

Shahriar Osfour

List of Publications by Year in descending order

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73
papers

963
citations

471061

17
h-index

552369

26
g-index

73
all docs

73
docs citations

73
times ranked

914
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of alginate and chitosan nanoparticles using a new reverse micellar system. Iranian Polymer Journal (English Edition), 2012, 21, 99-107.	1.3	54
2	Technical and economic evaluation of flare gas recovery in a giant gas refinery. Chemical Engineering Research and Design, 2018, 131, 506-519.	2.7	54
3	Prediction of gas compressibility factor using intelligent models. Natural Gas Industry B, 2015, 2, 283-294.	1.4	47
4	Alginate-based electrospun core/shell nanofibers containing dexpanthenol: A good candidate for wound dressing. Journal of Drug Delivery Science and Technology, 2020, 57, 101708.	1.4	38
5	Experimental investigation of CO ₂ removal from N ₂ by metal oxide nanofluids in a hollow fiber membrane contactor. International Journal of Greenhouse Gas Control, 2018, 69, 60-71.	2.3	36
6	Improving the rheology, lubricity, and differential sticking properties of water-based drilling muds at high temperatures using hydrophilic Gilsonite nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123930.	2.3	36
7	Performance evaluation of natural native dyes as photosensitizer in dye-sensitized solar cells. Optical Materials, 2020, 110, 110441.	1.7	34
8	Wettability alteration of carbonate rocks from strongly liquid-wetting to strongly gas-wetting by fluorine-doped silica coated by fluorosilane. Journal of Dispersion Science and Technology, 2018, 39, 767-776.	1.3	27
9	Treatment of DMSO and DMAC wastewaters of various industries by employing Fenton process: Process performance and kinetics study. Journal of Environmental Chemical Engineering, 2020, 8, 103597.	3.3	26
10	Co-sensitization of natural and low-cost dyes for efficient panchromatic light-harvesting using dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 417, 113345.	2.0	24
11	Condensate blockage remediation in a gas reservoir through wettability alteration using natural CaCO ₃ nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123702.	2.3	23
12	Condensed DNA in Lipid Microcompartments. Journal of Physical Chemistry B, 2005, 109, 19929-19935.	1.2	22
13	Application of fluorinated nanofluid for production enhancement of a carbonate gas-condensate reservoir through wettability alteration. Materials Research Express, 2018, 5, 035008.	0.8	22
14	Prediction of carbon dioxide dissolution in bulk water under isothermal pressure decay at different boundary conditions. Journal of Molecular Liquids, 2015, 202, 23-33.	2.3	21
15	Study of production enhancement through wettability alteration in a super-giant gas-condensate reservoir. Journal of Molecular Liquids, 2017, 233, 64-74.	2.3	21
16	Synthesis of fluorine- doped silica-coating by fluorosilane nanofluid to ultrahydrophobic and ultraoleophobic surface. Materials Research Express, 2017, 4, 105010.	0.8	20
17	Fabrication of optimized eco-friendly dye-sensitized solar cells by extracting pigments from low-cost native wild plants. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112191.	2.0	19
18	Measurement and modeling of CO ₂ diffusion coefficient in Saline Aquifer at reservoir conditions. Open Engineering, 2013, 3, .	0.7	18

