

Tohid NBorhani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

953
citations

17
h-index

30
g-index

41
ext. papers

1,243
ext. citations

7.2
avg, IF

4.92
L-index

#	Paper	IF	Citations
39	Mixture of piperazine and potassium carbonate to absorb CO ₂ in the packed column: Modelling study. <i>Fuel</i> , 2022 , 308, 122033	7.1	1
38	Modeling of carbon dioxide absorption by solution of piperazine and methyldiethanolamine in a rotating packed bed. <i>Chemical Engineering Science</i> , 2022 , 248, 117118	4.4	0
37	Environmental Aspects of the Combined Cooling, Heating, and Power (CCHP) Systems: A Review. <i>Processes</i> , 2022 , 10, 711	2.9	
36	Computer-Aided Molecular Design 2022 , 297-311		
35	Life cycle assessment of combustion-based electricity generation technologies integrated with carbon capture and storage: A review. <i>Environmental Research</i> , 2021 , 207, 112219	7.9	7
34	Mass transfer coefficients of carbon dioxide in aqueous blends of monoethanolamine and glycerol using wetted-wall column. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106618	6.8	1
33	Experimental and Artificial Intelligence Modelling Study of Oil Palm Trunk Sap Fermentation. <i>Energies</i> , 2021 , 14, 2137	3.1	2
32	Techno-economic and environmental assessment of staged oxy-co-firing of biomass-derived syngas and natural gas. <i>Energy Conversion and Management</i> , 2021 , 243, 114410	10.6	4
31	Status and perspective of CO ₂ absorption process. <i>Energy</i> , 2020 , 205, 118057	7.9	20
30	Integration of solid-oxide fuel cells and absorption refrigeration for efficient combined cooling, heat and power production. <i>Clean Energy</i> , 2020 , 4, 328-348	4.7	3
29	Energy storage 2020 , 311-332		
28	Hybrid QSPR models for the prediction of the free energy of solvation of organic solute/solvent pairs. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13706-13720	3.6	19
27	Process modelling, validation and analysis of rotating packed bed stripper in the context of intensified CO ₂ capture with MEA. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 285-295	6.3	16
26	Role of solvents in CO ₂ capture processes: The review of selection and design methods. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109299	16.2	97
25	Thermodynamic models applied to CO ₂ absorption modelling. <i>Reviews in Chemical Engineering</i> , 2019 ,	5	4
24	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. <i>Progress in Energy and Combustion Science</i> , 2019 , 71, 1-80	33.6	184
23	Prediction of heat capacity of amine solutions using artificial neural network and thermodynamic models for CO ₂ capture processes. <i>Heat and Mass Transfer</i> , 2018 , 54, 855-866	2.2	4

22	Carbon Capture 2018 , 997-1016		13
21	Solubility of CO ₂ in aqueous solutions of glycerol and monoethanolamine. <i>Journal of Molecular Liquids</i> , 2018 , 249, 40-52	6	25
20	Process modelling and analysis of intensified CO ₂ capture using monoethanolamine (MEA) in rotating packed bed absorber. <i>Journal of Cleaner Production</i> , 2018 , 204, 1124-1142	10.3	22
19	A generic hybrid model development for process analysis of industrial fixed-bed catalytic reactors. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 149-167	5.5	22
18	Activity Coefficient Modelling of Aqueous Solutions of Alkyl Ammonium Salts using the Extended UNIQUAC Model. <i>Journal of Solution Chemistry</i> , 2016 , 45, 1434-1452	1.8	3
17	QSPR estimation of the auto-ignition temperature for pure hydrocarbons. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 115-125	5.5	25
16	Modeling study on CO ₂ and H ₂ S simultaneous removal using MDEA solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 34, 344-355	6.3	49
15	QSPR prediction of the hydroxyl radical rate constant of water contaminants. <i>Water Research</i> , 2016 , 98, 344-53	12.5	65
14	A CFD-PBM coupled model of hydrodynamics and mixing/segregation in an industrial gas-phase polymerization reactor. <i>Chemical Engineering Research and Design</i> , 2015 , 96, 103-120	5.5	19
13	CO ₂ capture with potassium carbonate solutions: A state-of-the-art review. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 41, 142-162	4.2	121
12	2D CFD-PBM simulation of hydrodynamic and particle growth in an industrial gas phase fluidized bed polymerization reactor. <i>Chemical Engineering Research and Design</i> , 2015 , 104, 53-67	5.5	21
11	Prediction of Pd/C Catalyst Deactivation Rate and Assessment of Optimal Operating Conditions of Industrial Hydropurification Process. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7067-7082	3.9	11
10	Evaluation of hydrodynamic behavior of the perforated gas distributor of industrial gas phase polymerization reactor using CFD-PBM coupled model. <i>Computers and Chemical Engineering</i> , 2015 , 82, 344-361	4	14
9	Rate-based simulation and comparison of various promoters for CO ₂ capture in industrial DEA-promoted potassium carbonate absorption unit. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 22, 306-316	6.3	38
8	Comparison of equilibrium and non-equilibrium models of a tray column for post-combustion CO ₂ capture using DEA-promoted potassium carbonate solution. <i>Chemical Engineering Science</i> , 2015 , 122, 291-298	4.4	29
7	Model-based analysis of the impact of the distributor on the hydrodynamic performance of industrial polydisperse gas phase fluidized bed polymerization reactors. <i>Powder Technology</i> , 2014 , 267, 398-411	5.2	17
6	A simple modelling approach for prediction of standard state real gas entropy of pure materials. <i>SAR and QSAR in Environmental Research</i> , 2014 , 25, 695-710	3.5	10
5	Molecular modeling of the ideal gas enthalpy of formation of hydrocarbons. <i>Fluid Phase Equilibria</i> , 2013 , 360, 423-434	2.5	14

4	Simple yet accurate prediction of liquid molar volume via their molecular structure. <i>Fluid Phase Equilibria</i> , 2013 , 337, 183-190	2.5	9
3	Estimation of flash point and autoignition temperature of organic sulfur chemicals. <i>Energy Conversion and Management</i> , 2012 , 58, 185-196	10.6	46
2	Enhancement of organic solar cell efficiency by altering the zinc oxide photoanode nanostructure morphology. <i>Journal of Nanostructure in Chemistry</i> , 1	7.6	2
1	Harnessing the power of machine learning for carbon capture, utilisation, and storage (CCUS) – state-of-the-art review. <i>Energy and Environmental Science</i> ,	35.4	10