

# Amir H Mohammadi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

372  
papers

10,148  
citations

50  
h-index

75  
g-index

378  
ext. papers

11,706  
ext. citations

4.1  
avg, IF

7.04  
L-index

#	Paper	IF	Citations
372	Screening of important parameters in optimal design of compressed air energy storage system using an ensemble learning method. <i>Journal of Energy Storage</i> , <b>2022</b> , 48, 104023	7.8	1
371	Natural gas hydrate stability conditions and water activity in aqueous solutions containing mono ethylene glycol (MEG) and salt: Experimental measurements and thermodynamic modeling. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 554, 113322	2.5	0
370	Modeling of Catalytic CO <sub>2</sub> Methanation Using Smart Computational Schemes. <i>Chemical Engineering and Technology</i> , <b>2022</b> , 45, 135	2	0
369	A thermodynamic framework for determination of gas hydrate stability conditions and water activity in ionic liquid aqueous solution. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 347, 118358	6	1
368	Kinetics of methane + hydrogen sulfide clathrate hydrate formation in the presence/absence of poly N-vinyl pyrrolidone (PVP) and L-tyrosine: Experimental study and modeling of the induction time. <i>Chemical Engineering Science</i> , <b>2022</b> , 250, 117384	4.4	0
367	Experimental Investigation of Foam Flooding Using Anionic and Nonionic Surfactants: A Screening Scenario to Assess the Effects of Salinity and pH on Foam Stability and Foam Height.. <i>ACS Omega</i> , <b>2022</b> , 7, 14832-14847	3.9	1
366	Experimental measurements of CO <sub>2</sub> solubility, viscosity, density, sound velocity and evaporation rate for 2-(2-aminoethoxy)ethanol (DGA) + 1-methylpyrrolidin-2-one (NMP) / water + ionic liquid systems. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 113475	2.5	
365	Estimating flashpoints of fuels and chemical compounds using hybrid machine-learning techniques. <i>Fuel</i> , <b>2022</b> , 323, 124292	7.1	0
364	Semi-clathrate hydrate phase stability conditions for methane-TetraButylAmmonium Bromide (TBAB)/TetraButylAmmonium Acetate (TBAA)-water system: Experimental measurements and thermodynamic modeling. <i>Oil and Gas Science and Technology</i> , <b>2021</b> , 76, 75	1.9	1
363	AdaBoost Metalearning Methodology for Modeling the Incipient Dissociation Conditions of Clathrate Hydrates. <i>ACS Omega</i> , <b>2021</b> , 6, 26919-26931	3.9	1
362	Simulation and Optimization of the Acid Gas Absorption Process by an Aqueous Diethanolamine Solution in a Natural Gas Sweetening Unit. <i>ACS Omega</i> , <b>2021</b> , 6, 12072-12080	3.9	1
361	Synergic effects of dissolved carbon dioxide and an anionic surfactant synthesized from Rapeseed oil on interfacial tension (IFT) reduction, wettability alteration, and oil swelling in the process of chemical water injection into carbonate oil reservoirs. <i>Fuel</i> , <b>2021</b> , 290, 120011	7.1	1
360	Model development for estimating calcium sulfate dihydrate, hemihydrate, and anhydrite solubilities in multicomponent acid and salt containing aqueous solutions over wide temperature ranges. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 328, 115473	6	3
359	Effects of diethanolamine and ethylene glycol-diethanolamine aqueous solutions on methane hydrate stability conditions: Experimental measurements and thermodynamic modeling. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 328, 115472	6	4
358	Development of thermodynamic frameworks for modeling of clathrate hydrates stability conditions in porous media. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 329, 115463	6	2
357	On the Evaluation of Interfacial Tension (IFT) of CO <sub>2</sub> -Paraffin System for Enhanced Oil Recovery Process: Comparison of Empirical Correlations, Soft Computing Approaches, and Parachor Model. <i>Energies</i> , <b>2021</b> , 14, 3045	3.1	10
356	Evaluation of CO Absorption by Amino Acid Salt Aqueous Solution Using Hybrid Soft Computing Methods. <i>ACS Omega</i> , <b>2021</b> , 6, 12459-12469	3.9	2

