

Mohamad Azuwa Mohamed

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.

59
papers

1,778
citations

26
h-index

41
g-index

65
ext. papers

2,187
ext. citations

5.7
avg, IF

5.13
L-index

#	Paper	IF	Citations
59	Application of Hybrid Polymeric Materials as Photocatalyst in Textile Wastewater. <i>Sustainable Textiles</i> , 2022 , 101-143	1.1	
58	Self-Healable Tires 2021 , 99-121		
57	Polymer-Based Flexible Substrates for Flexible Supercapacitors 2021 , 59-93		1
56	Patents on Polysaccharide Applications 2021 , 591-606		
55	Application of Nanoparticles for the Enhanced Production of Biodiesel 2021 , 465-480		0
54	Patents on Biodiesel 2021 , 361-375		
53	Reduced graphene oxide as protective material on cuprous oxide nanowire; the challenges and proposal for improvement in photoelectrochemical application. <i>Surface and Coatings Technology</i> , 2021 , 416, 127127	4.4	0
52	Photochemical Biofuel Cells 2021 , 229-260		
51	Recent progress in metal-ceramic anode of solid oxide fuel cell for direct hydrocarbon fuel utilization: A review. <i>Fuel Processing Technology</i> , 2021 , 212, 106626	7.2	32
50	BiFeO immobilized within liquid natural rubber-based hydrogel with enhanced adsorption-photocatalytic performance. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1495-1506	7.9	3
49	Analytical Tools for Solar Cell 2021 , 317-344		
48	Membranes for hydrogen separation: a significant review. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 1859-1881	3.2	14
47	Photocatalytic materials-based membranes for efficient water treatment 2020 , 209-230		3
46	Improved adsorption performance of rubber-based hydrogel: optimisation through response surface methodology, isotherm, and kinetic studies. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 94, 322-334	2.3	11
45	Enhancing the desalination performance of forward osmosis membrane through the incorporation of green nanocrystalline cellulose and halloysite dual nanofillers. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2359-2370	3.5	11
44	Application of Self-supported Materials for Photo and Photoelectrocatalysis. <i>Engineering Materials</i> , 2020 , 57-82	0.4	2
43	Hematite microcube decorated TiO ₂ nanorods as heterojunction photocatalyst with in-situ carbon doping derived from polysaccharides bio-templates hydrothermal carbonization. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153143	5.7	14

42	Mechanistic insight of the formation of visible-light responsive nanosheet graphitic carbon nitride embedded polyacrylonitrile nanofibres for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101015	6.7	15
41	Constructing a compact heterojunction structure of Ag ₂ CO ₃ /Ag ₂ O in-situ intermediate phase transformation decorated on ZnO with superior photocatalytic degradation of ibuprofen. <i>Separation and Purification Technology</i> , 2020 , 251, 117391	8.3	13
40	Features of metal oxide colloidal nanocrystal characterization 2020 , 83-122		4
39	Cobalt oxide as photocatalyst for water splitting: Temperature-dependent phase structures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25495-25504	6.7	17
38	Bio-inspired hierarchical hetero-architectures of in-situ C-doped g-C ₃ N ₄ grafted on C, N co-doped ZnO micro-flowers with booming solar photocatalytic activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 77, 393-407	6.3	43
37	Recent advances on state-of-the-art copper (I/II) oxide as photoelectrode for solar green fuel generation: Challenges and mitigation strategies. <i>Applied Catalysis A: General</i> , 2019 , 582, 117104	5.1	13
36	Enhancement of visible light photocatalytic hydrogen evolution by bio-mimetic C-doped graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13098-13105	6.7	29
35	Introduction to Green Polymeric Membranes 2019 , 95-116		1
34	Revealing the role of kapok fibre as bio-template for In-situ construction of C-doped g-C ₃ N ₄ @C, N co-doped TiO ₂ core-shell heterojunction photocatalyst and its photocatalytic hydrogen production performance. <i>Applied Surface Science</i> , 2019 , 476, 205-220	6.7	46
33	Highly photoactive Cu ₂ O nanowire film prepared with modified scalable synthesis method for enhanced photoelectrochemical performance. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 237-245	6.4	28
32	Concurrent growth, structural and photocatalytic properties of hybridized C, N co-doped TiO ₂ mixed phase over g-C ₃ N ₄ nanostructured. <i>Scripta Materialia</i> , 2018 , 142, 143-147	5.6	34
31	Hybrid membrane filtration-advanced oxidation processes for removal of pharmaceutical residue. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 236-260	9.3	98
30	In-depth understanding of core-shell nanoarchitecture evolution of g-C ₃ N ₄ @C, N co-doped anatase/rutile: Efficient charge separation and enhanced visible-light photocatalytic performance. <i>Applied Surface Science</i> , 2018 , 436, 302-318	6.7	45
29	Enhancement in photocatalytic degradation of methylene blue by LaFeO ₃ -GO integrated photocatalyst-adsorbents under visible light irradiation. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 548-556	2.8	18
28	Incorporation of thermally labile additives in carbon membrane development for superior gas permeation performance. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 49, 376-384	4.6	24
27	Photocatalytic properties of two-dimensional graphene and layered transition-metal dichalcogenides based photocatalyst for photoelectrochemical hydrogen generation: An overview. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18925-18945	6.7	53
26	Development of novel thin film nanocomposite forward osmosis membranes containing halloysite/graphitic carbon nitride nanoparticles towards enhanced desalination performance. <i>Desalination</i> , 2018 , 447, 18-28	10.3	41
25	Constructing bio-templated 3D porous microtubular C-doped g-C ₃ N ₄ with tunable band structure and enhanced charge carrier separation. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 265-279	21.8	131

