

Madzlan Aziz

List of Publications by Citations

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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	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	10.3	198
66	Size-controlled synthesis of SnO ₂ nanoparticles by sol-gel method. <i>Materials Letters</i> , 2013 , 91, 31-34	3.3	115
65	Silver-filled polyethersulfone membranes for antibacterial applications Effect of PVP and TAP addition on silver dispersion. <i>Desalination</i> , 2010 , 261, 264-271	10.3	99
64	The role and impact of rubber in poly(methyl methacrylate)/lithium triflate electrolyte. <i>Journal of Power Sources</i> , 2006 , 159, 1401-1404	8.9	73
63	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	7.9	66
62	A REVIEW OF PURIFICATION TECHNIQUES FOR CARBON NANOTUBES. <i>Nano</i> , 2008 , 03, 127-143	1.1	63
61	In vitro degradation behavior, antibacterial activity and cytotoxicity of TiO ₂ -MAO/ZnHA composite coating on Mg alloy for orthopedic implants. <i>Surface and Coatings Technology</i> , 2018 , 334, 450-460	4.4	58
60	Structure of SnO ₂ nanoparticles by sol-gel method. <i>Materials Letters</i> , 2012 , 74, 62-64	3.3	51
59	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> , 2019 , 377, 124898	4.4	49
58	Antibacterial activity and corrosion resistance of Ta ₂ O ₅ thin film and electrospun PCL/MgO-Ag nanofiber coatings on biodegradable Mg alloy implants. <i>Ceramics International</i> , 2019 , 45, 11883-11892	5.1	41
57	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	8.3	38
56	Drug delivery and cytocompatibility of ciprofloxacin loaded gelatin nanofibers-coated Mg alloy. <i>Materials Letters</i> , 2017 , 207, 179-182	3.3	36
55	Microstructure and anti-adhesion properties of PES/TAP/Ag hybrid ultrafiltration membrane. <i>Desalination</i> , 2012 , 287, 71-77	10.3	35
54	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	1.6	35
53	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	5.7	29
52	A review on floating nanocomposite photocatalyst: Fabrication and applications for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101300	6.7	28
51	Novel nanostructured baghdadite-vancomycin scaffolds: In-vitro drug release, antibacterial activity and biocompatibility. <i>Materials Letters</i> , 2017 , 209, 369-372	3.3	28

50	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	5.1	27
49	Pre-treatment of multi-walled carbon nanotubes for polyetherimide mixed matrix hollow fiber membranes. <i>Journal of Colloid and Interface Science</i> , 2012 , 386, 80-7	9.3	27
48	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	1.6	27
47	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	3.2	24
46	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	1.6	21
45	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	8.9	18
44	Synthesis of Graphene Oxide Nanosheets via Modified Hummers's Method and Its Physicochemical Properties. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 74,	1.2	17
43	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	1.6	16
42	High-dimensional QSAR modelling using penalized linear regression model with L1/2-norm. <i>SAR and QSAR in Environmental Research</i> , 2016 , 27, 703-19	3.5	15
41	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	1.6	15
40	Cu ₂ 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	6.8	15
39	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	2	14
38	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	3.3	14
37	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	3.5	12
36	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> , 2014 , 79, 48-55	3.7	12
35	The Coagulation Impact of 50% Epoxidised Natural Rubber Chain in Ethylene Carbonate-Plasticized Solid Electrolytes. <i>Macromolecular Symposia</i> , 2009 , 277, 62-68	0.8	11
34	PREPARATION AND CHARACTERIZATION OF GRAPHENE-BASED MAGNETIC HYBRID NANOCOMPOSITE. <i>Malaysian Journal of Analytical Sciences</i> , 2016 , 20, 149-156	1	11
33	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	4.3	11

