

# A J Saleh Ahammad

## List of Publications by Year in descending order

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57  
papers

2,911  
citations

236612

25  
h-index

168136

53  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3639  
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	Electrochemical Sensors Based on Carbon Nanotubes. <i>Sensors</i> , 2009, 9, 2289-2319.	2.1	295
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	Green Chemistry Synthesis of Silver Nanoparticles and Their Potential Anticancer Effects. <i>Cancers</i> , 2020, 12, 855.	1.7	166
5	Electrochemical Impedance Spectra of Dye-Sensitized Solar Cells: Fundamentals and Spreadsheet Calculation. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-17.	1.4	151
6	Preparation of Sulfur-doped Carbon for Supercapacitor Applications: A Review. <i>ChemSusChem</i> , 2022, 15, .	3.6	101
7	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
8	Porous tal palm carbon nanosheets: preparation, characterization and application for the simultaneous determination of dopamine and uric acid. <i>Nanoscale Advances</i> , 2019, 1, 613-626.	2.2	83
9	High yield activated porous coal carbon nanosheets from Boropukuria coal mine as supercapacitor material: Investigation of the charge storing mechanism at the interfacial region. <i>Journal of Energy Storage</i> , 2020, 32, 101908.	3.9	81
10	Activated jute carbon paste screen-printed FTO electrodes for nonenzymatic amperometric determination of nitrite. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 368-379.	1.9	66
11	Cost-Effective Electrochemical Sensor Based on Carbon Nanotube Modified-Pencil Electrode for the Simultaneous Determination of Hydroquinone and Catechol. <i>Journal of the Electrochemical Society</i> , 2018, 165, B390-B397.	1.3	58
12	Enzyme-free impedimetric glucose sensor based on gold nanoparticles/polyaniline composite film. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1933-1939.	1.2	51
13	Reduced Graphene Oxide Screen-Printed FTO as Highly Sensitive Electrodes for Simultaneous Determination of Dopamine and Uric Acid. <i>Journal of the Electrochemical Society</i> , 2018, 165, B174-B183.	1.3	46
14	Green Synthesis of Gold and Silver Nanoparticles by Using <i>Amorphophallus paeoniifolius</i> Tuber Extract and Evaluation of Their Antibacterial Activity. <i>Molecules</i> , 2020, 25, 4773.	1.7	43
15	Recent Advancements in Electrochemical Deposition of Metal-based Electrode Materials for Electrochemical Supercapacitors. <i>Chemical Record</i> , 2022, 22, e202200013.	2.9	41
16	Spatial arrangement of carbon nanotubes in TiO <sub>2</sub> photoelectrodes to enhance the efficiency of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4333.	1.3	40
17	Synthesis of a novel imidazolium-based electrolytes and application for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 1483-1488.	2.6	38
18	Mechanistic insights of the oxidation of bisphenol A at ultrasonication assisted polyaniline-Au nanoparticles composite for highly sensitive electrochemical sensor. <i>Electrochimica Acta</i> , 2021, 374, 137968.	2.6	38

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19	Electrochemical Sensing Platforms of Dihydroxybenzene: Part 1 “ Carbon Nanotubes, Graphene, and their Derivatives. <i>Chemical Record</i> , 2021, 21, 1039-1072.	2.9	37
20	Graphene and Carbon Nanotube-based Electrochemical Sensing Platforms for Dopamine. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3516-3543.	1.7	36
21	Metal Nanoparticles for Electrochemical Sensing: Progress and Challenges in the Clinical Transition of Point-of-Care Testing. <i>Molecules</i> , 2020, 25, 5787.	1.7	34
22	Fabrication of Ni-Co-Based Heterometallo-Supramolecular Polymer Films and the Study of Electron Transfer Kinetics for the Nonenzymatic Electrochemical Detection of Nitrite. <i>ACS Applied Polymer Materials</i> , 2020, 2, 273-284.	2.0	30
23	Poly(brilliant Cresyl Blue)-Modified Electrode for Highly Sensitive and Simultaneous Determination of Hydroquinone and Catechol. <i>Journal of the Electrochemical Society</i> , 2013, 160, B37-B42.	1.3	29
24	Poly(thionine)-modified GC Electrode for Simultaneous Detection of Dopamine and Uric Acid in the Presence of Ascorbic Acid. <i>Bulletin of the Korean Chemical Society</i> , 2008, 29, 1883-1884.	1.0	29
25	Enhancing the Performance of Dye Sensitized Solar Cells Using Silver Nanoparticles Modified Photoanode. <i>Molecules</i> , 2020, 25, 4021.	1.7	26
26	Evaluating the electrochemical detection of nitrite using a platinum nanoparticle coated jute carbon modified glassy carbon electrode and voltametric analysis. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 165, 110659.	1.9	26
27	Recent Advances in Carbon and Metal Based Supramolecular Technology for Supercapacitor Applications. <i>Chemical Record</i> , 2022, 22, e202200041.	2.9	26
28	Fermi energy level tuning for high performance dye sensitized solar cells using sp <sup>2</sup> selective nitrogen-doped carbon nanotube channels. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5255.	1.3	25
29	Pyrolytic preparation of gold nanoparticle-coated taro carbon and its application for the selective detection of dopamine. <i>New Journal of Chemistry</i> , 2018, 42, 4543-4552.	1.4	25
30	Electrochemical Sensing Platforms of Dihydroxybenzene: Part 2 “ Nanomaterials Excluding Carbon Nanotubes and Graphene. <i>Chemical Record</i> , 2021, 21, 1073-1097.	2.9	25
31	Immobilization of Horseradish Peroxidase onto a Gold-Nanoparticle-Adsorbed Poly(thionine) Film for the Construction of a Hydrogen Peroxide Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5670-5675.	0.9	24
32	Fabrication of Nanostructured Pd Thin Films Using Aerosol-Assisted Chemical Vapor Deposition for the Nonenzymatic Electrochemical Detection of H <sub>2</sub> O <sub>2</sub> . <i>ACS Applied Electronic Materials</i> , 2019, 1, 417-429.	2.0	24
33	Hydrogen Peroxide Biosensors Based on Horseradish Peroxidase and Hemoglobin. <i>Journal of Biosensors &amp; Bioelectronics</i> , 0, s9, .	0.4	24
34	Interference-Free Determination of Dopamine at the Poly(thionine)-Modified Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2011, 158, F106-F110.	1.3	22
35	Hydrogen Peroxide Biosensor based on the Immobilization of Horseradish Peroxidase onto a Gold Nanoparticles-Adsorbed Poly(brilliant cresyl blue) Film. <i>Journal of the Electrochemical Society</i> , 2015, 162, B52-B56.	1.3	19
36	Poly (brilliant cresyl blue)-reduced graphene oxide modified activated GCE for nitrite detection: Analyzing the synergistic interactions through experimental and computational study. <i>Electrochimica Acta</i> , 2020, 349, 136375.	2.6	18