24	Photocatalytic degradation of phenol over visible light active ZnO/Ag ₂ CO ₃ /Ag ₂ O nanocomposites heterojunction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 602-612	4-7	38
23	Stability of SPEEK/Cloisite μ /TAP nanocomposite membrane under Fenton reagent condition for direct methanol fuel cell application. <i>Polymer Degradation and Stability</i> , 2017 , 137, 83-99	4-7	19
22	Fourier Transform Infrared (FTIR) Spectroscopy 2017 , 3-29		39
21	Physicochemical characterization of cellulose nanocrystal and nanoporous self-assembled CNC membrane derived from Ceiba pentandra. <i>Carbohydrate Polymers</i> , 2017 , 157, 1892-1902	10-3	65
20	An overview on cellulose-based material in tailoring bio-hybrid nanostructured photocatalysts for water treatment and renewable energy applications. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 1232-1256	7-9	95
19	Dual-layer hollow fiber MT-SOFC using lithium doped CGO electrolyte fabricated via phase-inversion technique. <i>Solid State Ionics</i> , 2017 , 304, 113-125	3-3	4
18	Immobilization of TiO ₂ into polyethersulfone matrix as hybrid film photocatalyst for effective degradation of methyl orange dye. <i>Materials Science in Semiconductor Processing</i> , 2017 , 57, 157-165	4-3	91
17	Carbon as amorphous shell and interstitial dopant in mesoporous rutile TiO ₂ : Bio-template assisted sol-gel synthesis and photocatalytic activity. <i>Applied Surface Science</i> , 2017 , 393, 46-59	6-7	79
16	Physicochemical characteristic of regenerated cellulose/N-doped TiO ₂ nanocomposite membrane fabricated from recycled newspaper with photocatalytic activity under UV and visible light irradiation. <i>Chemical Engineering Journal</i> , 2016 , 284, 202-215	14-7	117
15	The Utilization of Recycled Newspaper in the Production of Cellulose Microfiber. <i>Advanced Materials Research</i> , 2016 , 1133, 644-648	0-5	5
14	Preparation and performance of PVDF-based nanocomposite membrane consisting of TiO ₂ nanofibers for organic pollutant decomposition in wastewater under UV irradiation. <i>Desalination</i> , 2016 , 391, 89-97	10-3	66
13	Regenerated cellulose membrane as bio-template for in-situ growth of visible-light driven C-modified mesoporous titania. <i>Carbohydrate Polymers</i> , 2016 , 146, 166-73	10-3	54
12	Biopolymer-based electrolyte membranes from chitosan incorporated with montmorillonite-crosslinked GPTMS for direct methanol fuel cells. <i>RSC Advances</i> , 2016 , 6, 2314-2322	3-7	44
11	ELECTROSPUN NANOFIBER-COATED MEMBRANE: A REVIEW. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1-2	1
10	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
9	Incorporation of N-doped TiO ₂ nanorods in regenerated cellulose thin films fabricated from recycled newspaper as a green portable photocatalyst. <i>Carbohydrate Polymers</i> , 2015 , 133, 429-37	10-3	68
8	Role of lithium oxide as a sintering aid for a CGO electrolyte fabricated via a phase inversion technique. <i>RSC Advances</i> , 2015 , 5, 58154-58162	3-7	11
7	Physicochemical properties of green nanocrystalline cellulose isolated from recycled newspaper. <i>RSC Advances</i> , 2015 , 5, 29842-29849	3-7	100

6	Feasibility of recycled newspaper as cellulose source for regenerated cellulose membrane fabrication. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	36
5	Photodegradation of phenol by N-Doped TiO ₂ anatase/rutile nanorods assembled microsphere under UV and visible light irradiation. <i>Materials Chemistry and Physics</i> , 2015 , 162, 113-123	4.4	47
4	Structural characterization of N-doped anatase/rutile mixed phase TiO ₂ nanorods assembled microspheres synthesized by simple sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 74, 513-520	2.3	30
3	Preparation and Photocatalytic Activity of Mixed Phase Anatase/rutile TiO ₂ Nanoparticles for Phenol Degradation. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 70,	1.2	3
2	Surface Physicochemistry Modification and Structural Nanoarchitectures of g-C ₃ N ₄ for Wastewater Remediation and Solar Fuel Generation. <i>Advanced Materials Technologies</i> , 2100993	6.8	1
1	Application of Biorenewable-Based Photocatalytic Membranes in Wastewater Treatment. <i>ACS Symposium Series</i> , 237-257	0.4	