## Mohammad Younas

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Recent progress and remaining challenges in post-combustion CO2 capture using metal-organic frameworks (MOFs). Progress in Energy and Combustion Science, 2020, 80, 100849.	31.2	235
2	Recent advances in applications of low-cost adsorbents for the removal of heavy metals from water: A critical review. Separation and Purification Technology, 2021, 278, 119510.	7.9	158
3	An ultrahighly permeable-selective nanofiltration membrane mediated by an <i>in situ</i> formed interlayer. Journal of Materials Chemistry A, 2020, 8, 5275-5283.	10.3	116
4	Current status and challenges in the heterogeneous catalysis for biodiesel production. Renewable and Sustainable Energy Reviews, 2022, 157, 112012.	16.4	114
5	Effect of membrane wetting on the performance of PVDF and PTFE membranes in the concentration of pomegranate juice through osmotic distillation. Journal of Membrane Science, 2019, 584, 66-78.	8.2	56
6	Modeling pre-combustion CO2 capture with tubular membrane contactor using ionic liquids at elevated temperatures. Separation and Purification Technology, 2020, 241, 116677.	7.9	55
7	pH-responsive nanofiltration membrane containing chitosan for dye separation. Journal of Membrane Science, 2021, 635, 119445.	8.2	47
8	Synergistic properties of molybdenum disulfide (MoS2) with electro-active materials for high-performance supercapacitors. International Journal of Hydrogen Energy, 2019, 44, 17470-17492.	7.1	45
9	Pomegranate juice concentration using osmotic distillation with membrane contactor. Separation and Purification Technology, 2019, 224, 481-489.	7.9	45
10	Ultrahigh-efficient separation of Mg2+/Li+ using an in-situ reconstructed positively charged nanofiltration membrane under an electric field. Journal of Membrane Science, 2022, 641, 119880.	8.2	44
11	A Comprehensive Review on Recent Advances in Two-Dimensional (2D) Hexagonal Boron Nitride. ACS Applied Electronic Materials, 2021, 3, 5165-5187.	4.3	42
12	CFD simulation of copper(II) extraction with TFA in non-dispersive hollow fiber membrane contactors. Environmental Science and Pollution Research, 2018, 25, 12053-12063.	5.3	38
13	Fast pyrolysis of sugarcane bagasse: Effect of pyrolysis conditions on final product distribution and properties. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 184-190.	2.3	36
14	Quasi-dynamic modeling of dispersion-free extraction of aroma compounds using hollow fiber membrane contactor. Chemical Engineering Research and Design, 2017, 127, 52-61.	5.6	36
15	Computational fluid dynamic modeling of water desalination using low-energy continuous direct contact membrane distillation process. Applied Thermal Engineering, 2019, 163, 114391.	6.0	36
16	Protic/aprotic ionic liquids for effective CO2 separation using supported ionic liquid membrane. Chemosphere, 2021, 267, 128894.	8.2	33
17	Post-combustion CO2 capture with sweep gas in thin film composite (TFC) hollow fiber membrane (HFM) contactor. Journal of CO2 Utilization, 2020, 40, 101266.	6.8	32
18	Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation. Separation and Purification Technology, 2020, 250, 117209.	7.9	31

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19	Rigorous non-isothermal modeling approach for mass and energy transport during CO2 absorption into aqueous solution of amino acid ionic liquids in hollow fiber membrane contactors. Separation and Purification Technology, 2021, 254, 117644.	7.9	31
20	Enhanced Water Flux by Fabrication of Polysulfone/Alumina Nanocomposite Membrane for Copper(II) Removal. Macromolecular Research, 2019, 27, 565-571.	2.4	29