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37	Gold Nanoparticle-Modified Indium Tin Oxide Electrode for Highly Sensitive Electrochemical Detection of Melamine. <i>ECS Electrochemistry Letters</i> , 2013, 2, B13-B15.	1.9	16
38	Hollow Reticular Shaped Highly Ordered Rice Husk Carbon for the Simultaneous Determination of Dopamine and Uric Acid. <i>Electroanalysis</i> , 2020, 32, 1957-1970.	1.5	15
39	Selective Detection of Dopamine at the AACVD Synthesized Palladium Nanoparticles and Understanding the Sensing Mechanism through Electrochemical and Computational Study. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1528-B1542.	1.3	14
40	Computational Approach to Understanding the Electrocatalytic Reaction Mechanism for the Process of Electrochemical Oxidation of Nitrite at a Ni <sup>II</sup> -Co-Based Heterometallo-Supramolecular Polymer. <i>ACS Omega</i> , 2020, 5, 12882-12891.	1.6	14
41	Highly Sensitive Detection of Amoxicillin Based on Gold Nanoparticle-Modified ITO Electrode. <i>ECS Solid State Letters</i> , 2013, 3, P14-P16.	1.4	12
42	Ni and Co oxide water oxidation electrocatalysts: Effect of thermal treatment on catalytic activity and surface morphology. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111097.	8.2	11
43	Cobalt Oxide Nanorod-Modified GCE as Sensitive Electrodes for Simultaneous Detection of Hydroquinone and Catechol. <i>Processes</i> , 2022, 10, 390.	1.3	9
44	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
45	Supporting electrolyte interaction with the AACVD synthesized Rh thin film influences the OER activity. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28740-28751.	3.8	8
46	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
47	Signal Enhancement of Hydroquinone and Catechol on Their Simultaneous Determination. <i>International Journal of Electrochemical Science</i> , 2017, 12, 7570-7579.	0.5	7
48	Graphene-Based Electrochemical Sensors for Biomedical Applications. , 2019, , 249-282.		5
49	Porous tal palm carbon nanosheets as a sensing material for simultaneous detection of hydroquinone and catechol. <i>Electrochemical Science Advances</i> , 2022, 2, e2100046.	1.2	5
50	Selective Detection of Serotonin from the Interference by Ascorbic Acid and Uric Acid at Poly(thionine)-modified Glassy Carbon Electrode. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 779-780.	1.0	5
51	Simultaneous Determination of Metronidazole and Ranitidine Using an Activated GCE Decorated with Electrochemically Reduced Graphene Oxide. <i>Journal of Electronic Materials</i> , 2022, 51, 2877-2888.	1.0	4
52	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
53	Fe(II)-Based Metallo-Supramolecular Polymer Film as a Sensing Material for the Detection of Nitrite. <i>ECS Transactions</i> , 2022, 107, 14783-14790.	0.3	2
54	Optical and electrochemical properties and the calculated structure of pentacoordinate aluminum 8-hydroxyquinoline. <i>Inorganica Chimica Acta</i> , 2011, 373, 124-129.	1.2	1

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55	Sensitivity Control of Hydroquinone and Catechol at Poly(Brilliant Cresyl Blue)-Modified GCE by Varying Activation Conditions of the GCE: An Experimental and Computational Study. ChemEngineering, 2022, 6, 27.	1.0	1
56	Layer by Layer Assembly of Graphene Oxide and Reduced Graphene Oxide for Electrochemical Oxidation of Bisphenol. ECS Meeting Abstracts, 2021, MA2021-01, 1674-1674.	0.0	0
57	Effects of Graphene Oxide and Reduced Graphene Oxide Interlayer Interactions on the Charge Storage Mechanism. ECS Meeting Abstracts, 2021, MA2021-01, 503-503.	0.0	0