

Mohammad Taghi Sadeghi

List of Publications by Year in descending order

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38
papers

557
citations

567144

15
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677027

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38
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38
docs citations

38
times ranked

667
citing authors

#	ARTICLE	IF	CITATIONS
1	Wettability alteration of carbonate rocks from liquid-wetting to ultra gas-wetting using TiO ₂ , SiO ₂ and CNT nanofluids containing fluorochemicals, for enhanced gas recovery. Journal of Natural Gas Science and Engineering, 2015, 26, 1294-1305.	2.1	57
2	Intensification of diesel oxidative desulfurization via hydrodynamic cavitation. Ultrasonics Sonochemistry, 2019, 58, 104698.	3.8	35
3	Effect of NiO/SiO ₂ nanofluids on the ultra interfacial tension reduction between heavy oil and aqueous solution and their use for wettability alteration of carbonate rocks. Journal of Petroleum Science and Engineering, 2019, 176, 11-26.	2.1	31
4	Superamphiphobic Surfaces Prepared by Coating Multifunctional Nanofluids. ACS Applied Materials & Interfaces, 2016, 8, 32011-32020.	4.0	29
5	Coomassie Brilliant Blue (CBB) degradation using hydrodynamic cavitation, hydrogen peroxide and activated persulfate (HC-H ₂ O ₂ -KPS) combined process. Chemical Engineering and Processing: Process Intensification, 2019, 145, 107674.	1.8	28
6	Effects of operating parameters on oxidative coupling of methane over Na-W-Mn/SiO ₂ catalyst at elevated pressures. Journal of Natural Gas Chemistry, 2011, 20, 204-213.	1.8	26
7	Design and optimization of a cavitating device for Congo red decolorization: Experimental investigation and CFD simulation. Ultrasonics Sonochemistry, 2021, 71, 105386.	3.8	26
8	Micro-kinetic modeling of OCM reactions over Mn/Na ₂ WO ₄ /SiO ₂ catalyst. Fuel Processing Technology, 2013, 115, 79-87.	3.7	24
9	Experimental measurement and thermodynamic modelling of phase equilibria of semi-clathrate hydrates of (CO ₂ +tetra-n-butyl-ammonium bromide) aqueous solution. Journal of Chemical Thermodynamics, 2015, 87, 122-128.	1.0	22
10	Improvement of the prediction performance of a soft sensor model based on support vector regression for production of ultra-low sulfur diesel. Petroleum Science, 2015, 12, 177-188.	2.4	20
11	Optimization of Fischer-Tropsch Process in a Fixed-Bed Reactor Using Non-uniform Catalysts. Chemical Engineering and Technology, 2013, 36, 62-72.	0.9	19
12	Estimation of Kinetic Parameters for Hydrogenation Reactions Using a Genetic Algorithm. Chemical Engineering and Technology, 2009, 32, 1588-1594.	0.9	17
13	Desulfurization of non-hydrotreated kerosene using hydrodynamic cavitation assisted oxidative desulfurization (HCAOD) process. Journal of Environmental Chemical Engineering, 2020, 8, 103832.	3.3	17
14	High reliability estimation of product quality using support vector regression and hybrid meta-heuristic algorithms. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2225-2232.	2.7	16
15	Wettability alteration from superhydrophobic to superhydrophilic via synthesized stable nano-coating. Surface and Coatings Technology, 2017, 326, 79-86.	2.2	16
16	Analysis of autoignition of a turbulent lifted H ₂ /N ₂ jet flame issuing into a vitiated coflow. International Journal of Hydrogen Energy, 2013, 38, 2510-2522.	3.8	15
17	Optimization of OCM reaction conditions over Na-W-Mn/SiO ₂ catalyst at elevated pressure. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 751-759.	2.7	13
18	Combination of data rectification techniques and soft sensor model for robust prediction of sulfur content in HDS process. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 117-126.	2.7	13

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19	Mathematical modeling of aroma compound recovery from natural sources using hollow fiber membrane contactors with small packing fraction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 102, 194-201.	1.8	12
20	The optimization of continuous gas lift process using an integrated compositional model. <i>Journal of Petroleum Science and Engineering</i> , 2013, 108, 321-327.	2.1	11
21	Theoretical and experimental study of phase equilibrium of semi-clathrate hydrates of methane + Tetra-n-butyl-ammonium bromide aqueous solution. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1771-1779.	2.1	11
22	Impact of amine@ZnO/CNT and fatty acid@ZnO/CNT as hydrophilic functionalized nanocomposites on reduction of heavy oil viscosity. <i>Journal of Petroleum Science and Engineering</i> , 2019, 172, 199-208.	2.1	11
23	Chemical structure of autoignition in a turbulent lifted H ₂ /N ₂ jet flame issuing into a vitiated coflow. <i>Combustion and Flame</i> , 2013, 160, 2928-2940.	2.8	10
24	An upscaling approach using adaptive multi-resolution upgridding and automated relative permeability adjustment. <i>Computational Geosciences</i> , 2018, 22, 261-282.	1.2	10
25	Production improvement in gas condensate reservoirs by wettability alteration, using superamphiphobic titanium oxide nanofluid. <i>Oil and Gas Science and Technology</i> , 2018, 73, 46.	1.4	10
26	Improving oleophobicity and hydrophilicity of superhydrophobic surface by TiO ₂ -based coatings. <i>Materials Research Express</i> , 2018, 5, 085010.	0.8	10
27	Integrating principal component analysis and vector quantization with support vector regression for sulfur content prediction in HDS process. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2015, 21, 379-390.	0.4	8
28	Soft sensor design for hydrodesulfurization process using support vector regression based on WT and PCA. <i>Journal of Central South University</i> , 2015, 22, 511-521.	1.2	7
29	Development of a data-driven fuzzy screening model for enhanced oil recovery methods using an adaptive weighting system. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 3035-3051.	0.9	6
30	CFD Simulation of a Methane Steam Reforming Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2008, 6, .	0.6	5
31	The Optimization of an Ammonia Synthesis Reactor Using Genetic Algorithm. <i>International Journal of Chemical Reactor Engineering</i> , 2009, 6, .	0.6	5
32	Stable superhydrophilic coating on superhydrophobic porous media by functionalized nanoparticles. <i>Materials Research Express</i> , 2018, 5, 015019.	0.8	5
33	Facile fabrication of ultra-robust underwater superoleophobic coating with remarkable self-cleaning performance in harsh environments. <i>Materials Chemistry and Physics</i> , 2021, 263, 124413.	2.0	5
34	Compositional Description of Three-Phase Flow Model in a Gas-Lifted Well with High Water-Cut. <i>Oil and Gas Science and Technology</i> , 2013, 68, 331-340.	1.4	2
35	A novel three pseudo-component approach (ThPCA) for thermodynamic description of hydrocarbon-water systems. <i>Journal of Petroleum Exploration and Production</i> , 2014, 4, 281-289.	1.2	2
36	Improved Minimum Miscibility Pressure Prediction for Gas Injection Process in Petroleum Reservoir. <i>Natural Resources Research</i> , 2018, 27, 517-529.	2.2	2

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37	Performance Analysis of Compositional and Modified Black-Oil Models For a Gas Lift Process. Oil and Gas Science and Technology, 2013, 68, 319-330.	1.4	1
38	The Modeling and Simulation of the IWAG Process in Petroleum Reservoirs. Petroleum Science and Technology, 2010, 28, 1632-1642.	0.7	0