ascorbic Acid. <i>Electrochimica Acta</i> , 2015, 173, 440-447.	2.6	55
13	Selective detection of L-tyrosine in the presence of ascorbic acid, dopamine, and uric acid at poly(thionine)-modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 87-93.	1.9	47
14	Electrochemical Impedance Spectroscopic Analysis of Sensitization-Based Solar Cells. <i>Israel Journal of Chemistry</i> , 2015, 55, 990-1001.	1.0	45
15	Synthesis of Cu-Doped Mn ₃ O ₄ @Mn-Doped CuO Nanostructured Electrode Materials by a Solution Process for High-Performance Electrochemical Pseudocapacitors. <i>ACS Omega</i> , 2020, 5, 22356-22366.	1.6	39
16	Enhanced photoresponse in dye-sensitized solar cells via localized surface plasmon resonance through highly stable nickel nanoparticles. <i>Nanoscale</i> , 2016, 8, 5884-5891.	2.8	36
17	Comparative study of sulfonated branched and linear poly(phenylene)s polymer electrolyte membranes for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5374-5385.	3.8	35
18	A chemically and electrochemically stable, redox-active and highly sensitive metal azolate framework for non-enzymatic electrochemical detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 263-271.	1.9	34

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19	Electrochemical synthesis of titanium nitride nanoparticles onto titanium foil for electrochemical supercapacitors with ultrafast charge/discharge. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2480-2490.	2.5	34
20	Highly stable and conductive PEDOT:PSS/graphene nanocomposites for biosensor applications in aqueous medium. <i>New Journal of Chemistry</i> , 2017, 41, 15458-15465.	1.4	33
21	Template-free synthesis of two-dimensional titania/titanate nanosheets as electrodes for high-performance supercapacitor applications. <i>Journal of Power Sources</i> , 2017, 372, 227-234.	4.0	33
22	In-situ synthesis of gold nanocrystals anchored graphene oxide and its application in biosensor and chemical sensor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 329-337.	1.9	30
23	Electrodeposition of Cu ₂ S nanoparticles on fluorine-doped tin oxide for efficient counter electrode of quantum-dot-sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 185-191.	2.9	29
24	Annealing-Free Synthesis of K-doped Mixed-Phase TiO ₂ Nanofibers on Ti Foil for Electrochemical Supercapacitor. <i>Electrochimica Acta</i> , 2017, 253, 563-571.	2.6	28
25	Conducting poly(aniline blue)-gold nanoparticles composite modified fluorine-doped tin oxide electrode for sensitive and non-enzymatic electrochemical detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2019, 850, 113394.	1.9	26
26	̂±-MnO ₂ nanorod/boron nitride nanoplatelet composites for high-performance nanoscale dielectric pseudocapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 115-123.	2.9	26
27	An Electrochemical Immunosensor Based on a Self-Assembled Monolayer Modified Electrode for Label-Free Detection of ̂±-Synuclein. <i>Sensors</i> , 2020, 20, 617.	2.1	26
28	Ultrasensitive and label-free detection of annexin A3 based on quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 172-177.	4.0	25
29	A glassy carbon electrode modified with poly(2,4-dinitrophenylhydrazine) for simultaneous detection of dihydroxybenzene isomers. <i>Mikrochimica Acta</i> , 2018, 185, 23.	2.5	24
30	2D metal azolate framework as nanozyme for amperometric detection of glucose at physiological pH and alkaline medium. <i>Mikrochimica Acta</i> , 2021, 188, 77.	2.5	24
31	Label-Free Detection of DNA Hybridization by Using Charge Perturbation on Poly(thionine)-Modified Glassy Carbon and Gold Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, B159-B162.	1.3	22
32	Electrodeposition of Gold on Fluorine-Doped Tin Oxide: Characterization and Application for Catalytic Oxidation of Nitrite. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 2072-2076.	1.0	22
33	Novel energy relay dyes for high efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 3526-3531.	2.8	20
34	In-situ electrochemical deposition of dendritic Cu-Cu ₂ S nanocomposites onto glassy carbon electrode for sensitive and non-enzymatic detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113177.	1.9	20
35	Highly conductive and stable graphene/PEDOT:PSS composite as a metal free cathode for organic dye-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 19058-19066.	1.7	19
36	A calcium doped binary strontium-copper oxide electrode material for high-performance supercapacitors. <i>Materials Science in Semiconductor Processing</i> , 2019, 90, 245-251.	1.9	19