21	Extraction of aroma compounds in a HFMC: Dynamic modelling and simulation. Journal of Membrane Science, 2008, 323, 386-394.	8.2	28
22	Experimental and theoretical mass transfer transient analysis of copper extraction using hollow fiber membrane contactors. Journal of Membrane Science, 2011, 382, 70-81.	8.2	26
23	Producing water from saline streams using membrane distillation: Modeling and optimization using CFD and design expert. International Journal of Energy Research, 2020, 44, 8841-8853.	4.5	26
24	Investigation of cellulose acetate/gammaâ€cyclodextrin MOF based mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> gas separation. , 2021, 11, 313-330.		23
25	Kinetic and dynamic study of liquid–liquid extraction of copper in a HFMC: Experimentation, modeling, and simulation. AICHE Journal, 2010, 56, 1469-1480.	3.6	22
26	Mathematical modeling of CO <sub>2</sub> absorption with ionic liquids in a membrane contactor, study of absorption kinetics and influence of temperature. Journal of Chemical Technology and Biotechnology, 2020, 95, 1844-1857.	3.2	21
27	Juglone extraction from walnut (Juglans regia L.) green husk by supercritical CO2: Process optimization using Taguchi method. Journal of Environmental Chemical Engineering, 2020, 8, 103776.	6.7	21
28	Biodiesel Production through Heterogeneous Catalysis Using a Novel Poly(phenylene sulfide) Catalytic Membrane. Energy & Fuels, 2020, 34, 7422-7429.	5.1	20
29	A review on hollow fiber membrane module towards high separation efficiency: Process modeling in fouling perspective. Chinese Chemical Letters, 2022, 33, 3594-3602.	9.0	20
30	Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation. Journal of Environmental Chemical Engineering, 2020, 8, 104475.	6.7	18
31	Enhanced removal of cadmium from water using bio-sorbents synthesized from branches and leaves of Capparis decidua and Ziziphus mauritiana. Environmental Technology and Innovation, 2021, 24, 101922.	6.1	17
32	Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review. Environmental Research, 2022, 205, 112402.	7.5	17
33	Preparation of Small-Pore Ultrafiltration Membranes with High Surface Porosity by In Situ CO <sub>2</sub> Nanobubble-Assisted NIPS. ACS Applied Materials & Interfaces, 2022, 14, 8633-8643.	8.0	17
34	Chelated Nitrogen-Sulphur-Codoped TiO <sub>2</sub> : Synthesis, Characterization, Mechanistic, and UV/Visible Photocatalytic Studies. International Journal of Photoenergy, 2017, 2017, 1-17.	2.5	13
35	Mixed Matrix Membranes for Sustainable Electrical Energyâ€Saving Applications. ChemBioEng Reviews, 2021, 8, 27-43.	4.4	12
36	Plasticization- and aging-resistant membranes with venation-like architecture for efficient carbon capture. Journal of Membrane Science, 2020, 609, 118215.	8.2	12

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37	Non-dispersive solvent absorption of post-combustion CO2 in membrane contactors using ionic liquids. Journal of Molecular Liquids, 2022, 351, 118566.	4.9	12
38	Experimental and Theoretical Investigation of Distribution Equilibria and Kinetics of Copper(II) Extraction with LIX 84 I and TFA. Separation Science and Technology, 2015, 50, 1523-1531.	2.5	11
39	Numerical modelling and simulation of membrane-based extraction of copper(II) using hollow fiber contactors. , 0, 63, 113-123.		11
40	A comprehensive overview of dual-layer composite membrane for air (O <sub>2</sub> /N <sub>2</sub> ) separation. Polymers and Polymer Composites, 2021, 29, S1630-S1640.	1.9	11
41	Experimental investigation of polysulfone modified cellulose acetate membrane for CO2/H2 gas separation. Korean Journal of Chemical Engineering, 2022, 39, 189-197.	2.7	11
