

# Madzlan Aziz

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

1,456  
citations

21  
h-index

37  
g-index

73  
ext. papers

1,812  
ext. citations

3.5  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
67	Cu <sub>2</sub> O/ZnO-PANI ternary nanocomposite as an efficient photocatalyst for the photodegradation of Congo Red dye. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105065	6.8	15
66	Review of various strategies to boost the photocatalytic activity of the cuprous oxide-based photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105138	6.8	9
65	The role of solid, liquid and gaseous hydrocarbon precursors on chemical vapor deposition grown carbon nanomaterials' growth temperature. <i>Synthetic Metals</i> , <b>2021</b> , 274, 116735	3.6	4
64	Impact of ionic liquid [FPIM]Br on the electrodeposition of Ni and Co from an aqueous sulfate bath. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 170-185	5.5	2
63	Tuning the oxygen functional groups in graphene oxide nanosheets by optimizing the oxidation time. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 131, 114727	3	2
62	Mild sulfonated polyether ketone ether ketone ketone incorporated polysulfone membranes for microbial fuel cell application. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50216	2.9	3
61	Ultrafast degradation of Congo Red dye using a facile one-pot solvothermal synthesis of cuprous oxide/titanium dioxide and cuprous oxide/zinc oxide p-n heterojunction photocatalyst. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 122, 105481	4.3	11
60	Part II: Impact of ionic liquids as anticorrosives and additives on Ni-Co alloy electrodeposition: Experimental and DFT study. <i>Arabian Journal of Chemistry</i> , <b>2021</b> , 14, 102909	5.9	2
59	Effects of oxidants on the in-situ polymerization of aniline to form Cu <sub>2</sub> O/ZnO/PANI composite photocatalyst. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 2030-2035	1.4	3
58	Part I: Ni-Co alloy foils electrodeposited using ionic liquids. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 7707-7719	5.19	1
57	A review on floating nanocomposite photocatalyst: Fabrication and applications for wastewater treatment. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 36, 101300	6.7	28
56	Co-incorporation of graphene oxide/silver nanoparticle into poly-L-lactic acid fibrous: A route toward the development of cytocompatible and antibacterial coating layer on magnesium implants. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110812	8.3	38
55	Development of the PVA/CS nanofibers containing silk protein sericin as a wound dressing: In vitro and in vivo assessment. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 513-521	7.9	66
54	Rapid Synthesis of Pure Phase Bismuth Ferrite through Modified Sol-gel Auto-ignition Method: Impact of Different Chelating Agents. <i>ChemistrySelect</i> , <b>2020</b> , 5, 13584-13590	1.8	2
53	Effect of substituents on the inhibitive properties of newly synthesized 5-benzoyl-4-methyl-1,3,4,5-tetrahydro-2H-1,5-benzodiazepin-2-one derivatives against mild steel corrosion in an acidic medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2020</b> , 71, 2070-2082	1.6	
52	A novel viewpoint of an imidazole derivative ionic liquid as an additive for cobalt and nickel electrodeposition.. <i>RSC Advances</i> , <b>2020</b> , 10, 32113-32126	3.7	2
51	Coating biodegradable magnesium alloys with electrospun poly-L-lactic acid-bermanite-doxycycline nanofibers for enhanced biocompatibility, antibacterial activity, and corrosion resistance. <i>Surface and Coatings Technology</i> , <b>2019</b> , 377, 124898	4.4	49

