

# Muhammad Bilad

## List of Publications by Year in descending order

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212  
papers

5,996  
citations

76326

40  
h-index

106344

65  
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213  
all docs

213  
docs citations

213  
times ranked

4898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Patent landscape review on biodiesel production: Technology updates. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 118, 109526.	16.4	298
2	Membrane technology in microalgae cultivation and harvesting: A review. <i>Biotechnology Advances</i> , 2014, 32, 1283-1300.	11.7	255
3	Harvesting microalgal biomass using submerged microfiltration membranes. <i>Bioresource Technology</i> , 2012, 111, 343-352.	9.6	208
4	ZIF-67 filled PDMS mixed matrix membranes for recovery of ethanol via pervaporation. <i>Separation and Purification Technology</i> , 2018, 206, 50-58.	7.9	156
5	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. <i>Chemical Engineering Research and Design</i> , 2021, 146, 220-256.	5.6	141
6	Membrane photobioreactors for integrated microalgae cultivation and nutrient remediation of membrane bioreactors effluent. <i>Bioresource Technology</i> , 2014, 163, 228-235.	9.6	133
7	Polymeric membranes for desalination using membrane distillation: A review. <i>Desalination</i> , 2020, 490, 114530.	8.2	130
8	Harvesting microalgal biomass using a magnetically induced membrane vibration (MMV) system: Filtration performance and energy consumption. <i>Bioresource Technology</i> , 2013, 138, 329-338.	9.6	119
9	Understanding wetting phenomena in membrane distillation and how operational parameters can affect it. <i>Journal of Membrane Science</i> , 2016, 515, 163-174.	8.2	119
10	Novel magnetically induced membrane vibration (MMV) for fouling control in membrane bioreactors. <i>Water Research</i> , 2012, 46, 63-72.	11.3	114
11	Recent progress in integrated fixed-film activated sludge process for wastewater treatment: A review. <i>Journal of Environmental Management</i> , 2020, 268, 110718.	7.8	107
12	Coupled cultivation and pre-harvesting of microalgae in a membrane photobioreactor (MPBR). <i>Bioresource Technology</i> , 2014, 155, 410-417.	9.6	105
13	Anaerobic membrane bioreactors for biohydrogen production: Recent developments, challenges and perspectives. <i>Bioresource Technology</i> , 2018, 269, 452-464.	9.6	100
14	Direct sewage up-concentration by submerged aerated and vibrated membranes. <i>Bioresource Technology</i> , 2012, 118, 1-7.	9.6	73
15	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
16	Flux stabilization in membrane distillation desalination of seawater and brine using corrugated PVDF membranes. <i>Journal of Membrane Science</i> , 2015, 495, 404-414.	8.2	70
17	Sequencing batch membrane photobioreactor for real secondary effluent polishing using native microalgae: Process performance and full-scale projection. <i>Journal of Cleaner Production</i> , 2017, 168, 708-715.	9.3	70
18	Mixed matrix membranes comprising of polysulfone and microporous Bio-MOF-1: Preparation and gas separation properties. <i>Separation and Purification Technology</i> , 2019, 210, 442-451.	7.9	68