32	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	1.7	9
31	Effect of co-doped SnO ₂ nanoparticles on the optical properties of Cu-doped lithium potassium borate glass. <i>Materials Letters</i> , 2012 , 85, 21-24	3.3	9
30	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	6.8	9
29	The influence of PEEK as a pore former on the microstructure of brush-painted LSCF cathodes. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 2895-2905	2.6	7
28	Mesoporous anatase based opto-chemical sensor. <i>Materials Science in Semiconductor Processing</i> , 2019 , 100, 236-244	4.3	6
27	Electrocatalytic Study of Efficient Synthesized Graphene Nanosheets Incorporated with Pt Nanoparticles for Methanol Oxidation Reaction. <i>Electroanalysis</i> , 2016 , 28, 222-226	3	6
26	A sparse QSRR model for predicting retention indices of essential oils based on robust screening approach. <i>SAR and QSAR in Environmental Research</i> , 2017 , 28, 691-703	3.5	5
25	High activity of aluminated bifunctional mesoporous silica nanoparticles for cumene hydrocracking and measurement of molar absorption coefficient. <i>New Journal of Chemistry</i> , 2015 , 39, 8006-8016	3.6	5
24	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> , 2018 , 29, 339-353	3.5	5
23	Efficient reduction of graphene oxide nanosheets using Na ₂ C ₂ O ₄ as a reducing agent. <i>Functional Materials Letters</i> , 2015 , 08, 1550026	1.2	5
22	An MP2 investigation on the encapsulation of H ₂ and 2H ₂ inside C ₅₀ fullerene. <i>Chemical Physics Letters</i> , 2014 , 594, 58-63	2.5	4
21	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	3.6	4
20	Mild sulfonated polyether ketone ether ketone ketone incorporated polysulfone membranes for microbial fuel cell application. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50216	2.9	3
19	Effects of oxidants on the in-situ polymerization of aniline to form Cu ₂ O/ZnO/PANI composite photocatalyst. <i>Materials Today: Proceedings</i> , 2021 , 46, 2030-2035	1.4	3
18	EXPERIMENTAL AND QUANTUM CHEMICAL CALCULATIONS ON CORROSION INHIBITION OF MILD STEEL BY TWO FURAN DERIVATIVES. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1.2	2
17	Functionalized Carbon Nanotubes for Mixed Matrix Membrane. <i>IEICE Transactions on Electronics</i> , 2009 , E92-C, 1427-1431	0.4	2
16	Cyclodextrin-Functionalized Carbon Nanotubes For Mixed Matrix Membrane 2009 ,		2
15	Influence of Catalyst Preparation on Synthesis of Multi-Walled Carbon Nanotubes. <i>IEICE Transactions on Electronics</i> , 2009 , E92-C, 1421-1426	0.4	2

14	CORROSION INHIBITION OF Q235A STEEL IN ACID MEDIUM USING ISATIN DERIVATIVES: A QSAR STUDY. <i>Malaysian Journal of Analytical Sciences</i> , 2016 , 20, 484-490	1	2
13	Rapid Synthesis of Pure Phase Bismuth Ferrite through Modified Sol-gel Auto-ignition Method: Impact of Different Chelating Agents. <i>ChemistrySelect</i> , 2020 , 5, 13584-13590	1.8	2
12	A novel viewpoint of an imidazole derivative ionic liquid as an additive for cobalt and nickel electrodeposition.. <i>RSC Advances</i> , 2020 , 10, 32113-32126	3.7	2
11	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> , 2021 , 12, 170-185	5.5	2
10	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	3	2
9	Fabrication of polymer-based graphene composite as highly conductive polymer electrode 2019 ,		2
8	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> , 2021 , 14, 102909	5.9	2
7	Anions Effect on the Electrical Properties of PMMA/ENR 50 Blend Electrolytes. <i>Advanced Materials Research</i> , 2015 , 1107, 145-150	0.5	1
6	Part I: Ni-Co alloy foils electrodeposited using ionic liquids. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 7707-7719	3.7	1
5	Ab initio molecular orbitals studies and NBO analysis of conformational preference in 2-hydroxypiperidine. <i>Computational and Theoretical Chemistry</i> , 2013 , 1024, 52-60	2	1
4	Adsorption and Thermodynamic Characteristics of Phenylpropanoids of <i>Alpinia galanga</i> as Corrosion Inhibitors on Mild Steel. <i>Advanced Science Letters</i> , 2018 , 24, 3561-3567	0.1	1
3	FESEM-EDX and CV Characteristics of Dopant (Mn, Co, Ni) Magnesium Ferrites. <i>Advanced Materials Research</i> , 2013 , 645, 150-153	0.5	
2	Application of Frumkin Isotherm for Carbon Steel Corrosion in Soil Media. <i>Advanced Materials Research</i> , 2013 , 652-654, 963-966	0.5	
1	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> , 2020 , 71, 2070-2082	1.6	