50	Apatite-forming ability, cytocompatibility, and mechanical properties enhancement of poly methyl methacrylate-based bone cements by incorporating of baghdadite nanoparticles. <i>International Journal of Applied Ceramic Technology</i> , <b>2019</b> , 16, 2006-2019	2	14
49	Mesoporous anatase based opto-chemical sensor. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 100, 236-244	4.3	6
48	Improved antibacterial properties of an Mg-Zn-Ca alloy coated with chitosan nanofibers incorporating silver sulfadiazine multiwall carbon nanotubes for bone implants. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 1333-1339	3.2	24
47	Antibacterial activity and corrosion resistance of Ta <sub>2</sub> O <sub>5</sub> thin film and electrospun PCL/MgO-Ag nanofiber coatings on biodegradable Mg alloy implants. <i>Ceramics International</i> , <b>2019</b> , 45, 11883-11892	5.1	41
46	QSAR classification model for diverse series of antifungal agents based on improved binary differential search algorithm. <i>SAR and QSAR in Environmental Research</i> , <b>2019</b> , 30, 131-143	3.5	12
45	Experimental and theoretical studies of the inhibition performance of two furan derivatives on mild steel corrosion in acidic medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 135-148	1.6	21
44	Fabrication of polymer-based graphene composite as highly conductive polymer electrode <b>2019</b> ,		2
43	Synthesis and in-vitro performance of nanostructured monticellite coating on magnesium alloy for biomedical applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 180-193	5.7	29
42	A penalized quantitative structure-property relationship study on melting point of energetic carbocyclic nitroaromatic compounds using adaptive bridge penalty. <i>SAR and QSAR in Environmental Research</i> , <b>2018</b> , 29, 339-353	3.5	5
41	Adsorption and Thermodynamic Characteristics of Phenylpropanoids of Alpinia galanga as Corrosion Inhibitors on Mild Steel. <i>Advanced Science Letters</i> , <b>2018</b> , 24, 3561-3567	0.1	1
40	In vitro degradation behavior, antibacterial activity and cytotoxicity of TiO <sub>2</sub> -MAO/ZnHA composite coating on Mg alloy for orthopedic implants. <i>Surface and Coatings Technology</i> , <b>2018</b> , 334, 450-460	4.4	58
39	Bioactivity, in-vitro corrosion behavior, and antibacterial activity of silver zeolites doped hydroxyapatite coating on magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2018</b> , 28, 1553-1562	3.3	14
38	High-dimensional QSAR classification model for anti-hepatitis C virus activity of thiourea derivatives based on the sparse logistic regression model with a bridge penalty. <i>Journal of Chemometrics</i> , <b>2017</b> , 31, e2889	1.6	16
37	A sparse QSRR model for predicting retention indices of essential oils based on robust screening approach. <i>SAR and QSAR in Environmental Research</i> , <b>2017</b> , 28, 691-703	3.5	5
36	In vitro corrosion behavior, bioactivity, and antibacterial performance of the silver-doped zinc oxide coating on magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2017</b> , 68, 1228-1236	1.6	15
35	Drug delivery and cytocompatibility of ciprofloxacin loaded gelatin nanofibers-coated Mg alloy. <i>Materials Letters</i> , <b>2017</b> , 207, 179-182	3.3	36
34	Synthesis of a novel nanostructured zinc oxide/baghdadite coating on Mg alloy for biomedical application: In-vitro degradation behavior and antibacterial activities. <i>Ceramics International</i> , <b>2017</b> , 43, 14842-14850	5.1	27
33	Novel nanostructured baghdadite-vancomycin scaffolds: In-vitro drug release, antibacterial activity and biocompatibility. <i>Materials Letters</i> , <b>2017</b> , 209, 369-372	3.3	28

32	EXPERIMENTAL AND QUANTUM CHEMICAL CALCULATIONS ON CORROSION INHIBITION OF MILD STEEL BY TWO FURAN DERIVATIVES. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2016</b> , 78,	1.2	2
31	High-dimensional QSAR modelling using penalized linear regression model with L1/2-norm. <i>SAR and QSAR in Environmental Research</i> , <b>2016</b> , 27, 703-19	3.5	15
30	PREPARATION AND CHARACTERIZATION OF GRAPHENE-BASED MAGNETIC HYBRID NANOCOMPOSITE. <i>Malaysian Journal of Analytical Sciences</i> , <b>2016</b> , 20, 149-156	1	11
29	CORROSION INHIBITION OF Q235A STEEL IN ACID MEDIUM USING ISATIN DERIVATIVES: A QSAR STUDY. <i>Malaysian Journal of Analytical Sciences</i> , <b>2016</b> , 20, 484-490	1	2
28	Quantitative structure–activity relationship model for prediction study of corrosion inhibition efficiency using two-stage sparse multiple linear regression. <i>Journal of Chemometrics</i> , <b>2016</b> , 30, 361-368	1.6	27
27	The influence of PEEK as a pore former on the microstructure of brush-painted LSCF cathodes. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2895-2905	2.6	7
26	Electrocatalytic Study of Efficient Synthesized Graphene Nanosheets Incorporated with Pt Nanoparticles for Methanol Oxidation Reaction. <i>Electroanalysis</i> , <b>2016</b> , 28, 222-226	3	6
25	High activity of aluminated bifunctional mesoporous silica nanoparticles for cumene hydrocracking and measurement of molar absorption coefficient. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 8006-8016	3.6	5
24	Effects of reduction time on the structural, electrical and thermal properties of synthesized reduced graphene oxide nanosheets. <i>Bulletin of Materials Science</i> , <b>2015</b> , 38, 1569-1576	1.7	9
23	Anions Effect on the Electrical Properties of PMMA/ENR 50 Blend Electrolytes. <i>Advanced Materials Research</i> , <b>2015</b> , 1107, 145-150	0.5	1
22	High-dimensional QSAR prediction of anticancer potency of imidazo[4,5-b]pyridine derivatives using adjusted adaptive LASSO. <i>Journal of Chemometrics</i> , <b>2015</b> , 29, 547-556	1.6	35
21	Synthesis of Graphene Oxide Nanosheets via Modified Hummers’s Method and Its Physicochemical Properties. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2015</b> , 74,	1.2	17
20	Efficient reduction of graphene oxide nanosheets using Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub> as a reducing agent. <i>Functional Materials Letters</i> , <b>2015</b> , 08, 1550026	1.2	5
19	An MP2 investigation on the encapsulation of H <sub>2</sub> and 2H <sub>2</sub> inside C <sub>50</sub> fullerene. <i>Chemical Physics Letters</i> , <b>2014</b> , 594, 58-63	2.5	4
18	Effect of solvent annealing on the crystallinity of spray coated ternary blend films prepared using low boiling point solvents. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2014</b> , 79, 48-55	3.7	12
17	Ab initio molecular orbitals studies and NBO analysis of conformational preference in 2-hydroxypiperidine. <i>Computational and Theoretical Chemistry</i> , <b>2013</b> , 1024, 52-60	2	1
16	Size-controlled synthesis of SnO <sub>2</sub> nanoparticles by sol-gel method. <i>Materials Letters</i> , <b>2013</b> , 91, 31-34	3.3	115
15	FESEM-EDX and CV Characteristics of Dopant (Mn, Co, Ni) Magnesium Ferrites. <i>Advanced Materials Research</i> , <b>2013</b> , 645, 150-153	0.5	

