## Sattar Ghader

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Theoretical Investigation of a Pd-membrane Reactor for Methanol Synthesis. Chemical Engineering and Technology, 2003, 26, 902-907.	1.5	77
2	Enhancement of CO conversion in a novel Pd–Ag membrane reactor for methanol synthesis. Chemical Engineering and Processing: Process Intensification, 2004, 43, 1181-1188.	3.6	58
3	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. Arabian Journal of Chemistry, 2009, 2, 47-53.	4.9	42
4	A model for temperature and particle volume fraction effect on nanofluid viscosity. Journal of Molecular Liquids, 2010, 153, 139-145.	4.9	38
5	Application of the response surface methodology for modeling demulsification of crude oil emulsion using a demulsifier. Journal of Dispersion Science and Technology, 2018, 39, 700-710.	2.4	36
6	Ag recovery from copper anode slime by acid leaching at atmospheric pressure to synthesize silver nanoparticles. International Journal of Mining Science and Technology, 2014, 24, 251-257.	10.3	35
7	Incorporation of Flexibility in the Design of a Methanol Synthesis Loop in the Presence of Catalyst Deactivation. Chemical Engineering and Technology, 2003, 26, 672-678.	1.5	33
8	Mathematical modeling and simulation of an industrial rotary dryer: A case study of ammonium nitrate plant. Powder Technology, 2013, 239, 499-505.	4.2	29
9	Correlating ionic liquids density over wide range of temperature and pressure by volume shift concept. Journal of Molecular Liquids, 2017, 236, 172-183.	4.9	26
10	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. Arabian Journal of Chemistry, 2020, 13, 5821-5831.	4.9	23
11	Population balance modeling: application in nanoparticle formation through rapid expansion of supercritical solution. Computational Particle Mechanics, 2019, 6, 721-737.	3.0	22
12	Induction Time of Reaction Crystallization of Silver Nanoparticles. Chemical Engineering and Technology, 2007, 30, 1129-1133.	1.5	21
13	Theoretical analysis of oxidative coupling of methane and Fischer Tropsch synthesis in two consecutive reactors: Comparison of fixed bed and membrane reactor. Journal of Industrial and Engineering Chemistry, 2013, 19, 1811-1826.	5.8	18
14	Precipitation kinetics of sodium bicarbonate in an industrial bubble column crystallizer. Crystal Research and Technology, 2009, 44, 159-166.	1.3	17
15	Solubility of Ibuprofen in Conventional Solvents and Supercritical CO2: Evaluation of Ideal and Non-Ideal Models. Chemistry and Chemical Technology, 2019, 13, 1-10.	1.1	17
16	Correlation of Shear Viscosity of Nanofluids Using the Local Composition Theory. Chinese Journal of Chemical Engineering, 2010, 18, 102-107.	3.5	15
17	Enhancement of gasoline selectivity in combined reactor system consisting of steam reforming of methane and Fischer-Tropsch synthesis. Korean Journal of Chemical Engineering, 2017, 34, 87-99.	2.7	15
18	Oxidative Coupling of Methane over Li/MgO: Catalyst and Nanocatalyst Performance. Chinese Journal of Chemical Physics, 2011, 24, 70-76.	1.3	13

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19	Numerical solution of particle size distribution equation: Rapid expansion of supercritical solution (RESS) process. Particuology, 2021, 57, 201-213.	3.6	13
20	Kinetics investigation of direct natural gas conversion by oxidative coupling of methane. Journal of Natural Gas Science and Engineering, 2010, 2, 270-274.	4.4	12
21	A simple kinetic model for oxidative coupling of methane over La0.6Sr0.4Co0.8Fe0.2O3-l´ nanocatalyst. Journal of Natural Gas Chemistry, 2011, 20, 325-333.	1.8	12
22	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.	4.0	12
23	Solvent Extraction of Nickel and Zinc from Nitric Acid Solution Using D2EHPA: Experimental and Modeling. Journal of Solution Chemistry, 2022, 51, 424-447.	1.2	12
24	Ionic liquid excess molar volume prediction: A conceptual comparison. Journal of Molecular Liquids, 2021, 336, 116581.	4.9	11
25	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.	4.4	9
26	Prediction of Thermal Conductivity and Convective Heat Transfer Coefficient of Nanofluids by Local Composition Theory. Journal of Heat Transfer, 2011, 133, .	2.1	8
27	Density calculation of liquid organic compounds using a simple equation of state up to high pressures. Journal of Molecular Liquids, 2011, 160, 94-102.	4.9	8
28	Developing models for correlating ionic liquids density: Part 1 – Density at 0.1MPa. Fluid Phase Equilibria, 2012, 331, 33-47.	2.5	8
29	New mathematical modeling of temperature-based properties of ionic liquids mixture: Comparison between semi-empirical equation and equation of state. Chemical Engineering Research and Design, 2022, 177, 331-353.	5.6	8
30	Mathematical Modeling and Simulation of Drying Using Two Industrial Concurrent and Countercurrent Rotary Dryers for Ammonium Nitrate. Drying Technology, 2013, 31, 1297-1306.	3.1	7
31	New isotherm regularity and an equation of state for gases and liquids. Journal of Industrial and Engineering Chemistry, 2012, 18, 474-482.	5.8	6
32	Developing models for correlating ionic liquids density: Part 2 – Density at high pressures. Fluid Phase Equilibria, 2013, 358, 172-188.	2.5	5
33	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. Chemical Engineering and Processing: Process Intensification, 2018, 133, 263-277.	3.6	5
34	Kinetics of Primary Nanoparticle Agglomeration in Precipitation of Silver. Chemical Engineering and Technology, 2009, 32, 835-839.	1.5	4
35	Reducing NO <sub><i>x</i></sub> 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.	2.2	4
36	Calculation of density, vapor pressure and heat capacity near the critical point by incorporating cubic SRK EoS and crossover translation. Fluid Phase Equilibria, 2019, 493, 10-25.	2.5	4

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37	Induction time of silver nanoparticles precipitation: Experiment and modeling. Crystal Research and Technology, 2009, 44, 953-960.	1.3	3
38	Modifying GMA equation of state for description of (P, Ï, T) relation of gas and liquids over an extended pressure range. Korean Journal of Chemical Engineering, 2011, 28, 939-948.	2.7	2
39	Description of polymer solutions phase equilibria by cubic equation of state with different mixing rules. Journal of Engineering Thermophysics, 2011, 20, 115-127.	1.4	1
40	Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane. Korean Journal of Chemical Engineering, 2016, 33, 1571-1589.	2.7	1
41	On the optimization of the crystallization related to an aqueous copper sulfate (CuSO <sub>4</sub> .5H <sub>2</sub> O). Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2021, 130, 50-58.	0.2	1
42	Population Balance Equation Modeling of Crude Oil Demulsification Considering Demulsifier: Modification of Collision Frequency Function Based on Thermodynamic Model. International Journal of Engineering, Transactions A: Basics, 2017, 30, .	0.4	1
43	Application of a new equation of state to energy carriers. Journal of Engineering Thermophysics, 2016, 25, 143-150.	1.4	0