

Sattar Ghader

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

692
citations

566801

15
h-index

580395

25
g-index

44
all docs

44
docs citations

44
times ranked

597
citing authors

#	ARTICLE	IF	CITATIONS
1	New mathematical modeling of temperature-based properties of ionic liquids mixture: Comparison between semi-empirical equation and equation of state. <i>Chemical Engineering Research and Design</i> , 2022, 177, 331-353.	2.7	8
2	Solvent Extraction of Nickel and Zinc from Nitric Acid Solution Using D2EHPA: Experimental and Modeling. <i>Journal of Solution Chemistry</i> , 2022, 51, 424-447.	0.6	12
3	On the optimization of the crystallization related to an aqueous copper sulfate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$). <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2021, 130, 50-58.	0.1	1
4	Ionic liquid excess molar volume prediction: A conceptual comparison. <i>Journal of Molecular Liquids</i> , 2021, 336, 116581.	2.3	11
5	Numerical solution of particle size distribution equation: Rapid expansion of supercritical solution (RESS) process. <i>Particuology</i> , 2021, 57, 201-213.	2.0	13
6	Study on extraction and separation of Ni and Zn using [bmim][PF6] IL as selective extractant from nitric acid solution obtained from zinc plant residue leaching. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5821-5831.	2.3	23
7	Population balance modeling: application in nanoparticle formation through rapid expansion of supercritical solution. <i>Computational Particle Mechanics</i> , 2019, 6, 721-737.	1.5	22
8	Calculation of density, vapor pressure and heat capacity near the critical point by incorporating cubic SRK EoS and crossover translation. <i>Fluid Phase Equilibria</i> , 2019, 493, 10-25.	1.4	4
9	Solubility of Ibuprofen in Conventional Solvents and Supercritical CO ₂ : Evaluation of Ideal and Non-Ideal Models. <i>Chemistry and Chemical Technology</i> , 2019, 13, 1-10.	0.2	17
10	Application of the response surface methodology for modeling demulsification of crude oil emulsion using a demulsifier. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 700-710.	1.3	36
11	The effect of heat transfer on products of a thermally coupled shell and tube reactor consisting of two processes: Steam reforming of methane and oxidative coupling of methane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 133, 263-277.	1.8	5
12	Correlating ionic liquids density over wide range of temperature and pressure by volume shift concept. <i>Journal of Molecular Liquids</i> , 2017, 236, 172-183.	2.3	26
13	Enhancement of gasoline selectivity in combined reactor system consisting of steam reforming of methane and Fischer-Tropsch synthesis. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 87-99.	1.2	15
14	Application of a new equation of state to energy carriers. <i>Journal of Engineering Thermophysics</i> , 2016, 25, 143-150.	0.6	0
15	Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1571-1589.	1.2	1
16	Ag recovery from copper anode slime by acid leaching at atmospheric pressure to synthesize silver nanoparticles. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 251-257.	4.6	35
17	Theoretical analysis of oxidative coupling of methane and Fischer Tropsch synthesis in two consecutive reactors: Comparison of fixed bed and membrane reactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1811-1826.	2.9	18
18	Developing models for correlating ionic liquids density: Part 2 – Density at high pressures. <i>Fluid Phase Equilibria</i> , 2013, 358, 172-188.	1.4	5

