

Shahrokh Shahhosseini

List of Publications by Year in descending order

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74
papers

1,919
citations

201674

27
h-index

302126

39
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74
all docs

74
docs citations

74
times ranked

1480
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Investigation of a MILD Combustion Burner: Analysis of Mixing Field, Chemical Kinetics and Turbulence-Chemistry Interaction. <i>Flow, Turbulence and Combustion</i> , 2012, 88, 597-623.	2.6	107
2	CFD modeling of hydrodynamic and heat transfer in fluidized bed reactors. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 357-368.	5.6	104
3	High CO ₂ Adsorption on Amine-Functionalized Improved Mesoporous Silica Nanotube as an Eco-Friendly Nanocomposite. <i>Energy & Fuels</i> , 2019, 33, 5384-5397.	5.1	80
4	Evaluation of ANN modeling for prediction of crude oil fouling behavior. <i>Applied Thermal Engineering</i> , 2008, 28, 668-674.	6.0	57
5	Direct numerical simulation of water droplet coalescence in the oil. <i>International Journal of Heat and Fluid Flow</i> , 2012, 36, 58-71.	2.4	54
6	Optimization of CO ₂ Capture Process from Simulated Flue Gas by Dry Regenerable Alkali Metal Carbonate Based Adsorbent Using Response Surface Methodology. <i>Energy & Fuels</i> , 2017, 31, 5286-5296.	5.1	52
7	Simulation and optimisation of PHB production in fed-batch culture of <i>Ralstonia eutropha</i> . <i>Process Biochemistry</i> , 2004, 39, 963-969.	3.7	50
8	Optimal design of drainage channel geometry parameters in vane demister liquid-gas separators. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1212-1222.	5.6	46
9	Optimization of ultrasound-assisted oxidative desulfurization of high sulfur kerosene using response surface methodology (RSM). <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2677-2689.	4.1	46
10	CFD analysis of hydrodynamic, heat transfer and reaction of three phase riser reactor. <i>Chemical Engineering Research and Design</i> , 2011, 89, 978-989.	5.6	45
11	Chemical absorption of CO ₂ into an aqueous piperazine (PZ) solution: development and validation of a rigorous dynamic rate-based model. <i>RSC Advances</i> , 2016, 6, 40017-40032.	3.6	43
12	CFD modeling of fouling in crude oil pre-heaters. <i>Energy Conversion and Management</i> , 2012, 64, 344-350.	9.2	40
13	Modeling of CO ₂ loading in aqueous solutions of piperazine: Application of an enhanced artificial neural network algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 18-25.	4.4	39
14	CFD study of the flow pattern in an ultrasonic horn reactor: Introducing a realistic vibrating boundary condition. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 359-374.	8.2	39
15	Waste fish oil (WFO) esterification catalyzed by sulfonated activated carbon under ultrasound irradiation. <i>Applied Thermal Engineering</i> , 2016, 94, 141-150.	6.0	38
16	Experimental investigation of dispersed phase holdup and flooding characteristics in a multistage column extractor. <i>Chemical Engineering Research and Design</i> , 2016, 105, 177-187.	5.6	37
17	Nonequilibrium dynamic modeling of carbon dioxide absorption by partially carbonated ammonia solutions. <i>Chemical Engineering Journal</i> , 2009, 149, 110-117.	12.7	36
18	Design and simulation of ethane recovery process in an extractive dividing wall column. <i>Journal of Cleaner Production</i> , 2014, 72, 222-229.	9.3	34