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19	Co-electrolysis for power-to-methanol applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 95, 227-241.	16.4	67
20	A comparative study of image analysis and porometry techniques for characterization of porous membranes. <i>Journal of Materials Science</i> , 2016, 51, 2017-2032.	3.7	66
21	Development of highly permeable and selective mixed matrix membranes based on Pebax®1657 and NOTT-300 for CO <sub>2</sub> capture. <i>Separation and Purification Technology</i> , 2020, 234, 116101.	7.9	64
22	Updated review on microplastics in water, their occurrence, detection, measurement, environmental pollution, and the need for regulatory standards. <i>Environmental Pollution</i> , 2022, 292, 118421.	7.5	63
23	Assessment and optimization of electrospun nanofiber-membranes in a membrane bioreactor (MBR). <i>Journal of Membrane Science</i> , 2011, 380, 181-191.	8.2	62
24	Mixed matrix membranes based on polysulfone and rice husk extracted silica for CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2016, 170, 122-129.	7.9	59
25	Development of Hydrophilic PVDF Membrane Using Vapour Induced Phase Separation Method for Produced Water Treatment. <i>Membranes</i> , 2020, 10, 121.	3.0	59
26	Impact of changes in broth composition on <i>Chlorella vulgaris</i> cultivation in a membrane photobioreactor (MPBR) with permeate recycle. <i>Bioresource Technology</i> , 2014, 152, 321-328.	9.6	54
27	Leaching of PVP from PVDF/PVP blend membranes: impacts on membrane structure and fouling in membrane bioreactors. <i>Journal of Materials Science</i> , 2016, 51, 4328-4341.	3.7	54
28	SO <sub>3</sub> H functionalized UiO-66 nanocrystals in Polysulfone based mixed matrix membranes: Synthesis and application for efficient CO <sub>2</sub> capture. <i>Separation and Purification Technology</i> , 2019, 224, 524-533.	7.9	54
29	On the effect of fumed silica particles on the structure, properties and application of PVDF membranes. <i>Separation and Purification Technology</i> , 2017, 187, 365-373.	7.9	52
30	Prototype aquaporin-based forward osmosis membrane: Filtration properties and fouling resistance. <i>Desalination</i> , 2018, 445, 75-84.	8.2	52
31	Membrane Surface Patterning as a Fouling Mitigation Strategy in Liquid Filtration: A Review. <i>Polymers</i> , 2019, 11, 1687.	4.5	50
32	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
33	Role of transparent exopolymeric particles in membrane fouling: <i>Chlorella vulgaris</i> broth filtration. <i>Bioresource Technology</i> , 2013, 129, 18-25.	9.6	45
34	Improving Liquid Entry Pressure of Polyvinylidene Fluoride (PVDF) Membranes by Exploiting the Role of Fabrication Parameters in Vapor-Induced Phase Separation (VIPS) and Non-Solvent-Induced Phase Separation (NIPS) Processes. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 181.	2.5	45
35	Gradual PVP leaching from PVDF/PVP blend membranes and its effects on membrane fouling in membrane bioreactors. <i>Separation and Purification Technology</i> , 2019, 213, 276-282.	7.9	45
36	Shrinkage, defect and membrane distillation performance of composite PVDF membranes. <i>Desalination</i> , 2015, 376, 62-72.	8.2	44

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37	Simple and effective corrugation of PVDF membranes for enhanced MBR performance. <i>Journal of Membrane Science</i> , 2015, 475, 91-100.	8.2	44
38	Study of biofilms on PVDF membranes after chemical cleaning by sodium hypochlorite. <i>Separation and Purification Technology</i> , 2015, 141, 314-321.	7.9	43
39	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
40	<i>Eucheuma cottonii</i> Seaweed-Based Biochar for Adsorption of Methylene Blue Dye. <i>Sustainability</i> , 2020, 12, 10318.	3.2	43
41	Development of membrane material for oily wastewater treatment: A review. <i>Ain Shams Engineering Journal</i> , 2021, 12, 1361-1374.	6.1	43
42	Modeling and Optimization of Biochar Based Adsorbent Derived from Kenaf Using Response Surface Methodology on Adsorption of Cd <sup>2+</sup> . <i>Water (Switzerland)</i> , 2021, 13, 999.	2.7	42
43	An energy-efficient membrane rotating biological contactor for wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 282, 124544.	9.3	41
44	Anaerobic digestion of molasses by means of a vibrating and non-vibrating submerged anaerobic membrane bioreactor. <i>Biomass and Bioenergy</i> , 2014, 68, 95-105.	5.7	40
45	Influence of UV curing on morphology and performance of polysulfone membranes containing acrylates. <i>Journal of Membrane Science</i> , 2014, 462, 17-27.	8.2	40
46	Pristine and Magnetic Kenaf Fiber Biochar for Cd <sup>2+</sup> Adsorption from Aqueous Solution. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7949.	2.6	40
47	Effect of membrane properties on tilted panel performance of microalgae biomass filtration for biofuel feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109666.	16.4	38
48	Development of PVDF membranes for membrane distillation via vapour induced crystallisation. <i>European Polymer Journal</i> , 2016, 77, 164-173.	5.4	37
49	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
50	Carbon templated strategies of mesoporous silica applied for water desalination: A review. <i>Journal of Water Process Engineering</i> , 2020, 38, 101520.	5.6	37
51	Development and validation of a high-throughput membrane bioreactor (HT-MBR). <i>Journal of Membrane Science</i> , 2011, 379, 146-153.	8.2	36
52	Comparison of MBR performance and membrane cleaning in a single-stage activated sludge system and a two-stage anaerobic/aerobic (A/A) system for treating synthetic molasses wastewater. <i>Journal of Membrane Science</i> , 2012, 394-395, 49-56.	8.2	36
53	Facile Approaches of Polymeric Face Masks Reuse and Reinforcements for Micro-Aerosol Droplets and Viruses Filtration: A Review. <i>Polymers</i> , 2020, 12, 2516.	4.5	36
54	Biofouling on microfiltration membranes in MBRs: Role of membrane type and microbial community. <i>Journal of Membrane Science</i> , 2014, 453, 394-401.	8.2	34

