

Mohammad Younas

List of Publications by Year in descending order

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66
papers

1,741
citations

279701

23
h-index

302012

39
g-index

83
all docs

83
docs citations

83
times ranked

1231
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress and remaining challenges in post-combustion CO ₂ capture using metal-organic frameworks (MOFs). <i>Progress in Energy and Combustion Science</i> , 2020, 80, 100849.	15.8	235
2	Recent advances in applications of low-cost adsorbents for the removal of heavy metals from water: A critical review. <i>Separation and Purification Technology</i> , 2021, 278, 119510.	3.9	158
3	An ultrahighly permeable-selective nanofiltration membrane mediated by an <i>in situ</i> formed interlayer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5275-5283.	5.2	116
4	Current status and challenges in the heterogeneous catalysis for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112012.	8.2	114
5	Effect of membrane wetting on the performance of PVDF and PTFE membranes in the concentration of pomegranate juice through osmotic distillation. <i>Journal of Membrane Science</i> , 2019, 584, 66-78.	4.1	56
6	Modeling pre-combustion CO ₂ capture with tubular membrane contactor using ionic liquids at elevated temperatures. <i>Separation and Purification Technology</i> , 2020, 241, 116677.	3.9	55
7	pH-responsive nanofiltration membrane containing chitosan for dye separation. <i>Journal of Membrane Science</i> , 2021, 635, 119445.	4.1	47
8	Synergistic properties of molybdenum disulfide (MoS ₂) with electro-active materials for high-performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17470-17492.	3.8	45
9	Pomegranate juice concentration using osmotic distillation with membrane contactor. <i>Separation and Purification Technology</i> , 2019, 224, 481-489.	3.9	45
10	Ultrahigh-efficient separation of Mg ²⁺ /Li ⁺ using an in-situ reconstructed positively charged nanofiltration membrane under an electric field. <i>Journal of Membrane Science</i> , 2022, 641, 119880.	4.1	44
11	A Comprehensive Review on Recent Advances in Two-Dimensional (2D) Hexagonal Boron Nitride. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5165-5187.	2.0	42
12	CFD simulation of copper(II) extraction with TFA in non-dispersive hollow fiber membrane contactors. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12053-12063.	2.7	38
13	Fast pyrolysis of sugarcane bagasse: Effect of pyrolysis conditions on final product distribution and properties. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 184-190.	1.2	36
14	Quasi-dynamic modeling of dispersion-free extraction of aroma compounds using hollow fiber membrane contactor. <i>Chemical Engineering Research and Design</i> , 2017, 127, 52-61.	2.7	36
15	Computational fluid dynamic modeling of water desalination using low-energy continuous direct contact membrane distillation process. <i>Applied Thermal Engineering</i> , 2019, 163, 114391.	3.0	36
16	Protic/aprotic ionic liquids for effective CO ₂ separation using supported ionic liquid membrane. <i>Chemosphere</i> , 2021, 267, 128894.	4.2	33
17	Post-combustion CO ₂ capture with sweep gas in thin film composite (TFC) hollow fiber membrane (HFM) contactor. <i>Journal of CO₂ Utilization</i> , 2020, 40, 101266.	3.3	32
18	Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation. <i>Separation and Purification Technology</i> , 2020, 250, 117209.	3.9	31

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19	Rigorous non-isothermal modeling approach for mass and energy transport during CO ₂ absorption into aqueous solution of amino acid ionic liquids in hollow fiber membrane contactors. <i>Separation and Purification Technology</i> , 2021, 254, 117644.	3.9	31
20	Enhanced Water Flux by Fabrication of Polysulfone/Alumina Nanocomposite Membrane for Copper(II) Removal. <i>Macromolecular Research</i> , 2019, 27, 565-571.	1.0	29
21	Extraction of aroma compounds in a HFMC: Dynamic modelling and simulation. <i>Journal of Membrane Science</i> , 2008, 323, 386-394.	4.1	28
22	Experimental and theoretical mass transfer transient analysis of copper extraction using hollow fiber membrane contactors. <i>Journal of Membrane Science</i> , 2011, 382, 70-81.	4.1	26
23	Producing water from saline streams using membrane distillation: Modeling and optimization using CFD and design expert. <i>International Journal of Energy Research</i> , 2020, 44, 8841-8853.	2.2	26
24	Investigation of cellulose acetate/gamma-cyclodextrin MOF based mixed matrix membranes for CO ₂ /CH ₄ 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. <i>AIChE Journal</i> , 2010, 56, 1469-1480.	1.8	22
26	Mathematical modeling of CO ₂ absorption with ionic liquids in a membrane contactor, study of absorption kinetics and influence of temperature. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1844-1857.	1.6	21
27	Juglone extraction from walnut (<i>Juglans regia</i> L.) green husk by supercritical CO ₂ : Process optimization using Taguchi method. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103776.	3.3	21
28	Biodiesel Production through Heterogeneous Catalysis Using a Novel Poly(phenylene sulfide) Catalytic Membrane. <i>Energy & Fuels</i> , 2020, 34, 7422-7429.	2.5	20
29	A review on hollow fiber membrane module towards high separation efficiency: Process modeling in fouling perspective. <i>Chinese Chemical Letters</i> , 2022, 33, 3594-3602.	4.8	20
30	Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104475.	3.3	18
31	Enhanced removal of cadmium from water using bio-sorbents synthesized from branches and leaves of <i>Capparis decidua</i> and <i>Ziziphus mauritiana</i> . <i>Environmental Technology and Innovation</i> , 2021, 24, 101922.	3.0	17
32	Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review. <i>Environmental Research</i> , 2022, 205, 112402.	3.7	17
33	Preparation of Small-Pore Ultrafiltration Membranes with High Surface Porosity by In Situ CO ₂ Nanobubble-Assisted NIPS. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8633-8643.	4.0	17
34	Chelated Nitrogen-Sulphur-Codoped TiO ₂ : Synthesis, Characterization, Mechanistic, and UV/Visible Photocatalytic Studies. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-17.	1.4	13
35	Mixed Matrix Membranes for Sustainable Electrical Energy-Saving Applications. <i>ChemBioEng Reviews</i> , 2021, 8, 27-43.	2.6	12
36	Plasticization- and aging-resistant membranes with venation-like architecture for efficient carbon capture. <i>Journal of Membrane Science</i> , 2020, 609, 118215.	4.1	12

