

Faizan Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

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	Holistic review on the recent development in mathematical modelling and process simulation of hollow fiber membrane contactor for gas separation process. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 231-257.	5.8	10
2	Theoretical and experimental investigation of CO ₂ capture through choline chloride based supported deep eutectic liquid membranes. <i>Journal of Molecular Liquids</i> , 2021, 335, 116234.	4.9	12
3	Study on CO ₂ Hydrate Formation Kinetics in Saline Water in the Presence of Low Concentrations of CH ₄ . <i>ACS Omega</i> , 2019, 4, 18210-18218.	3.5	20
4	Comparative Analysis of Hydrate Nucleation for Methane and Carbon Dioxide. <i>Molecules</i> , 2019, 24, 1055.	3.8	13
5	Empirical Model of Operating Temperature and Pressure Effect towards Pure and Binary O ₂ /N ₂ Gas Permeability in Polysulfone Membrane. <i>Key Engineering Materials</i> , 2018, 777, 238-244.	0.4	0
6	Mathematical modelling of thickness and temperature dependent physical aging to O ₂ /N ₂ gas separation in polymeric membranes. <i>RSC Advances</i> , 2018, 8, 30265-30279.	3.6	6
7	An atomistic simulation towards elucidation of operating temperature effect in CO ₂ swelling of polysulfone polymeric membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 57, 135-154.	4.4	12
8	A thermally coupled reactive distillation and pervaporation hybrid process for n-butyl acetate production with enhanced energy efficiency. <i>Chemical Engineering Research and Design</i> , 2017, 124, 98-113.	5.6	33
9	A hybrid reactive distillation process with high selectivity pervaporation for butyl acetate production via transesterification. <i>Journal of Membrane Science</i> , 2017, 543, 49-57.	8.2	30
10	Elucidation on the Effect of Operating Temperature to the Transport Properties of Polymeric Membrane Using Molecular Simulation Tool. <i>Communications in Computer and Information Science</i> , 2017, , 456-471.	0.5	1
11	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. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 716-732.	4.4	10
12	Intensified Distillation-Based Separation Processes: Recent Developments and Perspectives. <i>Chemical Engineering and Technology</i> , 2016, 39, 2183-2195.	1.5	20
13	Hydrodynamics study of the modified rotating disc contactor for CO ₂ absorption from natural gas using emulsion liquid membrane. <i>Chemical Engineering Research and Design</i> , 2016, 111, 465-478.	5.6	3
14	Vapor permeation-distillation hybrid processes for cost-effective isopropanol dehydration: modeling, simulation and optimization. <i>Journal of Membrane Science</i> , 2016, 497, 108-119.	8.2	30
15	Modeling, simulation and economic analysis of CO ₂ capture from natural gas using cocurrent, countercurrent and radial crossflow hollow fiber membrane. <i>International Journal of Greenhouse Gas Control</i> , 2015, 36, 114-134.	4.6	44
16	Hollow fiber membrane model for gas separation: Process simulation, experimental validation and module characteristics study. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1246-1257.	5.8	50
17	Modelling in mixed matrix membranes for gas separation. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 88-95.	1.7	22
18	Temperature and pressure dependence of membrane permeance and its effect on process economics of hollow fiber gas separation system. <i>Journal of Membrane Science</i> , 2013, 430, 44-55.	8.2	55

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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