Mohamed H Al-Marzouqi

List of Publications by Year
in descending order

55 papers	1,727 citations	236833 25 h-index	289141 40 g-index
57 all docs	57 docs citations	57 times ranked	1282 citing authors

#	Article	IF	Citations
1	Current and future trends in polymer membrane-based gas separation technology: A comprehensive review. Journal of Industrial and Engineering Chemistry, 2021, 98, 103-129.	2.9	154
2	Mathematical modeling for the simultaneous absorption of CO2 and H2S using MEA in hollow fiber membrane contactors. Journal of Membrane Science, 2009, 342, 269-278.	4.1	147
3	Modeling of CO2 absorption in membrane contactors. Separation and Purification Technology, 2008, 59, 286-293.	3.9	144
4	Removal of carbon dioxide from pressurized CO2â€“CH4 gas mixture using hollow fiber membrane contactors. Journal of Membrane Science, 2010, 351, 21-27.	4.1	80
5	Effect of PVDF concentration on the morphology and performance of hollow fiber membrane employed as gasâ€“liquid membrane contactor for CO2 absorption. Separation and Purification Technology, 2012, 98, 174-185.	3.9	78
6	Simultaneous removal of CO2 and H2S from pressurized CO2â€“H2Sâ€“CH4 gas mixture using hollow fiber membrane contactors. Separation and Purification Technology, 2012, 86, 88-97.	3.9	68
7	Evaluation of the removal of CO2 using membrane contactors: Membrane wettability. Journal of Membrane Science, 2010, 350, 410-416.	4.1	60
8	Effect of quenching temperature on the performance of poly(vinylidene fluoride) microporous hollow fiber membranes fabricated via thermally induced phase separation technique on the removal of CO2 from CO2-gas mixture. International Journal of Greenhouse Gas Control, 2011, 5, 1550-1558.	2.3	59
9	Absorption of CO 2 from natural gas using different amino acid salt solutions and regeneration using hollow fiber membrane contactors. Journal of Natural Gas Science and Engineering, 2015, 26, 108-117.	2.1	58
10	Effect of polymer extrusion temperature on poly(vinylidene fluoride) hollow fiber membranes: Properties and performance used as gasâ€“liquid membrane contactor for CO2 absorption. Separation and Purification Technology, 2012, 99, 91-103.	3.9	53
11	Effect of competitive interference on the biosorption of lead(II) by Chlorella vulgaris. Chemical Engineering and Processing: Process Intensification, 2007, 46, 1391-1399.	1.8	51
12	CO2 removal from natural gas at high pressure using membrane contactors: Model validation and membrane parametric studies. Journal of Membrane Science, 2010, 365, 232-241.	4.1	51
13	Electrospun Lignin-Derived Carbon Micro- and Nanofibers: A Review on Precursors, Properties, and Applications. ACS Sustainable Chemistry and Engineering, 2020, 8, 13868-13893.	3.2	48
14	CO₂ Removal from CO₂â^'CH₄ Gas Mixture Using Different Solvents and Hollow Fiber Membranes. Industrial & Engineering Chemistry Research, 2009, 48, 3600-3605.	1.8	39
15	Experimental and theoretical study on propylene absorption by using PVDF hollow fiber membrane contactors with various membrane structures. Journal of Membrane Science, 2010, 346, 86-97.	4.1	38
16	Preparation and properties of polyethersulfone hollow fiber membranes with o-xylene as an additive used in membrane contactors for CO2 absorption. Separation and Purification Technology, 2012, 92, 1-10.	3.9	36
17	Modeling of CO2 absorption in a membrane contactor considering solvent evaporation. Separation and Purification Technology, 2013, 110, 1-10.	3.9	35
18	Removal of percentile level of H2S from pressurized H2Sâ€“CH4 gas mixture using hollow fiber membrane contactors and absorption solvents. Journal of Membrane Science, 2010, 360, 436-441.	4.1	34