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19	Mathematical modeling and simulation of an industrial rotary dryer: A case study of ammonium nitrate plant. Powder Technology, 2013, 239, 499-505.	2.1	29
20	A comparison of co-current and counter-current modes for Fischer-Tropsch synthesis in two consecutive reactors of oxidative coupling of methane and Fischer-Tropsch. Journal of Natural Gas Science and Engineering, 2013, 14, 1-16.	2.1	9
21	Reducing NO _x emissions from a nitric acid plant of domestic petrochemical complex: enhanced conversion in conventional radial-flow reactor of selective catalytic reduction process. Environmental Technology (United Kingdom), 2013, 34, 2867-2879.	1.2	4
22	Mathematical Modeling and Simulation of Drying Using Two Industrial Concurrent and Countercurrent Rotary Dryers for Ammonium Nitrate. Drying Technology, 2013, 31, 1297-1306.	1.7	7
23	Developing models for correlating ionic liquids density: Part 1 – Density at 0.1MPa. Fluid Phase Equilibria, 2012, 331, 33-47.	1.4	8
24	Failure analysis and modeling of super heater tubes of a waste heat boiler thermally coupled in ammonia oxidation reactor. Engineering Failure Analysis, 2012, 26, 285-292.	1.8	12
25	New isotherm regularity and an equation of state for gases and liquids. Journal of Industrial and Engineering Chemistry, 2012, 18, 474-482.	2.9	6
26	Prediction of Thermal Conductivity and Convective Heat Transfer Coefficient of Nanofluids by Local Composition Theory. Journal of Heat Transfer, 2011, 133, .	1.2	8
27	A simple kinetic model for oxidative coupling of methane over La _{0.6} Sr _{0.4} Co _{0.8} Fe _{0.2} O _{3-δ} nanocatalyst. Journal of Natural Gas Chemistry, 2011, 20, 325-333.	1.8	12
28	Description of polymer solutions phase equilibria by cubic equation of state with different mixing rules. Journal of Engineering Thermophysics, 2011, 20, 115-127.	0.6	1
29	Modifying GMA equation of state for description of (P, \bar{V} , T) relation of gas and liquids over an extended pressure range. Korean Journal of Chemical Engineering, 2011, 28, 939-948.	1.2	2
30	Density calculation of liquid organic compounds using a simple equation of state up to high pressures. Journal of Molecular Liquids, 2011, 160, 94-102.	2.3	8
31	Oxidative Coupling of Methane over Li/MgO: Catalyst and Nanocatalyst Performance. Chinese Journal of Chemical Physics, 2011, 24, 70-76.	0.6	13
32	Correlation of Shear Viscosity of Nanofluids Using the Local Composition Theory. Chinese Journal of Chemical Engineering, 2010, 18, 102-107.	1.7	15
33	A model for temperature and particle volume fraction effect on nanofluid viscosity. Journal of Molecular Liquids, 2010, 153, 139-145.	2.3	38
34	Kinetics investigation of direct natural gas conversion by oxidative coupling of methane. Journal of Natural Gas Science and Engineering, 2010, 2, 270-274.	2.1	12
35	Kinetics of Primary Nanoparticle Agglomeration in Precipitation of Silver. Chemical Engineering and Technology, 2009, 32, 835-839.	0.9	4
36	Precipitation kinetics of sodium bicarbonate in an industrial bubble column crystallizer. Crystal Research and Technology, 2009, 44, 159-166.	0.6	17

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37	Induction time of silver nanoparticles precipitation: Experiment and modeling. <i>Crystal Research and Technology</i> , 2009, 44, 953-960.	0.6	3
38	Experimental study on effect of different parameters on size and shape of triangular silver nanoparticles prepared by a simple and rapid method in aqueous solution. <i>Arabian Journal of Chemistry</i> , 2009, 2, 47-53.	2.3	42
39	Induction Time of Reaction Crystallization of Silver Nanoparticles. <i>Chemical Engineering and Technology</i> , 2007, 30, 1129-1133.	0.9	21
40	Enhancement of CO conversion in a novel Pd-Ag membrane reactor for methanol synthesis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 1181-1188.	1.8	58
41	Theoretical Investigation of a Pd-membrane Reactor for Methanol Synthesis. <i>Chemical Engineering and Technology</i> , 2003, 26, 902-907.	0.9	77
42	Incorporation of Flexibility in the Design of a Methanol Synthesis Loop in the Presence of Catalyst Deactivation. <i>Chemical Engineering and Technology</i> , 2003, 26, 672-678.	0.9	33