

# Mohd Dzul Hakim Wirzal

## List of Publications by Year in descending order

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48  
papers

988  
citations

430874

18  
h-index

477307

29  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crosslinked chitosan/poly(vinyl alcohol) nanofibers functionalized by ionic liquid for heavy metal ions removal. International Journal of Biological Macromolecules, 2022, 195, 132-141.	7.5	27
2	Techno-economic analysis of an integrated electrocoagulation-membrane system in treatment of palm oil mill effluent. Journal of King Saud University - Science, 2022, 34, 102015.	3.5	3
3	A Rotary Spacer System for Energy-Efficient Membrane Fouling Control in Oil/Water Emulsion Filtration. Membranes, 2022, 12, 554.	3.0	6
4	Process modelling and techno economic analysis for optimal design of integrated electrocoagulation-membrane system for dye removal in wastewater. Chemosphere, 2022, 306, 135623.	8.2	10
5	Recent Development on Electrospun Nanofiber Membrane for Produced Water Treatment: A review. Journal of Environmental Chemical Engineering, 2021, 9, 104613.	6.7	47
6	Inclined forward osmosis module system for fouling control in sustainable produced water treatment using seawater as draw solution. Journal of Water Process Engineering, 2021, 40, 101752.	5.6	10
7	Nifedipine degradation by an electro-oxidation process using titanium-based RuO <sub>2</sub> –IrO <sub>2</sub> –TiO <sub>2</sub> mixed metal oxide electrode. Chemical Papers, 2021, 75, 681-690.	2.2	6
8	Explication of hydrophobic silica as effective pore former for membrane fabrication. Applied Surface Science Advances, 2021, 3, 100051.	6.8	15
9	Ionic Liquid Blend Thin Film Composite Membrane for Carbon Dioxide Separation. IOP Conference Series: Materials Science and Engineering, 2021, 1142, 012013.	0.6	2
10	[EMIM][Tf <sub>2</sub> N]-Modified Silica as Filler in Mixed Matrix Membrane for Carbon Dioxide Separation. Membranes, 2021, 11, 371.	3.0	7
11	Current perspectives of anodized TiO <sub>2</sub> nanotubes towards photodegradation of formaldehyde: A short review. Environmental Technology and Innovation, 2021, 22, 101418.	6.1	18
12	Review on current approach for treatment of palm oil mill effluent: Integrated system. Journal of Environmental Management, 2021, 286, 112209.	7.8	18
13	COSMO-RS prediction and experimental investigation of amino acid ionic liquid-based deep eutectic solvents for copper removal. Journal of Molecular Liquids, 2021, 333, 115884.	4.9	23
14	Electrospun polylactic acid/ tungsten oxide/ amino-functionalized carbon quantum dots (PLA/WO <sub>3</sub> /N-CQDs) fibers for oil/water separation and photocatalytic decolorization. Journal of Environmental Chemical Engineering, 2021, 9, 106033.	6.7	18
15	A review on nanofibers membrane with amino-based ionic liquid for heavy metal removal. Journal of Molecular Liquids, 2020, 297, 111793.	4.9	99
16	Integrated Biorefinery of Empty Fruit Bunch from Palm Oil Industries to Produce Valuable Biochemicals. Processes, 2020, 8, 868.	2.8	14
17	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. Polymers, 2020, 12, 1807.	4.5	12
18	Integrated Membrane–Electrocoagulation System for Removal of Celestine Blue Dyes in Wastewater. Membranes, 2020, 10, 184.	3.0	28