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19	Continuous-flow ultrasound assisted oxidative desulfurization (UAOD) process: An efficient diesel treatment by injection of the aqueous phase. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 611-622.	8.2	34
20	Electrocoalescence of binary water droplets falling in oil: Experimental study. <i>Chemical Engineering Research and Design</i> , 2014, 92, 2694-2704.	5.6	33
21	A methodology for modeling batch reactors using generalized dynamic neural networks. <i>Chemical Engineering Journal</i> , 2010, 159, 195-202.	12.7	32
22	Experimental and modeling of CO ₂ capture by dry sodium hydroxide carbonation. <i>Chemical Engineering Research and Design</i> , 2012, 90, 2041-2050.	5.6	32
23	Dynamic crude oil fouling prediction in industrial preheaters using optimized ANN based moving window technique. <i>Chemical Engineering Research and Design</i> , 2012, 90, 938-949.	5.6	32
24	CO ₂ chemical absorption into aqueous solutions of piperazine: modeling of kinetics and mass transfer rate. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1059-1067.	4.4	31
25	Rapid oxidation of dibenzothiophene in model fuel under ultrasound irradiation. <i>Monatshefte für Chemie</i> , 2017, 148, 387-396.	1.8	31
26	Characterization of Ag(I), Co(II) and Cu(II) removal process from aqueous solutions using dolomite powder. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 172-180.	2.7	29
27	Effect of operating pressure on the performance of ultrasound-assisted oxidative desulfurization (UAOD) using a horn type sonicator: Experimental investigation and CFD simulation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 132, 75-88.	3.6	29
28	Computational and experimental investigation of CO ₂ capture in gas-liquid solid bubbling fluidized bed. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 421-430.	5.3	28
29	CFD simulation of hydrodynamics and heat transfer in gas phase ethylene polymerization reactors. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 437-442.	5.6	27
30	Holdup, characteristic velocity and slip velocity between two phases in a multi-impeller column for high/medium/low interfacial tension systems. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 100, 65-78.	3.6	26
31	Hydrodynamic and mass transfer investigation of oxidative desulfurization of a model fuel using an ultrasound horn reactor. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 77-87.	8.2	25
32	Numerical Study of the Collision and Coalescence of Water Droplets in an Electric Field. <i>Chemical Engineering and Technology</i> , 2014, 37, 27-35.	1.5	24
33	Unified new correlation for prediction of dispersed phase holdup in agitated extraction columns. <i>Separation and Purification Technology</i> , 2016, 158, 275-285.	7.9	24
34	Neuro-based formulation to predict fouling threshold in crude preheaters. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 525-531.	5.6	23
35	A novel multi-probe continuous flow ultrasound assisted oxidative desulfurization reactor; experimental investigation and simulation. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 264-273.	8.2	23
36	Optimization of a continuous ultrasound assisted oxidative desulfurization (UAOD) process of diesel using response surface methodology (RSM) considering operating cost. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1384-1396.	3.5	23

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37	Mass transfer performance in an Oldshue&Rushton column extractor. Chemical Engineering Research and Design, 2015, 100, 104-112.	5.6	22
38	Regeneration of different extractive solvents for the oxidative desulfurization process: An experimental investigation. Chemical Engineering Research and Design, 2020, 139, 191-200.	5.6	22
39	Numerical prediction of the electrical waveform effect on electrocoalescence kinetic. Chemical Engineering Research and Design, 2013, 91, 904-918.	5.6	21
40	Optimization of CO ₂ Capture from Simulated Flue Gas Using K ₂ CO ₃ /Al ₂ O ₃ in a Micro Fluidized Bed Reactor. Energy & Fuels, 2018, 32, 7978-7990.	5.1	21
41	Removal of carbonate and oxalate pollutants in the Bayer process using thermal and chemical techniques. Hydrometallurgy, 2015, 154, 137-148.	4.3	20
42	Using maximum entropy approach for prediction of drop size distribution in a pilot plant multi-impeller extraction contactor. RSC Advances, 2015, 5, 95967-95980.	3.6	20
43	The effect of particle properties on the heat transfer characteristics of a liquid&solid fluidized bed heat exchanger. International Journal of Thermal Sciences, 2016, 102, 111-121.	4.9	20
44	Experimental investigation of CO ₂ capture using sodium hydroxide particles in a fluidized bed. Korean Journal of Chemical Engineering, 2016, 33, 1278-1285.	2.7	20
45	Optimization of oxidative polymerization-desulfurization of a model fuel using polyoxometalate: Effect of ultrasound irradiation. Journal of Industrial and Engineering Chemistry, 2019, 80, 576-589.	5.8	20
46	Investigation of the ultrasound assisted CO ₂ absorption using different absorbents. Chemical Engineering Research and Design, 2021, 149, 277-288.	5.6	20
47	Experimental mass transfer coefficients in a pilot plant multistage column extractor. Chinese Journal of Chemical Engineering, 2016, 24, 989-999.	3.5	18
48	A new empirical model for estimation of crude oil/brine interfacial tension using genetic programming approach. Journal of Petroleum Science and Engineering, 2019, 173, 187-196.	4.2	18
49	Modeling gas oil spray coalescence and vaporization in gas solid riser reactor. International Communications in Heat and Mass Transfer, 2010, 37, 935-943.	5.6	16
50	Effects of Restitution and Specularity Coefficients on Solid&Liquid Fluidized Bed&Hydrodynamics. Chemical Engineering and Technology, 2015, 38, 1827-1836.	1.5	15
51	Simulation of CO ₂ capture using sodium hydroxide solid sorbent in a fluidized bed reactor by a multi-layer perceptron neural network. Journal of Natural Gas Science and Engineering, 2016, 31, 305-312.	4.4	15
52	Optimization of Extractive Desulfurization of Diesel Oil in a Continuous Oldshue&Rushton Column Pilot Plant. Energy & Fuels, 2020, 34, 1041-1052.	5.1	15
53	Simulation study of droplet vaporization effects on gas&solid fluidized bed. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 419-427.	5.3	14
54	KINETICS AND ABSORPTION RATE OF CO ₂ INTO PARTIALLY CARBONATED AMMONIA SOLUTIONS. Chemical Engineering Communications, 2011, 198, 1169-1181.	2.6	14