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19	Stripping of CO2 from different aqueous solvents using PVDF hollow fiber membrane contacting process. Journal of Natural Gas Science and Engineering, 2014, 21, 886-893.	2.1	33
20	Facilitated Transport of CO2through Immobilized Liquid Membrane. Industrial & Engineering Chemistry Research, 2005, 44, 9273-9278.	1.8	31
21	Removal of Bromine from the non-metallic fraction in printed circuit board via its Co-pyrolysis with alumina. Waste Management, 2022, 137, 283-293.	3.7	31
22	Effects of a Rapid Peer-Based HIV/AIDS Educational Intervention on Knowledge and Attitudes of High School Students in a High-Income Arab Country. Journal of Acquired Immune Deficiency Syndromes (1999), 2009, 52, 86-98.	0.9	30
23	Carbon Nanomaterials for the Adsorptive Desulfurization of Fuels. Journal of Nanotechnology, 2019, 2019, 1-13.	1.5	30
24	H2S absorption at high pressure using hollow fibre membrane contactors. Chemical Engineering and Processing: Process Intensification, 2014, 83, 33-42.	1.8	27
25	High pressure removal of acid gases using hollow fiber membrane contactors: Further characterization and long-term operational stability. Journal of Natural Gas Science and Engineering, 2017, 37, 192-198.	2.1	26
26	Effects of potassium hydroxide and aluminum oxide on the performance of a modified solvay process for <scp> CO ₂ </scp> capture: A comparative study. International Journal of Energy Research, 2021, 45, 13952-13964.	2.2	22
27	Gasâ€“liquid membrane contactor for ethylene/ethane separation by aqueous silver nitrate solution. Separation and Purification Technology, 2014, 127, 140-148.	3.9	21
28	H2S absorption via carbonate solution in membrane contactors: Effect of species concentrations. Journal of Membrane Science, 2010, 350, 200-210.	4.1	18
29	Effective and sustainable adsorbent materials for oil spill cleanup based on a multistage desalination process. Journal of Environmental Management, 2021, 299, 113652.	3.8	18
30	Intensification of CO2 absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. Scientific Reports, 2021, 11, 2649.	1.6	17
31	Analytical solution for facilitated transport across a membrane. Chemical Engineering Science, 2002, 57, 4817-4829.	1.9	15
32	The nanoscale dimension determines the carbonization outcome of electrospun lignin/recycled-PET fibers. Chemical Engineering Science, 2019, 202, 26-35.	1.9	15
33	KOH-Based Modified Solvay Process for Removing Na Ions from High Salinity Reject Brine at High Temperatures. Sustainability, 2021, 13, 10200.	1.6	15
34	CO2 capture and ions removal through reaction with potassium hydroxide in desalination reject brine: Statistical optimization. Chemical Engineering and Processing: Process Intensification, 2022, 170, 108722.	1.8	13
35	Simple analyzer for continuous monitoring of sulfur dioxide in gas streams. Microchemical Journal, 2010, 95, 207-212.	2.3	11
36	Gas analyzer for continuous monitoring of carbon dioxide in gas streams. Sensors and Actuators B: Chemical, 2010, 145, 398-404.	4.0	11

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37	Experimental and modeling of CO2 removal from gas mixtures using membrane contactors packed with glass beads. Separation and Purification Technology, 2019, 217, 240-246.	3.9	10
38	Effect of Temperature, Composition, and Shear Rate on Polyvinylidene Fluoride/Dimethylacetamide Solution Viscosity. Journal of Chemical & Engineering Data, 2009, 54, 3276-3280.	1.0	9
39	Analyzer for continuous monitoring of H2S in gas streams based on a novel thermometric detection. Sensors and Actuators B: Chemical, 2012, 162, 377-383.	4.0	9
40	Regenerating Diethanolamine Aqueous Solution for CO₂ Absorption Using Microalgae. Industrial Biotechnology, 2016, 12, 105-108.	0.5	9
41	A New Process for the Recovery of Ammonia from Ammoniated High-Salinity Brine. Sustainability, 2021, 13, 10014.	1.6	9
42	Portable analyzer for continuous monitoring of sulfur dioxide in gas stream based on amperometric detection and stabilized gravity-driven flow. Sensors and Actuators B: Chemical, 2016, 225, 24-33.	4.0	8
43	Computational fluid dynamics simulation of an Inert Particles Spouted Bed Reactor (IPSBR) system. International Journal of Chemical Reactor Engineering, 2020, .	0.6	8
44	Determining Pore Size Distribution of Gas Separation Membranes from Adsorption Isotherm Data. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1999, 21, 31-38.	0.5	7
45	Effects of Shear Rate, Temperature, and Polymer Composition on the Shear Stress of Polyethersulfone/1-Methyl-2-pyrrolidone Cast Solutions. Journal of Chemical & Engineering Data, 2011, 56, 4444-4448.	1.0	7
46	Absorption of CO2 Form Natural Gas via Gas-liquid PVDF Hollow Fiber Membrane Contactor and Potassium Glycinate as Solvent. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	6
47	Fabricating carbon nanofibers from a lignin/r-PET blend: the synergy of mass ratio with the average fiber diameter. Applied Nanoscience (Switzerland), 2020, 10, 1331-1343.	1.6	6
48	Comprehensive Optimization of the Dispersion of Mixing Particles in an Inert-Particle Spouted-Bed Reactor (IPSBR) System. Processes, 2021, 9, 1921.	1.3	6
49	Correlating the physical solubility of CO2 in several amines to the concentrations of amine groups. Journal of Natural Gas Science and Engineering, 2016, 34, 841-848.	2.1	4
50	Portable dual-channel gas analyzer for continuous monitoring of carbon dioxide in gas streams. Microchemical Journal, 2013, 110, 185-191.	2.3	3
51	A CFD Investigation on the Effect of IPSBR Operational Conditions on Liquid Phase Hydrodynamics. , 2021, , .		3
52	Modeling and Experimental Study of Gas-Liquid Membrane Contactor. , 2015, , 5442-5453.		0
53	Thermal Conductivity of Aqueous Solvents Used in CO2 Capture. Journal of Chemical Engineering Research Updates, 2016, 3, 25-30.	0.1	0
54	Carbon Capture From Natural Gas via Polymeric Membranes. , 2018, , 3043-3055.		0

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55	Carbon Capture From Natural Gas via Polymeric Membranes. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 117-131.	0.3	0