

# Madzlan Aziz

## List of Publications by Year in descending order

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73  
papers

2,202  
citations

218381

26  
h-index

223531

46  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyethersulfone (PES)–silver composite UF membrane: Effect of silver loading and PVP molecular weight on membrane morphology and antibacterial activity. <i>Desalination</i> , 2011, 273, 72-80.	4.0	236
2	Size-controlled synthesis of SnO <sub>2</sub> nanoparticles by sol–gel method. <i>Materials Letters</i> , 2013, 91, 31-34.	1.3	153
3	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> , 2020, 149, 513-521.	3.6	122
4	Silver-filled polyethersulfone membranes for antibacterial applications – Effect of PVP and TAP addition on silver dispersion. <i>Desalination</i> , 2010, 261, 264-271.	4.0	113
5	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> , 2018, 334, 450-460.	2.2	101
6	The role and impact of rubber in poly(methyl methacrylate)/lithium triflate electrolyte. <i>Journal of Power Sources</i> , 2006, 159, 1401-1404.	4.0	87
7	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> , 2020, 111, 110812.	3.8	78
8	A REVIEW OF PURIFICATION TECHNIQUES FOR CARBON NANOTUBES. <i>Nano</i> , 2008, 03, 127-143.	0.5	77
9	A review on floating nanocomposite photocatalyst: Fabrication and applications for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020, 36, 101300.	2.6	74
10	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> , 2019, 45, 11883-11892.	2.3	73
11	Coating biodegradable magnesium alloys with electrospun poly-L-lactic acid–kermanite-doxycycline nanofibers for enhanced biocompatibility, antibacterial activity, and corrosion resistance. <i>Surface and Coatings Technology</i> , 2019, 377, 124898.	2.2	71
12	Structure of SnO <sub>2</sub> nanoparticles by sol–gel method. <i>Materials Letters</i> , 2012, 74, 62-64.	1.3	63
13	High-dimensional QSAR prediction of anticancer potency of imidazo[4,5-b]pyridine derivatives using adjusted adaptive LASSO. <i>Journal of Chemometrics</i> , 2015, 29, 547-556.	0.7	50
14	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> , 2021, 9, 105065.	3.3	49
15	Drug delivery and cytocompatibility of ciprofloxacin loaded gelatin nanofibers-coated Mg alloy. <i>Materials Letters</i> , 2017, 207, 179-182.	1.3	48
16	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> , 2017, 43, 14842-14850.	2.3	46
17	Novel nanostructured baghdadite-vancomycin scaffolds: In-vitro drug release, antibacterial activity and biocompatibility. <i>Materials Letters</i> , 2017, 209, 369-372.	1.3	44
18	Review of various strategies to boost the photocatalytic activity of the cuprous oxide-based photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105138.	3.3	43

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19	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> , 2019, 30, 1333-1339.	1.6	42
20	Quantitative structure-activity relationship model for prediction study of corrosion inhibition efficiency using two-stage sparse multiple linear regression. <i>Journal of Chemometrics</i> , 2016, 30, 361-368.	0.7	39
21	Microstructure and anti-adhesion properties of PES/TAP/Ag hybrid ultrafiltration membrane. <i>Desalination</i> , 2012, 287, 71-77.	4.0	38
22	Synthesis and in-vitro performance of nanostructured monticellite coating on magnesium alloy for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2019, 773, 180-193.	2.8	38
23	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> , 2019, 70, 135-148.	0.8	33
24	Pre-treatment of multi-walled carbon nanotubes for polyetherimide mixed matrix hollow fiber membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 80-87.	5.0	30
25	Synthesis of Graphene Oxide Nanosheets via Modified Hummers™ Method and Its Physicochemical Properties. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.3	30
26	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> , 2021, 122, 105481.	1.9	29
27	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> , 2017, 31, e2889.	0.7	25
28	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> , 2017, 68, 1228-1236.	0.8	25
29	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> , 2019, 16, 2006-2019.	1.1	25
30	Triethanolamine as an additive to the anode to improve the rechargeability of alkaline manganese dioxide batteries. <i>Journal of Power Sources</i> , 2001, 94, 129-131.	4.0	24
31	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> , 2018, 28, 1553-1562.	1.7	24
32	High-dimensional QSAR modelling using penalized linear regression model with L1/2-norm. <i>SAR and QSAR in Environmental Research</i> , 2016, 27, 703-719.	1.0	22
33	QSAR classification model for diverse series of antifungal agents based on improved binary differential search algorithm. <i>SAR and QSAR in Environmental Research</i> , 2019, 30, 131-143.	1.0	16
34	The role of solid, liquid and gaseous hydrocarbon precursors on chemical vapor deposition grown carbon nanomaterials' growth temperature. <i>Synthetic Metals</i> , 2021, 274, 116735.	2.1	16
35	Effects of reduction time on the structural, electrical and thermal properties of synthesized reduced graphene oxide nanosheets. <i>Bulletin of Materials Science</i> , 2015, 38, 1569-1576.	0.8	15
36	Tuning the oxygen functional groups in graphene oxide nanosheets by optimizing the oxidation time. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 131, 114727.	1.3	15