42	Hydrogen separation from synthesis gas using silica membrane: CFD simulation. International Journal of Hydrogen Energy, 2020, 45, 19381-19390.	7.1	10
43	Osmotic distillation and quality evaluation of sucrose, apple and orange juices in hollow fiber membrane contactor. Chemical Industry and Chemical Engineering Quarterly, 2017, 23, 217-227.	0.7	10
44	Efficiently rejecting and concentrating Li+ by nanofiltration membrane under a reversed electric field. Desalination, 2022, 535, 115825.	8.2	10
45	Multi-ionic electrolytes and E.coli removal from wastewater using chitosan-based in-situ mediated thin film composite nanofiltration membrane. Journal of Environmental Management, 2021, 294, 112996.	7.8	9
46	Prediction bubble point pressure for CO2/CH4 gas mixtures in ionic liquids using intelligent approaches. Emergent Materials, 2021, 4, 565-578.	5.7	8
47	Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation. Environmental Sciences Europe, 2021, 33, .	5.5	7
48	Effects of Coagulation Residence Time on the Morphology and Properties of Poly (vinyl) Alcohol (PVA) Asymmetric Membrane via NIPS Method for O2/N2 Separation. Journal of Polymers and the Environment, 2020, 28, 2810-2822.	5.0	6
49	Synthesis and characterization of inorganic microfiltration membrane through geopolymerization. , 0, 66, 203-209.		6
50	Theoritical analysis and simulation of fiveâ€≢one simulating moving bed for ternary mixture separation. Canadian Journal of Chemical Engineering, 2011, 89, 1480-1491.	1.7	5
51	Reverse osmosis as one-step wastewater treatment: a case study on groundwater pollution. Polish Journal of Chemical Technology, 2015, 17, 42-48.	0.5	5
52	Fabrication and characterization of functionalized nano-silica based transparent superhydrophobic surface. Materials Chemistry and Physics, 2021, 267, 124694.	4.0	4
53	Geopolymerization: a promising technique for membrane synthesis. Materials Research Express, 2021, 8, 112002.	1.6	4
54	Electrocatalytic CO2 fixation by regenerating reduced cofactor NADH during Calvin Cycle using glassy carbon electrode. PLoS ONE, 2020, 15, e0239340.	2.5	3

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55	Metalâ^'Organic Frameworks for Carbon Dioxide Capture. ACS Symposium Series, 0, , 203-238.	0.5	3
56	Esterification of glycerol with acetic acid using a sulfonated polyphenylene sulfide non-woven fabric as a catalyst. International Journal of Chemical Reactor Engineering, 2020, 18, .	1.1	2
57	Hydrogen Fuel Cells and Nanotechnology. Green Energy and Technology, 2021, , 95-103.	0.6	2
58	Performance Evaluation of Hollow Fiber Membrane Contactors for Dispersion-Free Extraction of Cu2+ through Modelling and Simulation. Periodica Polytechnica: Chemical Engineering, 2016, , .	1.1	1
59	Nanotechnology and the Generation of Sustainable Hydrogen. Green Energy and Technology, 2021, , .	0.6	1
60	Studies on Beneficiation of Manganese Ore through High Intensity Magnetic Separator. Advances in Sciences and Engineering, 2020, 12, 21-27.	0.1	1
61	Physisorption. Green Energy and Technology, 2021, , 73-82.	0.6	1
62	Modeling, Simulation and Optimization of Hollow Fiber Membrane Contactors for Dispersion-Free Liquid-Liquid Extraction. Procedia Engineering, 2012, 44, 1268-1270.	1.2	0
63	Effect of membrane wetting on the surface of hydrophobic membranes in Osmotic Distillation. AIP Conference Proceedings, 2019, , .	0.4	0
64	Hydrogen Future: Toward Industrial Applications. Green Energy and Technology, 2021, , 105-109.	0.6	0
65	Chemisorption. Green Energy and Technology, 2021, , 83-93.	0.6	0
66	Double Polyamide Layers with CaCO <sub>3</sub> Nanoparticles as Scaffolds for High Performance Nanofiltration Membranes. ACS Applied Nano Materials, 2022, 5, 8279-8287.	5.0	0