Faizan Ahmad

List of Publications by Year
in descending order

22 papers	520 citations	759233 12 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	609 citing authors

#	Article	IF	Citations
1	Process simulation and optimal design of membrane separation system for CO2 capture from natural gas. Computers and Chemical Engineering, 2012, 36, 119-128.	3.8	111
2	Temperature and pressure dependence of membrane permeance and its effect on process economics of hollow fiber gas separation system. Journal of Membrane Science, 2013, 430, 44-55.	8.2	55
3	Hollow fiber membrane model for gas separation: Process simulation, experimental validation and module characteristics study. Journal of Industrial and Engineering Chemistry, 2015, 21, 1246-1257.	5.8	50
4	Modeling, simulation and economic analysis of CO2 capture from natural gas using cocurrent, countercurrent and radial crossflow hollow fiber membrane. International Journal of Greenhouse Gas Control, 2015, 36, 114-134.	4.6	44
5	A thermally coupled reactive distillation and pervaporation hybrid process for n -butyl acetate production with enhanced energy efficiency. Chemical Engineering Research and Design, 2017, 124, 98-113.	5.6	33
6	Vapor permeationâ€“distillation hybrid processes for cost-effective isopropanol dehydration: modeling, simulation and optimization. Journal of Membrane Science, 2016, 497, 108-119.	8.2	30
7	A hybrid reactive distillation process with high selectivity pervaporation for butyl acetate production via transesterification. Journal of Membrane Science, 2017, 543, 49-57.	8.2	30
8	Physical Properties of Piperazine (PZ) Activated Aqueous Solutions of 2-Amino-2-hydroxymethyl-1,3-propanediol (AHPD + PZ). Journal of Chemical & Engineering Data, 2012, 57, 133-136.	1.9	22
9	Modelling in mixed matrix membranes for gas separation. Canadian Journal of Chemical Engineering, 2015, 93, 88-95.	1.7	22
10	Intensified Distillationâ€Based Separation Processes: Recent Developments and Perspectives. Chemical Engineering and Technology, 2016, 39, 2183-2195.	1.5	20
11	Study on CO₂ Hydrate Formation Kinetics in Saline Water in the Presence of Low Concentrations of CH₄. ACS Omega, 2019, 4, 18210-18218.	3.5	20
12	Comparative Analysis of Hydrate Nucleation for Methane and Carbon Dioxide. Molecules, 2019, 24, 1055.	3.8	13
13	An atomistic simulation towards elucidation of operating temperature effect in CO2 swelling of polysulfone polymeric membranes. Journal of Natural Gas Science and Engineering, 2018, 57, 135-154.	4.4	12
14	Theoretical and experimental investigation of CO2 capture through choline chloride based supported deep eutectic liquid membranes. Journal of Molecular Liquids, 2021, 335, 116234.	4.9	12
15	Innovative method to prepare a stable emulsion liquid membrane for high CO 2 absorption and its performance evaluation for a natural gas feed in a rotating disk contactor. Journal of Natural Gas Science and Engineering, 2016, 34, 716-732.	4.4	10
16	Holistic review on the recent development in mathematical modelling and process simulation of hollow fiber membrane contactor for gas separation process. Journal of Industrial and Engineering Chemistry, 2021, 104, 231-257.	5.8	10
17	Physical Properties and Thermal Decomposition of Aqueous Solutions of 2-Amino-2-hydroxymethyl-1, 3-propanediol (AHPD). International Journal of Thermophysics, 2011, 32, 2040-2049.	2.1	9
18	Removal of CO2 from Natural Gas Using Membrane Separation System: Modeling and Process Design. Journal of Applied Sciences, 2010, 10, 1134-1139.	0.3	7

#	Article	IF	Citations
19	Mathematical modelling of thickness and temperature dependent physical aging to O₂/N₂ gas separation in polymeric membranes. RSC Advances, 2018, 8, 30265-30279.	3.6	6
20	Hydrodynamics study of the modified rotating disc contactor for CO2 absorption from natural gas using emulsion liquid membrane. Chemical Engineering Research and Design, 2016, 111, 465-478.	5.6	3
21	Elucidation on the Effect of Operating Temperature to the Transport Properties of Polymeric Membrane Using Molecular Simulation Tool. Communications in Computer and Information Science, 2017, , 456-471.	0.5	1
22	Empirical Model of Operating Temperature and Pressure Effect towards Pure and Binary O₂/ N₂ Gas Permeability in Polysulfone Membrane. Key Engineering Materials, 2018, 777, 238-244.	0.4	0