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37	PREPARATION AND CHARACTERIZATION OF GRAPHENE-BASED MAGNETIC HYBRID NANOCOMPOSITE. Malaysian Journal of Analytical Sciences, 2016, 20, 149-156.	0.2	14
38	The Coagulation Impact of 50% Epoxidised Natural Rubber Chain in Ethylene Carbonateâ€Plasticized Solid Electrolytes. Macromolecular Symposia, 2009, 277, 62-68.	0.4	13
39	Effect of solvent annealing on the crystallinity of spray coated ternary blend films prepared using low boiling point solvents. Chemical Engineering and Processing: Process Intensification, 2014, 79, 48-55.	1.8	13
40	Part II: Impact of ionic liquids as anticorrosives and additives on Ni-Co alloy electrodeposition: Experimental and DFT study. Arabian Journal of Chemistry, 2021, 14, 102909.	2.3	13
41	Effect of co-doped SnO <sub>2</sub> nanoparticles on the optical properties of Cu-doped lithium potassium borate glass. Materials Letters, 2012, 85, 21-24.	1.3	10
42	Efficient reduction of graphene oxide nanosheets using Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub> as a reducing agent. Functional Materials Letters, 2015, 08, 1550026.	0.7	10
43	Mesoporous anatase based opto-chemical sensor. Materials Science in Semiconductor Processing, 2019, 100, 236-244.	1.9	10
44	The influence of PEEK as a pore former on the microstructure of brush-painted LSCF cathodes. Journal of Solid State Electrochemistry, 2016, 20, 2895-2905.	1.2	9
45	A novel viewpoint of an imidazole derivative ionic liquid as an additive for cobalt and nickel electrodeposition. RSC Advances, 2020, 10, 32113-32126.	1.7	9
46	Impact of ionic liquid [FPIM]Br on the electrodeposition of Ni and Co from an aqueous sulfate bath. Journal of Materials Research and Technology, 2021, 12, 170-185.	2.6	8
47	High activity of aluminated bifunctional mesoporous silica nanoparticles for cumene hydrocracking and measurement of molar absorption coefficient. New Journal of Chemistry, 2015, 39, 8006-8016.	1.4	7
48	Electrocatalytic Study of Efficient Synthesized Graphene Nanosheets Incorporated with Pt Nanoparticles for Methanol Oxidation Reaction. Electroanalysis, 2016, 28, 222-226.	1.5	7
49	A penalized quantitative structureâ€property relationship study on melting point of energetic carbocyclic nitroaromatic compounds using adaptive bridge penalty. SAR and QSAR in Environmental Research, 2018, 29, 339-353.	1.0	7
50	Rapid Synthesis of Pure Phase Bismuth Ferrite through Modified Solâ€Gel Autoâ€Ignition Method: Impact of Different Chelating Agents. ChemistrySelect, 2020, 5, 13584-13590.	0.7	7
51	A sparse QSRR model for predicting retention indices of essential oils based on robust screening approach. SAR and QSAR in Environmental Research, 2017, 28, 691-703.	1.0	6
52	Mild sulfonated polyether ketone ether ketone ketone incorporated polysulfone membranes for microbial fuel cell application. Journal of Applied Polymer Science, 2021, 138, 50216.	1.3	6
53	Part I: Ni-Co alloy foils electrodeposited using ionic liquids. Arabian Journal of Chemistry, 2020, 13, 7707-7719.	2.3	5
54	Effects of oxidants on the in-situ polymerization of aniline to form Cu <sub>2</sub> O/ZnO/PANI composite photocatalyst. Materials Today: Proceedings, 2021, 46, 2030-2035.	0.9	5