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37	Non-dispersive solvent absorption of post-combustion CO ₂ in membrane contactors using ionic liquids. <i>Journal of Molecular Liquids</i> , 2022, 351, 118566.	2.3	12
38	Experimental and Theoretical Investigation of Distribution Equilibria and Kinetics of Copper(II) Extraction with LIX 84 I and TFA. <i>Separation Science and Technology</i> , 2015, 50, 1523-1531.	1.3	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 ₂ /N ₂) separation. <i>Polymers and Polymer Composites</i> , 2021, 29, S1630-S1640.	1.0	11
41	Experimental investigation of polysulfone modified cellulose acetate membrane for CO ₂ /H ₂ gas separation. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 189-197.	1.2	11
42	Hydrogen separation from synthesis gas using silica membrane: CFD simulation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19381-19390.	3.8	10
43	Osmotic distillation and quality evaluation of sucrose, apple and orange juices in hollow fiber membrane contactor. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2017, 23, 217-227.	0.4	10
44	Efficiently rejecting and concentrating Li ⁺ by nanofiltration membrane under a reversed electric field. <i>Desalination</i> , 2022, 535, 115825.	4.0	10
45	Multi-ionic electrolytes and E.coli removal from wastewater using chitosan-based in-situ mediated thin film composite nanofiltration membrane. <i>Journal of Environmental Management</i> , 2021, 294, 112996.	3.8	9
46	Prediction bubble point pressure for CO ₂ /CH ₄ gas mixtures in ionic liquids using intelligent approaches. <i>Emergent Materials</i> , 2021, 4, 565-578.	3.2	8
47	Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	7
48	Effects of Coagulation Residence Time on the Morphology and Properties of Poly (vinyl) Alcohol (PVA) Asymmetric Membrane via NIPS Method for O ₂ /N ₂ Separation. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2810-2822.	2.4	6
49	Synthesis and characterization of inorganic microfiltration membrane through geopolymerization. , 0, 66, 203-209.		6
50	Theoretical analysis and simulation of five-zone simulating moving bed for ternary mixture separation. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 1480-1491.	0.9	5
51	Reverse osmosis as one-step wastewater treatment: a case study on groundwater pollution. <i>Polish Journal of Chemical Technology</i> , 2015, 17, 42-48.	0.3	5
52	Fabrication and characterization of functionalized nano-silica based transparent superhydrophobic surface. <i>Materials Chemistry and Physics</i> , 2021, 267, 124694.	2.0	4
53	Geopolymerization: a promising technique for membrane synthesis. <i>Materials Research Express</i> , 2021, 8, 112002.	0.8	4
54	Electrocatalytic CO ₂ fixation by regenerating reduced cofactor NADH during Calvin Cycle using glassy carbon electrode. <i>PLoS ONE</i> , 2020, 15, e0239340.	1.1	3

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55	Metal-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, .	0.6	2
57	Hydrogen Fuel Cells and Nanotechnology. Green Energy and Technology, 2021, , 95-103.	0.4	2
58	Performance Evaluation of Hollow Fiber Membrane Contactors for Dispersion-Free Extraction of Cu ²⁺ through Modelling and Simulation. Periodica Polytechnica: Chemical Engineering, 2016, , .	0.5	1
59	Nanotechnology and the Generation of Sustainable Hydrogen. Green Energy and Technology, 2021, , .	0.4	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.	0.4	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, , .	0.3	0
64	Hydrogen Future: Toward Industrial Applications. Green Energy and Technology, 2021, , 105-109.	0.4	0
65	Chemisorption. Green Energy and Technology, 2021, , 83-93.	0.4	0
66	Double Polyamide Layers with CaCO ₃ Nanoparticles as Scaffolds for High Performance Nanofiltration Membranes. ACS Applied Nano Materials, 2022, 5, 8279-8287.	2.4	0