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55	Nanoscale tuning of enzyme localization for enhanced reactor performance in a novel magnetic-responsive biocatalytic membrane reactor. <i>Journal of Membrane Science</i> , 2015, 487, 209-220.	8.2	33
56	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
57	Tuning the gas separation performance of fluorinated and sulfonated PEEK membranes by incorporation of zeolite 4A. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45952.	2.6	32
58	Synergistic effects of highly selective ionic liquid confined in nanocages: Exploiting the three component mixed matrix membranes for CO <sub>2</sub> capture. <i>Chemical Engineering Research and Design</i> , 2020, 155, 123-132.	5.6	32
59	Low-pressure submerged membrane filtration for potential reuse of detergent and water from laundry wastewater. <i>Journal of Water Process Engineering</i> , 2020, 36, 101264.	5.6	32
60	Decreasing membrane fouling during <i>Chlorella vulgaris</i> broth filtration via membrane development and coagulant assisted filtration. <i>Algal Research</i> , 2015, 9, 55-64.	4.6	31
61	Development of A Novel Corrugated Polyvinylidene difluoride Membrane via Improved Imprinting Technique for Membrane Distillation. <i>Polymers</i> , 2019, 11, 865.	4.5	31
62	Development of Polyvinylidene Fluoride Membrane by Incorporating Bio-Based Ginger Extract as Additive. <i>Polymers</i> , 2020, 12, 2003.	4.5	31
63	Improving Water Permeability of Hydrophilic PVDF Membrane Prepared via Blending with Organic and Inorganic Additives for Humic Acid Separation. <i>Molecules</i> , 2019, 24, 4099.	3.8	28
64	Integrated Membrane-Electrocoagulation System for Removal of Celestine Blue Dyes in Wastewater. <i>Membranes</i> , 2020, 10, 184.	3.0	28
65	Analysis of the microbial community structure in a membrane bioreactor during initial stages of filtration. <i>Biofouling</i> , 2012, 28, 225-238.	2.2	27
66	Study of PVDF asymmetric membranes in a high-throughput membrane bioreactor (HT-MBR): Influence of phase inversion parameters and filtration performance. <i>Separation and Purification Technology</i> , 2016, 162, 6-13.	7.9	27
67	Organic Rankine Cycle (ORC) System Applications for Solar Energy: Recent Technological Advances. <i>Energies</i> , 2019, 12, 2930.	3.1	27
68	An integrated rotating biological contactor and membrane separation process for domestic wastewater treatment. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4257-4265.	6.4	27
69	Moisture Content Impact on Properties of Briquette Produced from Rice Husk Waste. <i>Sustainability</i> , 2021, 13, 3069.	3.2	27
70	A PVC-silica mixed-matrix membrane (MMM) as novel type of membrane bioreactor (MBR) membrane. <i>Journal of Membrane Science</i> , 2015, 493, 19-27.	8.2	26
71	Ribbed PVC-silica mixed matrix membranes for membrane bioreactors. <i>Journal of Membrane Science</i> , 2016, 498, 315-323.	8.2	26
72	Bench-Scale Fixed-Bed Column Study for the Removal of Dye-Contaminated Effluent Using Sewage-Sludge-Based Biochar. <i>Sustainability</i> , 2022, 14, 6484.	3.2	26