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37	A facile template-free chemical synthesis of poly(thionine) nanowires. <i>Chemical Physics Letters</i> , 2013, 559, 56-60.	1.2	18
38	Novel divalent organo-lithium salts with high electrochemical and thermal stability for aqueous rechargeable Li-Ion batteries. <i>Electrochimica Acta</i> , 2019, 298, 709-716.	2.6	18
39	Label-Free DNA Hybridization Detection by Poly(Thionine)-Gold Nanocomposite on Indium Tin Oxide Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, B153-B157.	1.3	17
40	Synthesis and electrochemical performance of an imidazolium based Li salt as electrolyte with Li fluorinated sulfonylimides as additives for Li-Ion batteries. <i>Electrochimica Acta</i> , 2019, 302, 161-168.	2.6	16
41	Binary strontium-copper oxide nanostructures doped with potassium as electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21269-21277.	1.1	15
42	Simultaneous and Interference-Free Detection of Hydroquinone and Catechol on Poly (Evans) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 542	1.3	14
43	A Conducting Poly(N-(1-Naphthyl)ethylenediamine dihydrochloride) Nanofibers for the Sensitive and Interference-Free Detection of Dopamine. <i>Journal of the Electrochemical Society</i> , 2018, 165, B89-B95.	1.3	14
44	Trimethylsulfonium lead triiodide (TMSPbI ₃) for moisture-stable perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4327-4335.	2.5	11
45	A highly sensitive poly(chrysoidine G)-gold nanoparticle composite based nitrite sensor for food safety applications. <i>Analytical Methods</i> , 2020, 12, 5562-5571.	1.3	11
46	Low-Cost and Efficient Nickel Nitroprusside/Graphene Nanohybrid Electrocatalysts as Counter Electrodes for Dye-Sensitized Solar Cells. <i>Materials</i> , 2021, 14, 6563.	1.3	10
47	A Poly(trypan blue)-Modified Anodized Glassy Carbon Electrode for the Sensitive Detection of Dopamine in the Presence of Uric Acid and Ascorbic Acid. <i>Journal of the Electrochemical Society</i> , 2017, 164, B34-B39.	1.3	8
48	A non-absorbing organic redox couple for sensitization-based solar cells with metal-free polymer counter electrode. <i>Electrochimica Acta</i> , 2018, 286, 39-46.	2.6	8
49	Synthesis of an imidazolium functionalized imide based electrolyte salt and its electrochemical performance enhancement with additives in li-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 178-185.	2.9	8
50	A two-step approach for improved exfoliation and cutting of boron nitride into boron nitride nanodisks with covalent functionalizations. <i>Nanotechnology</i> , 2020, 31, 425604.	1.3	8
51	Sodium-Doped Binary Strontium-Copper Oxide as a High-Performance Electrochemical Pseudocapacitive Electrode Material. <i>Journal of the Electrochemical Society</i> , 2020, 167, 126516.	1.3	8
52	Effect of Nitrite and Nitrate as the Source of OH Radical in the O ₃ /UV Process with or without Benzene. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3039-3044.	1.0	8
53	Self-Therapeutic Cobalt Hydroxide Nanosheets (Co(OH) ₂ NS) for Ovarian Cancer Therapy. <i>ACS Omega</i> , 2021, 6, 28611-28619.	1.6	8
54	MnSn(OH) ₆ derived Mn ₂ SnO ₄ @Mn ₂ O ₃ composites as electrode materials for high-performance Supercapacitors. <i>Materials Research Bulletin</i> , 2022, 148, 111678.	2.7	8

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55	TiO ₂ Paste Formulation for Crack-Free Mesoporous Nanocrystalline Film of Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2012, 12, 5361-5366.	0.9	7
56	Advances in electrochemical aptasensing for cardiac biomarkers. Bulletin of the Korean Chemical Society, 2022, 43, 51-68.	1.0	7
57	Sensitivity Control of Label-Free DNA Hybridization Detection Based on Poly(thionine)-Modified Glassy Carbon and Gold Electrodes. Bulletin of the Korean Chemical Society, 2017, 38, 27-32.	1.0	6
58	A Facile Synthesis of Granular ZnO Nanostructures for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-6.	1.4	5
59	Glass Frit Dissolution Influenced by Material Composition and the Water Content in Iodide/Triiodide Electrolyte of Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-8.	1.4	5
60	Carbon Nanotubes on Fluorine-Doped Tin Oxide for Fabrication of Dye-Sensitized Solar Cells at Low Temperature Condition. Journal of Nanoscience and Nanotechnology, 2012, 12, 5373-5380.	0.9	3
61	Effect of Titanium Nanorods in the Photoelectrode on the Efficiency of Dye Sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2013, 34, 2765-2768.	1.0	2
62	Synthesis, kinetic study, and reaction mechanism: nucleophilic substitution reactions of butyl methyl chlorophosphate with substituted anilines and deuterated substituted anilines in acetonitrile. Turkish Journal of Chemistry, 2019, 43, 501-510.	0.5	0
63	Investigating the Regulatory Interaction of Linker Region of Clostridium intestinalis Voltage-sensitive Phosphatase with Lipid Membrane. Bulletin of the Korean Chemical Society, 2014, 35, 3389-3392.	1.0	0