#	ARTICLE	IF	CITATIONS
19	Insight into the Sustainable Integration of Bio- and Petroleum Refineries for the Production of Fuels and Chemicals. <i>Polymers</i> , 2020, 12, 1091.	4.5	17
20	Electrochemical stability on 1-ethyl-3-methylimidazolium bis (trifluoromethyl sulfonyl) imide ionic liquid for dye sensitized solar cell application. <i>Journal of Molecular Liquids</i> , 2020, 313, 113594.	4.9	21
21	Electrospun Porous Polylactic Acid Fibers Containing CdS for Degradation of Methylene Blue. <i>Fibers and Polymers</i> , 2020, 21, 1212-1221.	2.1	14
22	Visible Light Photodegradation of Formaldehyde over TiO <sub>2</sub> Nanotubes Synthesized via Electrochemical Anodization of Titanium Foil. <i>Nanomaterials</i> , 2020, 10, 128.	4.1	33
23	Improved Nylon 6,6 Nanofiber Membrane in A Tilted Panel Filtration System for Fouling Control in Microalgae Harvesting. <i>Polymers</i> , 2020, 12, 252.	4.5	23
24	Choline-Based Ionic Liquids-Incorporated IRMOF-1 for H <sub>2</sub> S/CH <sub>4</sub> Capture: Insight from Molecular Dynamics Simulation. <i>Processes</i> , 2020, 8, 412.	2.8	10
25	Immobilized carbon-doped TiO <sub>2</sub> in polyamide fibers for the degradation of methylene blue. <i>Journal of Asian Ceramic Societies</i> , 2019, 7, 321-330.	2.3	30
26	Well connection optimization in integrated subsurface and surface facilities: an industrial case study. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2921-2926.	2.4	1
27	Electrospun Nylon 6,6/ZIF-8 Nanofiber Membrane for Produced Water Filtration. <i>Water (Switzerland)</i> , 2019, 11, 2111.	2.7	19
28	CO <sub>2</sub> -Philic [EMIM][Tf <sub>2</sub> N] Modified Silica in Mixed Matrix Membrane for High Performance CO <sub>2</sub> /CH <sub>4</sub> Separation. <i>Advances in Polymer Technology</i> , 2019, 1-10.	1.7	11
29	Iron oxide nanoparticles incorporated polyethersulfone electrospun nanofibrous membranes for effective oil removal. <i>Chemical Engineering Research and Design</i> , 2019, 148, 142-154.	5.6	34
30	Sequencing batch membrane photobioreactor for simultaneous cultivation of aquaculture feed and polishing of real secondary effluent. <i>Journal of Water Process Engineering</i> , 2019, 29, 100779.	5.6	16
31	Improving Performance of Electrospun Nylon 6,6 Nanofiber Membrane for Produced Water Filtration via Solvent Vapor Treatment. <i>Polymers</i> , 2019, 11, 2117.	4.5	37
32	Fabrication of polyethersulfone electrospun nanofibrous membranes incorporated with hydrous manganese dioxide for enhanced ultrafiltration of oily solution. <i>Separation and Purification Technology</i> , 2019, 212, 205-214.	7.9	43
33	Techno-economic analysis of biodiesel production process from waste cooking oil using catalytic membrane reactor and realistic feed composition. <i>Chemical Engineering Research and Design</i> , 2018, 134, 564-574.	5.6	32
34	Exploiting the Interplay between Liquid-Liquid Demixing and Crystallization of the PVDF Membrane for Membrane Distillation. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-10.	2.7	14
35	Biogas production from chicken food waste and cow manure via multi-stages anaerobic digestion. <i>AIP Conference Proceedings</i> , 2018, .	0.4	8
36	Two-way switch: Maximizing productivity of tilted panel in membrane bioreactor. <i>Journal of Environmental Management</i> , 2018, 228, 529-537.	7.8	24

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37	Development of Polyvinylidene fluoride (PVDF)-ZIF-8 Membrane for Wastewater Treatment. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012021.	0.3	13
38	Energy minimization of a tilted panel filtration system for microalgae filtration: Performance modeling and optimization. Algal Research, 2018, 34, 104-115.	4.6	20
39	Producing Biodiesel from Waste Cooking Oil with Catalytic Membrane Reactor: Process Design and Sensitivity Analysis. Arabian Journal for Science and Engineering, 2018, 43, 6261-6269.	3.0	13
40	Tackling membrane fouling in microalgae filtration using nylon 6,6 nanofiber membrane. Journal of Environmental Management, 2018, 223, 23-28.	7.8	43
41	Limitation in Fabricating PSf/ZIF-8 Hollow Fiber Membrane for CO <sub>2</sub> /CH <sub>4</sub> Separation. Indonesian Journal of Science and Technology, 2018, 3, 138.	1.5	3
42	Tilted membrane panel: A new module concept to maximize the impact of air bubbles for membrane fouling control in microalgae harvesting. Bioresource Technology, 2017, 241, 661-668.	9.6	71
43	Molecular dynamics simulation of membrane in room temperature ionic liquids. AIP Conference Proceedings, 2017, , .	0.4	2
44	Assessment of nylon 6, 6 nanofibre membrane for microalgae harvesting. AIP Conference Proceedings, 2017, , .	0.4	15
45	Photocatalytic activity and reusability of ZnO layer synthesised by electrolysis, hydrogen peroxide and heat treatment. Environmental Technology (United Kingdom), 2016, 37, 1875-1882.	2.2	17
46	Methods for the Determination of Endocrine-Disrupting Phthalate Esters. Critical Reviews in Analytical Chemistry, 2016, 46, 146-159.	3.5	38
47	Effect of Solvent Vapor Treatment on Electrospun Nylon 6,6 Nanofiber Membrane. IOP Conference Series: Materials Science and Engineering, 0, 429, 012019.	0.6	3
48	The Effect of Concentration Staging on Performance of Produced Water treatment using Forward Osmosis. IOP Conference Series: Materials Science and Engineering, 0, 429, 012021.	0.6	0