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73	Critical Evaluation of the Determination Methods for Transparent Exopolymer Particles, Agents of Membrane Fouling. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 167-192.	12.8	24
74	Two-way switch: Maximizing productivity of tilted panel in membrane bioreactor. <i>Journal of Environmental Management</i> , 2018, 228, 529-537.	7.8	24
75	Engineered spacers for fouling mitigation in pressure driven membrane processes: Progress and projection. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106285.	6.7	24
76	Novel Poly Deep Eutectic Solvents Based Supported Liquid Membranes for CO <sub>2</sub> Capture. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	23
77	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
78	Exploring the potential of highly selective alkanolamine containing deep eutectic solvents based supported liquid membranes for CO <sub>2</sub> capture. <i>Journal of Molecular Liquids</i> , 2021, 340, 117274.	4.9	23
79	A Review on Rotating Biological Contactors. <i>Indonesian Journal of Science and Technology</i> , 2019, 4, 241-256.	1.5	23
80	Two-Step Dopamine-to-Polydopamine Modification of Polyethersulfone Ultrafiltration Membrane for Enhancing Anti-Fouling and Ultraviolet Resistant Properties. <i>Polymers</i> , 2020, 12, 2051.	4.5	22
81	Direct comparison of aerated and vibrated filtration systems for harvesting of <i>Chlorella vulgaris</i> . <i>Algal Research</i> , 2014, 6, 32-38.	4.6	21
82	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
83	Development of Polysulfone Membrane via Vapor-Induced Phase Separation for Oil/Water Emulsion Filtration. <i>Polymers</i> , 2020, 12, 2519.	4.5	20
84	Finned spacer for enhancing the impact of air bubbles for membrane fouling control in <i>Chlorella vulgaris</i> filtration. <i>Bioresource Technology Reports</i> , 2020, 11, 100429.	2.7	20
85	Integrated project-based learning (IPBL) implementation for first year chemical engineering student: DIY hydraulic jack project. <i>Education for Chemical Engineers</i> , 2021, 35, 54-62.	4.8	20
86	Electrospun Nylon 6,6/ZIF-8 Nanofiber Membrane for Produced Water Filtration. <i>Water (Switzerland)</i> , 2019, 11, 2111.	2.7	19
87	Patterned Membrane in an Energy-Efficient Tilted Panel Filtration System for Fouling Control in Activated Sludge Filtration. <i>Polymers</i> , 2020, 12, 432.	4.5	19
88	Polyvinylidene Fluoride Membrane Via Vapour Induced Phase Separation for Oil/Water Emulsion Filtration. <i>Polymers</i> , 2021, 13, 427.	4.5	19
89	FABRICATION OF POLYETHERSULFONE MEMBRANES USING NANOCARBON AS ADDITIVE. <i>International Journal of GEOMATE</i> , 2018, 15, .	0.3	19
90	Response Surface Methodology for Optimization of Rotating Biological Contactor Combined with External Membrane Filtration for Wastewater Treatment. <i>Membranes</i> , 2022, 12, 271.	3.0	19

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91	Development of Hybrid and Templated Silica-P123 Membranes for Brackish Water Desalination. <i>Polymers</i> , 2020, 12, 2644.	4.5	18
92	<i>Chlorella vulgaris</i> broth harvesting via standalone forward osmosis using seawater draw solution. <i>Bioresource Technology Reports</i> , 2020, 9, 100394.	2.7	18
93	Development of Biosorbent Derived from the Endocarp Waste of Gayo Coffee for Lead Removal in Liquid Wastewater—Effects of Chemical Activators. <i>Sustainability</i> , 2021, 13, 3050.	3.2	18
94	Development of Polyvinylidene Fluoride Membrane via Assembly of Tannic Acid and Polyvinylpyrrolidone for Filtration of Oil/Water Emulsion. <i>Polymers</i> , 2021, 13, 976.	4.5	18
95	Role of transparent copolymer particles on membrane fouling in a full-scale ultrafiltration plant: Feed parameter analysis and membrane autopsy. <i>Bioresource Technology</i> , 2014, 173, 67-74.	9.6	17
96	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
97	Effect of membrane properties in a membrane rotating biological contactor for wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104869.	6.7	17
98	Development of anti-microbial polyvinylidene fluoride (PVDF) membrane using bio-based ginger extract-silica nanoparticles (GE-SiNPs) for bovine serum albumin (BSA) filtration. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 323-331.	5.3	17
99	Application of a magnetically induced membrane vibration (MMV) system for lignocelluloses hydrolysate filtration. <i>Journal of Membrane Science</i> , 2014, 452, 165-170.	8.2	16
100	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
101	Porous Venturi-Orifice Microbubble Generator for Oxygen Dissolution in Water. <i>Processes</i> , 2020, 8, 1266.	2.8	16
102	Performance and Energy Consumption Evaluation of Rotating Biological Contactor for Domestic Wastewater Treatment. <i>Indonesian Journal of Science and Technology</i> , 2021, 6, 101-112.	1.5	16
103	Polymer Film Blend of Polyvinyl Alcohol, Trichloroethylene and Cresol Red for Gamma Radiation Dosimetry. <i>Polymers</i> , 2021, 13, 1866.	4.5	16
104	Production of High Flux Poly(Ether Sulfone) Membrane Using Silica Additive Extracted from Natural Resource. <i>Membranes</i> , 2020, 10, 17.	3.0	16
105	Combination of Coagulation, Adsorption, and Ultrafiltration Processes for Organic Matter Removal from Peat Water. <i>Sustainability</i> , 2022, 14, 370.	3.2	16
106	Assessment of nylon 6, 6 nanofibre membrane for microalgae harvesting. <i>AIP Conference Proceedings</i> , 2017, . .	0.4	15
107	Poly(vinylidene fluoride)-Based Membranes for Microalgae Filtration. <i>Chemical Engineering and Technology</i> , 2018, 41, 1305-1312.	1.5	15
108	Membrane development for improved performance of a magnetically induced vibration system for anaerobic sludge filtration. <i>Separation and Purification Technology</i> , 2018, 200, 120-129.	7.9	15

