

# Rahman Mohammad Mahbubur

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7187164/publications.pdf>

Version: 2024-02-01

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	Advances in electrochemical aptasensing for cardiac biomarkers. Bulletin of the Korean Chemical Society, 2022, 43, 51-68.	1.0	7
2	MnSn(OH) <sub>6</sub> derived Mn <sub>2</sub> SnO <sub>4</sub> @Mn <sub>2</sub> O <sub>3</sub> composites as electrode materials for high-performance Supercapacitors. Materials Research Bulletin, 2022, 148, 111678.	2.7	8
3	Trimethylsulfonium lead triiodide (TMSPbI <sub>3</sub> ) for moisture-stable perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 4327-4335.	2.5	11
4	2D metal azolate framework as nanozyme for amperometric detection of glucose at physiological pH and alkaline medium. Mikrochimica Acta, 2021, 188, 77.	2.5	24
5	Self-Therapeutic Cobalt Hydroxide Nanosheets (Co(OH) <sub>2</sub> NS) for Ovarian Cancer Therapy. ACS Omega, 2021, 6, 28611-28619.	1.6	8
6	Low-Cost and Efficient Nickel Nitroprusside/Graphene Nanohybrid Electrocatalysts as Counter Electrodes for Dye-Sensitized Solar Cells. Materials, 2021, 14, 6563.	1.3	10
7	Synthesis of Cu-Doped Mn <sub>3</sub> O <sub>4</sub> @Mn-Doped CuO Nanostructured Electrode Materials by a Solution Process for High-Performance Electrochemical Pseudocapacitors. ACS Omega, 2020, 5, 22356-22366.	1.6	39
8	Recent advances of electrochemical and optical enzyme-free glucose sensors operating at physiological conditions. Biosensors and Bioelectronics, 2020, 165, 112331.	5.3	196
9	A two-step approach for improved exfoliation and cutting of boron nitride into boron nitride nanodisks with covalent functionalizations. Nanotechnology, 2020, 31, 425604.	1.3	8
10	An Electrochemical Immunosensor Based on a Self-Assembled Monolayer Modified Electrode for Label-Free Detection of $\hat{\pm}$ -Synuclein. Sensors, 2020, 20, 617.	2.1	26
11	Electrochemical synthesis of titanium nitride nanoparticles onto titanium foil for electrochemical supercapacitors with ultrafast charge/discharge. Sustainable Energy and Fuels, 2020, 4, 2480-2490.	2.5	34
12	A highly sensitive poly(chrysoidine G)@gold nanoparticle composite based nitrite sensor for food safety applications. Analytical Methods, 2020, 12, 5562-5571.	1.3	11
13	Sodium-Doped Binary Strontium-Copper Oxide as a High-Performance Electrochemical Pseudocapacitive Electrode Material. Journal of the Electrochemical Society, 2020, 167, 126516.	1.3	8
14	Binary strontium@copper oxide nanostructures doped with potassium as electrode material for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2019, 30, 21269-21277.	1.1	15
15	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. ACS Applied Materials & Interfaces, 2019, 11, 34930-34938.	4.0	57
16	Conducting poly(aniline blue)-gold nanoparticles composite modified fluorine-doped tin oxide electrode for sensitive and non-enzymatic electrochemical detection of glucose. Journal of Electroanalytical Chemistry, 2019, 850, 113394.	1.9	26
17	In-situ electrochemical deposition of dendritic Cu-Cu <sub>2</sub> S nanocomposites onto glassy carbon electrode for sensitive and non-enzymatic detection of glucose. Journal of Electroanalytical Chemistry, 2019, 847, 113177.	1.9	20
18	$\hat{\pm}$ -MnO <sub>2</sub> nanorod/boron nitride nanoplatelet composites for high-performance nanoscale dielectric pseudocapacitor applications. Journal of Industrial and Engineering Chemistry, 2019, 79, 115-123.	2.9	26

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Synthesis, kinetic study, and reaction mechanism: nucleophilic substitution reactions of butyl methyl chlorophosphate with substituted anilines and deuterated substituted anilines in acetonitrile. <i>Turkish Journal of Chemistry</i> , 2019, 43, 501-510.	0.5	0
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Electrodeposition of Cu <sub>2</sub> 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
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Sensitivity Control of Label-Free DNA Hybridization Detection Based on Poly(thionine)-Modified Glassy Carbon and Gold Electrodes. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 27-32.	1.0	6
39	Annealing-Free Synthesis of K-doped Mixed-Phase TiO <sub>2</sub> Nanofibers on Ti Foil for Electrochemical Supercapacitor. <i>Electrochimica Acta</i> , 2017, 253, 563-571.	2.6	28
40	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
41	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
42	Simultaneous and Interference-Free Detection of Hydroquinone and Catechol on Poly (Evans) Tj ETQq0 0 0 rgBT /Oyerglock 10 Tf 50 542	1.3	14
43	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
44	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
45	Electrochemical Impedance Spectroscopic Analysis of Sensitization-Based Solar Cells. <i>Israel Journal of Chemistry</i> , 2015, 55, 990-1001.	1.0	45
46	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
47	Novel energy relay dyes for high efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 3526-3531.	2.8	20
48	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
49	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
50	Electrochemical DNA Hybridization Sensors Based on Conducting Polymers. <i>Sensors</i> , 2015, 15, 3801-3829.	2.1	72
51	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
52	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
53	Investigating the Regulatory Interaction of Linker Region of <i>Ciona intestinalis</i> Voltage-sensitive Phosphatase with Lipid Membrane. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 3389-3392.	1.0	0
54	A facile template-free chemical synthesis of poly(thionine) nanowires. <i>Chemical Physics Letters</i> , 2013, 559, 56-60.	1.2	18

#	ARTICLE	IF	CITATIONS
55	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
56	A Facile Synthesis of Granular ZnO Nanostructures for Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	1.4	5
57	Glass Frit Dissolution Influenced by Material Composition and the Water Content in Iodide/Triiodide Electrolyte of Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-8.	1.4	5
58	Effect of Titanium Nanorods in the Photoelectrode on the Efficiency of Dye Sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 2765-2768.	1.0	2
59	TiO <sub>2</sub> Paste Formulation for Crack-Free Mesoporous Nanocrystalline Film of Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5361-5366.	0.9	7
60	Carbon Nanotubes on Fluorine-Doped Tin Oxide for Fabrication of Dye-Sensitized Solar Cells at Low Temperature Condition. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5373-5380.	0.9	3
61	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
62	Effect of Nitrite and Nitrate as the Source of OH Radical in the O <sub>3</sub> /UV Process with or without Benzene. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3039-3044.	1.0	8
63	A Comprehensive Review of Glucose Biosensors Based on Nanostructured Metal-Oxides. <i>Sensors</i> , 2010, 10, 4855-4886.	2.1	718