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19	Measurement of CO ₂ diffusivity in synthetic and saline aquifer solutions at reservoir conditions: the role of ion interactions. <i>Heat and Mass Transfer</i> , 2015, 51, 1587-1595.	1.2	18
20	Wettability alteration of calcite and dolomite carbonates using silica nanoparticles coated with fluorine groups. <i>Journal of Petroleum Science and Engineering</i> , 2020, 188, 106915.	2.1	17
21	Modeling hydrate formation conditions in the presence of electrolytes and polar inhibitor solutions. <i>Journal of Chemical Thermodynamics</i> , 2015, 89, 251-263.	1.0	15
22	Experimental investigation of wax deposition from waxy oil mixtures. <i>Applied Petrochemical Research</i> , 2019, 9, 77-90.	1.3	15
23	Evaluation of mass transfer coefficient for gas condensates in porous systems: Experimental and modeling. <i>Fuel</i> , 2019, 255, 115507.	3.4	14
24	Choke modeling and flow splitting in a gas-condensate offshore platform. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 1163-1170.	2.1	13
25	Production assessment of low production rate of well in a supergiant gas condensate reservoir: application of an integrated strategy. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 543-560.	1.2	13
26	Electrochemical Study of Antioxidant Capacity of <i>Gracilaria Pygmaea</i> Macro-Algae Based on the Green Synthesis of Gold Nanoparticles: Assessment of Its Cytotoxic Effect on Four Cancer Cell Lines. <i>Journal of the Electrochemical Society</i> , 2019, 166, B969-B977.	1.3	13
27	Wettability alteration of carbonate oil reservoir surface using biocompatible nanoparticles. <i>Materials Research Express</i> , 2019, 6, 025033.	0.8	13
28	Onset of instability in CO ₂ sequestration into saline aquifer: scaling relationship and the effect of perturbed boundary. <i>Heat and Mass Transfer</i> , 2013, 49, 1603-1612.	1.2	12
29	Modeling liquid-liquid and vapor-liquid equilibria for the hydrocarbon+N-formylmorpholine system using the CPA equation of state. <i>Chemical Engineering Science</i> , 2013, 98, 152-159.	1.9	12
30	Suggesting a numerical pressure-decay method for determining CO ₂ diffusion coefficient in water. <i>Journal of Molecular Liquids</i> , 2015, 211, 31-39.	2.3	12
31	Experimental and modeling investigation of non-equilibrium condensate vaporization in porous systems: Effective determination of mass transfer coefficient. <i>Fuel</i> , 2020, 262, 116011.	3.4	12
32	Effect of DSO, EVA, and SiO ₂ and clay nanohybrids on rheological properties of waxy oil mixtures. <i>Materials Research Express</i> , 2018, 5, 095027.	0.8	11
33	Stability of Alumina Nanofluid in Water/Methanol Base Fluid in the Presence of Different Salts. <i>Journal of Nanofluids</i> , 2018, 7, 235-245.	1.4	11
34	Performance Improvement of the Surfactant Polymer Flooding Using Bio Synthesized Calcium Carbonate Nanoparticles: An Experimental Approach. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 11775-11792.	1.7	11
35	Bovine Serum Albumin-Loaded Chitosan Particles: An Evaluation of Effective Parameters on Fabrication, Characteristics, and in Vitro Release in the Presence of Non-Covalent Interactions. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 1079-1090.	1.8	10
36	Novel method for estimation of gas/oil relative permeabilities. <i>Journal of Molecular Liquids</i> , 2016, 223, 1185-1191.	2.3	10

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37	Investigations of antioxidant potential and protective effect of Acanthophora algae on DNA damage: An electrochemical approach. <i>Microchemical Journal</i> , 2020, 159, 105455.	2.3	10
38	Experimental Study of CO ₂ " Saline Aquifer-Carbonate Rock Interaction during CO ₂ Sequestration. <i>Procedia Earth and Planetary Science</i> , 2015, 15, 413-420.	0.6	9
39	Presenting decision tree for best mixing rules and Z-factor correlations and introducing novel correlation for binary mixtures. <i>Petroleum</i> , 2016, 2, 289-295.	1.3	9
40	Synthesis and evaluation of NiO@MCM-41 core-shell nanocomposite in the CO ₂ reforming of methane. <i>Journal of Porous Materials</i> , 2018, 25, 1135-1145.	1.3	9
41	Study of wax disappearance temperature using multi-solid thermodynamic model. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 437-448.	1.2	9
42	Particles aggregation and fragmentation " A Monte Carlo study. <i>Chemical Physics</i> , 2019, 517, 6-12.	0.9	9
43	Synthesis and characterization of hydrophilic gilsonite fine particles for improving water-based drilling mud properties. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1633-1642.	1.3	9
44	Novel Method for estimation of Gas/Oil relative Permeabilities. <i>Journal of Molecular Liquids</i> , 2016, 224, 1109-1116.	2.3	8
45	Density, viscosity, surface tension, and excess properties of DSO and gas condensate mixtures. <i>Applied Petrochemical Research</i> , 2017, 7, 119-129.	1.3	8
46	Experimental measurement and modeling study for estimation of wax disappearance temperature. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 161-170.	1.3	8
47	Fabrication, characterization and in vivo evaluation of dexpanthenol sustained-release nanofibers for wound healing. <i>Polymer Testing</i> , 2020, 91, 106827.	2.3	8
48	Mass transfer during transient condensate vaporization: Experimental and modeling study. <i>Journal of Molecular Liquids</i> , 2021, 325, 114022.	2.3	8
49	Impact of fluid characterization on compositional gradient in a volatile oil reservoir. <i>Journal of Petroleum Exploration and Production</i> , 2016, 6, 835-844.	1.2	7
50	Kinetic modeling of asphaltene nano-aggregates formation using dynamic light scattering technique. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107293.	2.1	7
51	Modeling of well productivity enhancement in a gas-condensate reservoir through wettability alteration: A comparison between smart optimization strategies. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 94, 104059.	2.1	7
52	Efficiency and stability improvement of natural dye-sensitized solar cells using the electrospun composite of TiO_2 nanofibres doped by the Ca nanoparticles. <i>International Journal of Energy Research</i> , 2022, 46, 15407-15418.	2.2	7
53	Impacts of paste preparation methods on the porous TiO ₂ nanostructure properties and naturally dye-sensitized solar cells performance. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4816-4833.	2.6	6
54	Vacancy Solution Theory for Partitioning of Protein in Reverse-Micellar Systems. <i>Separation Science and Technology</i> , 2003, 38, 553-569.	1.3	5