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109	Explication of hydrophobic silica as effective pore former for membrane fabrication. <i>Applied Surface Science Advances</i> , 2021, 3, 100051.	6.8	15
110	Cigarette Butt Waste as Material for Phase Inverted Membrane Fabrication Used for Oil/Water Emulsion Separation. <i>Polymers</i> , 2021, 13, 1907.	4.5	15
111	Supported liquid membranes comprising of choline chloride based deep eutectic solvents for CO <sub>2</sub> capture: Influence of organic acids as hydrogen bond donor. <i>Journal of Molecular Liquids</i> , 2021, 335, 116155.	4.9	15
112	Supported deep eutectic liquid membranes with highly selective interaction sites for efficient CO <sub>2</sub> separation. <i>Journal of Molecular Liquids</i> , 2021, 342, 117509.	4.9	15
113	Membrane bioreactor for domestic wastewater treatment: principles, challenges and future research directions. <i>Indonesian Journal of Science and Technology</i> , 2017, 2, 97.	1.5	15
114	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
115	Synergistic solution of CO <sub>2</sub> capture by novel lanthanide-based MOF-76 yttrium nanocrystals in mixed-matrix membranes. <i>Energy and Environment</i> , 2020, 31, 692-712.	4.6	14
116	Flow uneven-distribution and its impact on performances of forward osmosis module. <i>Journal of Water Process Engineering</i> , 2020, 33, 101014.	5.6	14
117	Detergent and Water Recovery from Laundry Wastewater Using Tilted Panel Membrane Filtration System. <i>Membranes</i> , 2020, 10, 260.	3.0	14
118	Integrated Biorefinery of Empty Fruit Bunch from Palm Oil Industries to Produce Valuable Biochemicals. <i>Processes</i> , 2020, 8, 868.	2.8	14
119	Ultra low-pressure filtration system for energy efficient microalgae filtration. <i>Heliyon</i> , 2021, 7, e07367.	3.2	14
120	Progress in Emerging Contaminants Removal by Adsorption/Membrane Filtration-Based Technologies: A Review. <i>Indonesian Journal of Science and Technology</i> , 2021, 6, 577-618.	1.5	14
121	Improvement of Properties and Performances of Polyethersulfone Ultrafiltration Membrane by Blending with Bio-Based Dragonbloodin Resin. <i>Polymers</i> , 2021, 13, 4436.	4.5	14
122	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
123	Finned spacer for efficient membrane fouling control in produced water filtration. <i>Journal of Environmental Management</i> , 2019, 249, 109359.	7.8	13
124	Microalgae in Food-Energy-Water Nexus: A Review on Progress of Forward Osmosis Applications. <i>Membranes</i> , 2019, 9, 166.	3.0	13
125	Progress in treatment of oilfield produced water using membrane distillation and potentials for beneficial re-use. <i>Separation and Purification Technology</i> , 2021, 278, 119494.	7.9	13
126	Progress in Development of Nanostructured Manganese Oxide as Catalyst for Oxygen Reduction and Evolution Reaction. <i>Energies</i> , 2021, 14, 6385.	3.1	13