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55	CFD based evaluation of polymer particles heat transfer coefficient in gas phase polymerization reactors. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 1375-1379.	5.6	13
56	A study on the effects of textural properties of γ -Al ₂ O ₃ support on CO ₂ capture capacity of Na ₂ CO ₃ . <i>Chemical Engineering Research and Design</i> , 2020, 138, 176-185.	5.6	12
57	Some notes on process intensification of amine based gas sweetening process for better temperature distribution in contactor to reduce the amount of amine as a result of corrosion and foaming. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 41, 169-177.	3.3	11
58	NONEQUILIBRIUM MODELING OF REACTIVE ABSORPTION PROCESSES. <i>Chemical Engineering Communications</i> , 2009, 196, 1076-1089.	2.6	10
59	Dynamic heat and mass transfer modeling and control in carbon dioxide reactive absorption process. <i>Heat and Mass Transfer</i> , 2015, 51, 1131-1140.	2.1	10
60	Eco-Friendly Deep Eutectic Solvents Blended with Diethanolamine Solution for Postcombustion CO ₂ Capture. <i>Energy & Fuels</i> , 2022, 36, 945-957.	5.1	10
61	Feed Splitting as Energy Saving Technique in the Heterogeneous Distillation of Ethanol-Water Azeotropes. <i>Energy Technology</i> , 2016, 4, 424-428.	3.8	9
62	Investigation of catalyst particle hydrodynamic and heat transfer in three phase flow circulating fluidized bed. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 100-109.	5.6	8
63	Experimental investigation and modeling of viscosity effect on carbon dioxide absorption using sodium hydroxide. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2597-2604.	6.7	8
64	The effects of operating parameters on stage efficiency in an Oldshue-Rushton column. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2016, 22, 75-83.	0.7	8
65	SEPARATION OF SULFUR-CONTAINING COMPOUNDS FROM DIESEL BY OXIDATION FOLLOWED BY SOLVENT EXTRACTION IN A SINGLE DROP COLUMN. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1343-1355.	1.3	7
66	Insights Into the Mass Transfer Mechanisms of Nanofluids: A CO ₂ Absorption Study. <i>Energy & Fuels</i> , 2021, 35, 20172-20184.	5.1	7
67	A novel PFBHE (periodic fluidized bed heat exchanger): Introduction and preliminary performance evaluation. <i>Energy</i> , 2016, 107, 443-452.	8.8	4
68	An experimental investigation on the oxidative desulfurization of a mineral lubricant base oil. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 1951-1968.	3.0	4
69	Ultrasound assisted oxidative desulfurization of a model fuel using a deep eutectic solvent: Optimization and experimental design. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 171, 108724.	3.6	4
70	Numerical investigation of the application of high temperature air combustion in an industrial furnace. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2012, 226, 694-705.	1.4	3
71	Performance optimization of an industrial natural gas dehydration process to reduce energy consumption and greenhouse gases (GHGs) emission. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 476-490.	1.7	3
72	Experimental evaluation and modeling of liquid jet penetration to estimate droplet size in a three-phase riser reactor. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 293-309.	3.5	2

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73	A Deep Analytical Study in the Oxidation Polymerization Desulfurization Process Using a Keggin-Type Polyoxometalate Catalyst: Characterization of Solid and Liquid Products. Russian Journal of Applied Chemistry, 2019, 92, 1291-1305.	0.5	2
74	A Novel Method for Evaluation of the Flow Field Effects on Mean Drop Size in a Multiphase CFB. International Journal of Chemoinformatics and Chemical Engineering, 2015, 4, 13-36.	0.1	0