

Mohd Dzul Hakim Wirzal

List of Publications by Year in descending order

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48
papers

988
citations

430874

18
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477307

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49
docs citations

49
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on nanofibers membrane with amino-based ionic liquid for heavy metal removal. <i>Journal of Molecular Liquids</i> , 2020, 297, 111793.	4.9	99
2	Tilted membrane panel: A new module concept to maximize the impact of air bubbles for membrane fouling control in microalgae harvesting. <i>Bioresource Technology</i> , 2017, 241, 661-668.	9.6	71
3	Recent Development on Electrospun Nanofiber Membrane for Produced Water Treatment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104613.	6.7	47
4	Tackling membrane fouling in microalgae filtration using nylon 6,6 nanofiber membrane. <i>Journal of Environmental Management</i> , 2018, 223, 23-28.	7.8	43
5	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
6	Methods for the Determination of Endocrine-Disrupting Phthalate Esters. <i>Critical Reviews in Analytical Chemistry</i> , 2016, 46, 146-159.	3.5	38
7	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
8	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
9	Visible Light Photodegradation of Formaldehyde over TiO ₂ Nanotubes Synthesized via Electrochemical Anodization of Titanium Foil. <i>Nanomaterials</i> , 2020, 10, 128.	4.1	33
10	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
11	Immobilized carbon-doped TiO ₂ in polyamide fibers for the degradation of methylene blue. <i>Journal of Asian Ceramic Societies</i> , 2019, 7, 321-330.	2.3	30
12	Integrated Membrane Electrocoagulation System for Removal of Celestine Blue Dyes in Wastewater. <i>Membranes</i> , 2020, 10, 184.	3.0	28
13	Crosslinked chitosan/poly(vinyl alcohol) nanofibers functionalized by ionic liquid for heavy metal ions removal. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 132-141.	7.5	27
14	Two-way switch: Maximizing productivity of tilted panel in membrane bioreactor. <i>Journal of Environmental Management</i> , 2018, 228, 529-537.	7.8	24
15	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
16	COSMO-RS prediction and experimental investigation of amino acid ionic liquid-based deep eutectic solvents for copper removal. <i>Journal of Molecular Liquids</i> , 2021, 333, 115884.	4.9	23
17	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
18	Energy minimization of a tilted panel filtration system for microalgae filtration: Performance modeling and optimization. <i>Algal Research</i> , 2018, 34, 104-115.	4.6	20

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19	Electrospun Nylon 6,6/ZIF-8 Nanofiber Membrane for Produced Water Filtration. <i>Water</i> (Switzerland), 2019, 11, 2111.	2.7	19
20	Current perspectives of anodized TiO ₂ nanotubes towards photodegradation of formaldehyde: A short review. <i>Environmental Technology and Innovation</i> , 2021, 22, 101418.	6.1	18
21	Review on current approach for treatment of palm oil mill effluent: Integrated system. <i>Journal of Environmental Management</i> , 2021, 286, 112209.	7.8	18
22	Electrospun polylactic acid/ tungsten oxide/ amino-functionalized carbon quantum dots (PLA/WO ₃ /N-CQDs) fibers for oil/water separation and photocatalytic decolorization. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106033.	6.7	18
23	Photocatalytic activity and reusability of ZnO layer synthesised by electrolysis, hydrogen peroxide and heat treatment. <i>Environmental Technology</i> (United Kingdom), 2016, 37, 1875-1882.	2.2	17
24	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
25	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
26	Assessment of nylon 6, 6 nanofibre membrane for microalgae harvesting. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	15
27	Explication of hydrophobic silica as effective pore former for membrane fabrication. <i>Applied Surface Science Advances</i> , 2021, 3, 100051.	6.8	15
28	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
29	Integrated Biorefinery of Empty Fruit Bunch from Palm Oil Industries to Produce Valuable Biochemicals. <i>Processes</i> , 2020, 8, 868.	2.8	14
30	Electrospun Porous Polylactic Acid Fibers Containing CdS for Degradation of Methylene Blue. <i>Fibers and Polymers</i> , 2020, 21, 1212-1221.	2.1	14
31	Development of Polyvinylidene fluoride (PVDF)-ZIF-8 Membrane for Wastewater Treatment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 140, 012021.	0.3	13
32	Producing Biodiesel from Waste Cooking Oil with Catalytic Membrane Reactor: Process Design and Sensitivity Analysis. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 6261-6269.	3.0	13
33	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. <i>Polymers</i> , 2020, 12, 1807.	4.5	12
34	CO ₂ -Philic [EMIM][Tf ₂ N] Modified Silica in Mixed Matrix Membrane for High Performance CO ₂ /CH ₄ Separation. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-10.	1.7	11
35	Choline-Based Ionic Liquids-Incorporated IRMOF-1 for H ₂ S/CH ₄ Capture: Insight from Molecular Dynamics Simulation. <i>Processes</i> , 2020, 8, 412.	2.8	10
36	Inclined forward osmosis module system for fouling control in sustainable produced water treatment using seawater as draw solution. <i>Journal of Water Process Engineering</i> , 2021, 40, 101752.	5.6	10

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37	Process modelling and techno economic analysis for optimal design of integrated electrocoagulation-membrane system for dye removal in wastewater. <i>Chemosphere</i> , 2022, 306, 135623.	8.2	10
38	Biogas production from chicken food waste and cow manure via multi-stages anaerobic digestion. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	8
39	[EMIM][Tf2N]-Modified Silica as Filler in Mixed Matrix Membrane for Carbon Dioxide Separation. <i>Membranes</i> , 2021, 11, 371.	3.0	7
40	Nifedipine degradation by an electro-oxidation process using titanium-based RuO ₂ â€“IrO ₂ â€“TiO ₂ mixed metal oxide electrode. <i>Chemical Papers</i> , 2021, 75, 681-690.	2.2	6
41	A Rotary Spacer System for Energy-Efficient Membrane Fouling Control in Oil/Water Emulsion Filtration. <i>Membranes</i> , 2022, 12, 554.	3.0	6
42	Effect of Solvent Vapor Treatment on Electrospun Nylon 6,6 Nanofiber Membrane. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 429, 012019.	0.6	3
43	Limitation in Fabricating PSf/ZIF-8 Hollow Fiber Membrane for CO ₂ /CH ₄ Separation. <i>Indonesian Journal of Science and Technology</i> , 2018, 3, 138.	1.5	3
44	Techno-economic analysis of an integrated electrocoagulation-membrane system in treatment of palm oil mill effluent. <i>Journal of King Saud University - Science</i> , 2022, 34, 102015.	3.5	3
45	Molecular dynamics simulation of membrane in room temperature ionic liquids. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
46	Ionic Liquid Blend Thin Film Composite Membrane for Carbon Dioxide Separation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1142, 012013.	0.6	2
47	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
48	The Effect of Concentration Staging on Performance of Produced Water treatment using Forward Osmosis. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 429, 012021.	0.6	0