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127	Synergy of high permeability and selectivity of superbase/choline chloride/urea solution impregnated membranes for CO <sub>2</sub> capture. Carbon Capture Science & Technology, 2021, 1, 100019.	10.4	13
128	Simultaneous increase in CO <sub>2</sub> permeability and selectivity by BIT-72 and modified BIT-72 based mixed matrix membranes. Chemical Engineering Research and Design, 2022, 178, 136-147.	5.6	13
129	Long-Term Performance and Stability of Interlayer-Free Mesoporous Silica Membranes for Wetland Saline Water Pervaporation. Polymers, 2022, 14, 895.	4.5	13
130	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. Polymers, 2020, 12, 1807.	4.5	12
131	Effect of Membrane Materials and Operational Parameters on Performance and Energy Consumption of Oil/Water Emulsion Filtration. Membranes, 2021, 11, 370.	3.0	12
132	Theoretical and experimental investigation of CO <sub>2</sub> capture through choline chloride based supported deep eutectic liquid membranes. Journal of Molecular Liquids, 2021, 335, 116234.	4.9	12
133	Isolation and Characterization of Nanocrystalline Cellulose Isolated from Pineapple Crown Leaf Fiber Agricultural Wastes Using Acid Hydrolysis. Polymers, 2021, 13, 4188.	4.5	12
134	Thermophysical Properties of Nanofluid in Two-Phase Fluid Flow through a Porous Rectangular Medium for Enhanced Oil Recovery. Nanomaterials, 2022, 12, 1011.	4.1	12
135	Properties of Biocomposite Film Based on Whey Protein Isolate Filled with Nanocrystalline Cellulose from Pineapple Crown Leaf. Polymers, 2021, 13, 4278.	4.5	12
136	Aspen HYSYS Simulation for Biodiesel Production from Waste Cooking Oil using Membrane Reactor. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012273.	0.6	11
137	Non-linear least-square fitting method for characterization of forward osmosis membrane. Journal of Water Process Engineering, 2018, 25, 70-80.	5.6	11
138	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. Advances in Polymer Technology, 2019, 2019, 1-10.	1.7	11
139	Halloysite Nanotube-Ferrihydrite Incorporated Polyethersulfone Mixed Matrix Membrane: Effect of Nanocomposite Loading on the Antifouling Performance. Polymers, 2021, 13, 441.	4.5	11
140	A Review on Recent Progress in Membrane Distillation Crystallization. ChemBioEng Reviews, 2022, 9, 93-109.	4.4	11
141	Process simulation and economic analysis of biodiesel production from waste cooking oil with membrane bioreactor. AIP Conference Proceedings, 2017, , .	0.4	10
142	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
143	Optical Properties and Conductivity of PVAâ€“H <sub>3</sub> PO <sub>4</sub> (Polyvinyl Alcoholâ€“Phosphoric Acid) Film Blend Irradiated by Î³-Rays. Polymers, 2021, 13, 1065.	4.5	10
144	SYNTHESIS AND CHARACTERIZATION OF CERAMIC MEMBRANE FROM FLY ASH AND CLAY PREPARED BY SINTERING METHOD AT LOW TEMPERATURE. Rasayan Journal of Chemistry, 2020, 13, 1335-1341.	0.4	10

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145	Functionalization of PEG-AgNPs Hybrid Material to Alleviate Biofouling Tendency of Polyethersulfone Membrane. <i>Polymers</i> , 2022, 14, 1908.	4.5	10
146	Treatment of molasses wastewater in a membrane bioreactor: Influence of membrane pore size. <i>Separation and Purification Technology</i> , 2010, 78, 105-105.	7.9	9
147	Development of novel hydrophilic ionic liquid membranes for the recovery of biobutanol through pervaporation. <i>Journal of Environmental Management</i> , 2019, 251, 109618.	7.8	9
148	Multi-objective Sustainability Assessment of Levulinic Acid Production from Empty Fruit Bunch. <i>Process Integration and Optimization for Sustainability</i> , 2020, 4, 37-50.	2.6	9
149	Novel Activated Carbon Nanofibers Compositated with Cost-Effective Graphene-Based Materials for Enhanced Adsorption Performance toward Methane. <i>Polymers</i> , 2020, 12, 2064.	4.5	9
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