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55	Cyclodextrin-Functionalized Carbon Nanotubes For Mixed Matrix Membrane. , 2009, , .		4
56	An MP2 investigation on the encapsulation of H2 and 2H2 inside C50 fullerene. Chemical Physics Letters, 2014, 594, 58-63.	1.2	4
57	Anions Effect on the Electrical Properties of PMMA/ENR 50 Blend Electrolytes. Advanced Materials Research, 0, 1107, 145-150.	0.3	3
58	Influence of Catalyst Preparation on Synthesis of Multi-Walled Carbon Nanotubes. IEICE Transactions on Electronics, 2009, E92-C, 1421-1426.	0.3	3
59	CORROSION INHIBITION OF Q235A STEEL IN ACID MEDIUM USING ISATIN DERIVATIVES: A QSAR STUDY. Malaysian Journal of Analytical Sciences, 2016, 20, 484-490.	0.2	3
60	Functionalized Carbon Nanotubes for Mixed Matrix Membrane. IEICE Transactions on Electronics, 2009, E92-C, 1427-1431.	0.3	2
61	EXPERIMENTAL AND QUANTUM CHEMICAL CALCULATIONS ON CORROSION INHIBITION OF MILD STEEL BY TWO FURAN DERIVATIVES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	2
62	Fabrication of polymer-based graphene composite as highly conductive polymer electrode. AIP Conference Proceedings, 2019, , .	0.3	2
63	Adsorption and Thermodynamic Characteristics of Phenylpropanoids of Alpinia galanga as Corrosion Inhibitors on Mild Steel. Advanced Science Letters, 2018, 24, 3561-3567.	0.2	2
64	Ab initio molecular orbitals studies and NBO analysis of conformational preference in 2-hydroxypiperidine. Computational and Theoretical Chemistry, 2013, 1024, 52-60.	1.1	1
65	EXPERIMENTAL STUDY AND HIGH DIMENSIONAL QSAR MODELLING OF PHENYLPROPANOIDS OF ALPINIA GALANGA AS CORROSION INHIBITORS ON MILD STEEL. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	1
66	Effect of substituents on the inhibitive properties of newly synthesized 5- <i>n</i> -benzoyl-4-methyl-1,3,4,5-tetrahydro-2 <i>H</i> -1,5-benzodiazepin-2-one derivatives against mild steel corrosion in an acidic medium. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 2070-2082.	0.8	1
67	Morphological Study of Synthesized RGO/Pt Nanocomposites via Facile Chemical Reduction Method. Sains Malaysiana, 2017, 46, 629-635.	0.3	1
68	Effect of different incorporation route on the properties of polyethersulfone-silver membrane. , 2009, , .		0
69	Preparation and Luminescence Properties of Rare Earth Doped Nanostructured Zinc Oxide Thin Films by Sol Gel Technique. , 2009, , .		0
70	FESEM-EDX and CV Characteristics of Dopant (Mn, Co, Ni) Magnesium Ferrites. Advanced Materials Research, 2013, 645, 150-153.	0.3	0
71	Application of Frumkin Isotherm for Carbon Steel Corrosion in Soil Media. Advanced Materials Research, 0, 652-654, 963-966.	0.3	0
72	THEORETICAL AND EXPERIMENTAL STUDIES OF CORROSION INHIBITION OF THIOHENE-2-ETHYLAMINE ON MILD STEEL IN ACID MEDIA. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.3	0

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73	Development a QSAR Model of 1,3,4-Triazole Derivatives for Antioxidant Activity Prediction. , 2018, , .		0