14	Application of Frumkin Isotherm for Carbon Steel Corrosion in Soil Media. <i>Advanced Materials Research</i> , <b>2013</b> , 652-654, 963-966	0.5	
13	Microstructure and anti-adhesion properties of PES/TAP/Ag hybrid ultrafiltration membrane. <i>Desalination</i> , <b>2012</b> , 287, 71-77	10.3	35
12	Structure of SnO <sub>2</sub> nanoparticles by sol-gel method. <i>Materials Letters</i> , <b>2012</b> , 74, 62-64	3.3	51
11	Effect of co-doped SnO <sub>2</sub> nanoparticles on the optical properties of Cu-doped lithium potassium borate glass. <i>Materials Letters</i> , <b>2012</b> , 85, 21-24	3.3	9
10	Pre-treatment of multi-walled carbon nanotubes for polyetherimide mixed matrix hollow fiber membranes. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 386, 80-7	9.3	27
9	Polyethersulfone (PES)/silver composite UF membrane: Effect of silver loading and PVP molecular weight on membrane morphology and antibacterial activity. <i>Desalination</i> , <b>2011</b> , 273, 72-80	10.3	198
8	Silver-filled polyethersulfone membranes for antibacterial applications Effect of PVP and TAP addition on silver dispersion. <i>Desalination</i> , <b>2010</b> , 261, 264-271	10.3	99
7	The Coagulation Impact of 50% Epoxidised Natural Rubber Chain in Ethylene Carbonate-Plasticized Solid Electrolytes. <i>Macromolecular Symposia</i> , <b>2009</b> , 277, 62-68	0.8	11
6	Functionalized Carbon Nanotubes for Mixed Matrix Membrane. <i>IEICE Transactions on Electronics</i> , <b>2009</b> , E92-C, 1427-1431	0.4	2
5	Cyclodextrin-Functionalized Carbon Nanotubes For Mixed Matrix Membrane <b>2009</b> ,		2
4	Influence of Catalyst Preparation on Synthesis of Multi-Walled Carbon Nanotubes. <i>IEICE Transactions on Electronics</i> , <b>2009</b> , E92-C, 1421-1426	0.4	2
3	A REVIEW OF PURIFICATION TECHNIQUES FOR CARBON NANOTUBES. <i>Nano</i> , <b>2008</b> , 03, 127-143	1.1	63
2	The role and impact of rubber in poly(methyl methacrylate)/lithium triflate electrolyte. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 1401-1404	8.9	73
1	Triethanolamine as an additive to the anode to improve the rechargeability of alkaline manganese dioxide batteries. <i>Journal of Power Sources</i> , <b>2001</b> , 94, 129-131	8.9	18