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55	Wilson Non-random Factor Reference State Based Model for Prediction of Gas Hydrate Formation Conditions in the Presence of Electrolyte and/or Alcohol in Solution. <i>Journal of Solution Chemistry</i> , 2015, 44, 1382-1406.	0.6	5
56	Experimental Investigation of Rheological Behavior and Wax Deposition of Waxy Oil—Disulfide Oil Systems. <i>Natural Resources Research</i> , 2019, 28, 1609-1617.	2.2	5
57	Evaluation of phase trapping models in gas-condensate systems in an unconsolidated sand pack. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107848.	2.1	5
58	Computer-Aided Exergy Evaluation of Hydrothermal Liquefaction for Biocrude Production from <i>Nannochloropsis</i> sp.. <i>Bioenergy Research</i> , 2022, 15, 141-153.	2.2	5
59	Linear perturbation analysis of density change caused by dissolution of carbon dioxide in saline aqueous phase. <i>Journal of Molecular Liquids</i> , 2015, 209, 539-548.	2.3	4
60	Modeling of drug release and simultaneous enhancement of tensile strength and antioxidant activity of the electrospun nanofibres using naturally extracted oil from <i>Pistacia atlantica</i> . <i>Polymer Testing</i> , 2022, 107, 107492.	2.3	4
61	Reducing the Environmental Impacts of Desalination Reject Brine Using Modified Solvay Process Based on Calcium Oxide. <i>Sustainability</i> , 2022, 14, 2298.	1.6	4
62	Adsorption of natural CaCO_3 nanoparticles on the reservoir rock surfaces in the enhanced oil recovery process: equilibrium, thermodynamics, and kinetics study. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 1963-1976.	1.3	3
63	Fabrication and characterization of $\text{YCa}_2\text{Cu}_3\text{O}_7$ superconductors using natural CaCO_3 nanoparticles extracted from <i>Sepia pharaonis</i> . <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	2
64	Modelling of batch biomethanation process for maximizing income based on values of consumed and produced gases. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 815-826.	1.2	2
65	Analysis of asphaltene nano-aggregates formation using dynamic light scattering: Experimental and kinetic modeling. <i>Journal of Dispersion Science and Technology</i> , 2023, 44, 1147-1158.	1.3	2
66	Prediction of CO_2 mass transfer parameters to light oil in presence of surfactants and silica nanoparticles synthesized in cationic reverse micellar system. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 44-52.	1.2	1
67	A comprehensive model for the prediction of fluid compositional gradient in two-dimensional porous media. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2221-2234.	1.2	1
68	Green methane production: Kinetic and mass transfer modeling in a batch process. <i>Biomass and Bioenergy</i> , 2021, 148, 106005.	2.9	1
69	Computational fluid dynamics analysis of CO_2 absorption intensification in a hollow fiber membrane contactor using SiO_2 and carbon nanotubes nanofluids. <i>Environmental Progress and Sustainable Energy</i> , 0, , e13777.	1.3	1
70	Accurate, cost-effective strategy for lean gas condensate sampling, characterization, and phase equilibria study. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 110085.	2.1	1
71	Dynamics of water state in nanoconfined environment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 828-832.	2.7	0
72	Experimental investigation and kinetic modeling of nanocrystal growth for scale reduction in mono-ethylene glycol regeneration unit. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	0

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73	Capillary Phase Trapping. Petroleum Engineering, 2022, , 415-464.	0.6	0