

Mohamad Azuwa Mohamed

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7976860/publications.pdf>

Version: 2024-02-01

55
papers

2,636
citations

159358

30
h-index

189595

50
g-index

65
all docs

65
docs citations

65
times ranked

3248
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.8	202
2	Hybrid membrane filtration-advanced oxidation processes for removal of pharmaceutical residue. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 236-260.	5.0	164
3	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.	6.6	147
4	Physicochemical properties of "green" nanocrystalline cellulose isolated from recycled newspaper. <i>RSC Advances</i> , 2015, 5, 29842-29849.	1.7	132
5	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.	3.6	131
6	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.	1.9	114
7	Fourier Transform Infrared (FTIR) Spectroscopy. , 2017, , 3-29.		102
8	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.	3.1	92
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, 429-437.	5.1	85
10	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.	4.0	85
11	Physicochemical characterization of cellulose nanocrystal and nanoporous self-assembled CNC membrane derived from Ceiba pentandra. <i>Carbohydrate Polymers</i> , 2017, 157, 1892-1902.	5.1	85
12	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.	3.8	83
13	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.	3.1	66
14	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.	3.7	66
15	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.	2.9	64
16	Regenerated cellulose membrane as bio-template for in-situ growth of visible-light driven C-modified mesoporous titania. <i>Carbohydrate Polymers</i> , 2016, 146, 166-173.	5.1	63
17	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.	4.0	62
18	Biopolymer-based electrolyte membranes from chitosan incorporated with montmorillonite-crosslinked GPTMS for direct methanol fuel cells. <i>RSC Advances</i> , 2016, 6, 2314-2322.	1.7	60

#	ARTICLE	IF	CITATIONS
19	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.	2.0	54
20	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.	3.1	54
21	Feasibility of recycled newspaper as cellulose source for regenerated cellulose membrane fabrication. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	51
22	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.	2.0	49
23	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.	3.8	48
24	Photocatalytic active metal-organic framework and its derivatives for solar-driven environmental remediation and renewable energy. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214639.	9.5	45
25	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.	2.6	42
26	Membranes for hydrogen separation: a significant review. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 1859-1881.	1.5	38
27	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.	3.0	37
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.	2.1	36
29	Stability of SPEEK/Cloisite [®] /TAP nanocomposite membrane under Fenton reagent condition for direct methanol fuel cell application. <i>Polymer Degradation and Stability</i> , 2017, 137, 83-99.	2.7	33
30	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.	3.9	33
31	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.	1.1	32
32	Cobalt oxide as photocatalyst for water splitting: Temperature-dependent phase structures. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25495-25504.	3.8	32
33	Enhancement in photocatalytic degradation of methylene blue by LaFeO ₃ -CO integrated photocatalyst-adsorbents under visible light irradiation. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 548-556.	1.2	26
34	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.	2.6	23
35	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.	1.1	23
36	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.	2.8	20

#	ARTICLE	IF	CITATIONS
37	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.	1.6	20
38	BiFeO ₃ immobilized within liquid natural rubber-based hydrogel with enhanced adsorption-photocatalytic performance. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1495-1506.	3.6	20
39	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.	2.2	19
40	Surface Physicochemistry Modification and Structural Nanoarchitectures of g-C ₃ N ₄ for Wastewater Remediation and Solar Fuel Generation. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	19
41	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.	1.7	13
42	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.	1.2	9
43	The Utilization of Recycled Newspaper in the Production of Cellulose Microfiber. <i>Advanced Materials Research</i> , 2016, 1133, 644-648.	0.3	6
44	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.	1.3	5
45	Features of metal oxide colloidal nanocrystal characterization. , 2020, , 83-122.		5
46	Photocatalytic materials-based membranes for efficient water treatment. , 2020, , 209-230.		4
47	Emerging polymeric-based material with photocatalytic functionality for sustainable technologies. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 113, 32-71.	2.9	4
48	Preparation and Photocatalytic Activity of Mixed Phase Anatase/rutile TiO ₂ Nanoparticles for Phenol Degradation. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014, 70, .	0.3	3
49	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.	2.2	2
50	Application of Self-supported Materials for Photo and Photoelectrocatalysis. <i>Engineering Materials</i> , 2020, , 57-82.	0.3	2
51	ELECTROSPUN NANOFIBER-COATED MEMBRANE: A REVIEW. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	1
52	THE INFLUENCE OF CARBONIZATION TEMPERATURE ON THE DEVELOPMENT OF CARBON MEMBRANE WITH SUPERIOR CO ₂ /CH ₄ SEPARATION PERFORMANCE. <i>Malaysian Journal of Analytical Sciences</i> , 2017, 21, 409-415.	0.2	1
53	Application of Hybrid Polymeric Materials as Photocatalyst in Textile Wastewater. <i>Sustainable Textiles</i> , 2022, , 101-143.	0.4	1
54	EFFECT OF P84 (BTDA-TDI/MDI) COMPOSITION TOWARDS THE PERFORMANCE OF THE DISK SUPPORTED CARBON MEMBRANE. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2017, 79, .	0.3	0

#	ARTICLE	IF	CITATIONS
55	Application of Biorenewable-Based Photocatalytic Membranes in Wastewater Treatment. ACS Symposium Series, 0, , 237-257.	0.5	0