355	Use of hybrid-ANFIS and ensemble methods to calculate minimum miscibility pressure of CO <sub>2</sub> - reservoir oil system in miscible flooding process. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 331, 115369	6	1
354	Double-Chain Single-Head modification of extracted saponin from <i>Anabasis Setifera</i> plant and its effects on chemical enhanced oil recovery process by surfactant-alkali slug injection into carbonate oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 201, 108438	4.4	5
353	Fluoro-chemical foam injection for wettability alteration of sandstone and carbonate reservoirs rocks towards gas-wet state. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 91, 103943	4.6	1
352	Effects of a ketone mutual solvent on the dynamic and equilibrium behaviors of crude oil swelling in enhanced oil recovery process by carbonated seawater flooding. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 196, 108005	4.4	2
351	Insights into kinetic inhibition effects of MEG, PVP, and L-tyrosine aqueous solutions on natural gas hydrate formation. <i>Petroleum Science</i> , <b>2021</b> , 18, 495-508	4.4	11
350	Insight into the Estimation of Equilibrium CO <sub>2</sub> Absorption by Deep Eutectic Solvents using Computational Approaches. <i>Separation Science and Technology</i> , <b>2021</b> , 56, 2351-2368	2.5	5
349	Molecular descriptors-based models for estimating net heat of combustion of chemical compounds. <i>Energy</i> , <b>2021</b> , 217, 119292	7.9	5
348	Modeling stability conditions of methane Clathrate hydrate in ionic liquid aqueous solutions. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 114804	6	7
347	Effects of Graphene Oxide Nanosheets and Al <sub>2</sub> O <sub>3</sub> Nanoparticles on CO <sub>2</sub> Uptake in Semi-clathrate Hydrates. <i>Chemical Engineering and Technology</i> , <b>2021</b> , 44, 48-57	2	5
346	Rheological characteristics and flow dynamics of polymer nanohybrids in enhancing oil recovery from low permeable carbonate oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 197, 107959	4.4	7
345	Improving the economic efficiency of vapor recovery units at hydrocarbon loading terminals. <i>Oil and Gas Science and Technology</i> , <b>2021</b> , 76, 38	1.9	3
344	Chemical Enhanced Oil Recovery by Different Scenarios of Slug Injection into Carbonate/Sandstone Composite Oil Reservoirs Using an Anionic Surfactant Derived from Rapeseed Oil. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 1248-1258	4.1	7
343	Investigation of Mixed MEA-Based Solvents Featuring Ionic Liquids and NMP for CO <sub>2</sub> Capture: Experimental Measurement of CO <sub>2</sub> Solubility and Thermophysical Properties. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 899-914	2.8	2
342	Experimental Determinations of the Complete Inhibition, the Slow Growth, and the Rapid Failure Regions of Methane Hydrate Formation in the Presence of Polyvinylpyrrolidone and Polyvinylcaprolactam Aqueous Solutions. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 3780-3787	4.1	2
341	Drilling Parameters Optimization Using an Innovative Artificial Intelligence Model. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2021</b> , 143,	2.6	4
340	Determination of clathrate hydrates dissociation conditions in aqueous solutions of methanol and salt using the e-NRTL based model. <i>Fluid Phase Equilibria</i> , <b>2021</b> , 546, 113121	2.5	0
339	Towards estimating absorption of major air pollutant gasses in ionic liquids using soft computing methods. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 127, 109-118	5.3	3
338	Review of higher heating value of municipal solid waste based on analysis and smart modelling. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 151, 111591	16.2	4

337	Estimation of higher heating values (HHVs) of biomass fuels based on ultimate analysis using machine learning techniques and improved equation. <i>Renewable Energy</i> , <b>2021</b> , 179, 550-562	8.1	6
336	Modeling of CO <sub>2</sub> absorption capabilities of amino acid solutions using a computational scheme. <i>Environmental Progress and Sustainable Energy</i> , <b>2020</b> , 39, e13430	2.5	4
335	Thermodynamic modeling of clathrate hydrate stability conditions in the presence of amino acid aqueous solution. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 313, 113488	6	7
334	Evaluation of interfacial tension (IFT), oil swelling and oil production under imbibition of carbonated water in carbonate oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 312, 113455	6	9
333	Effect of asphaltene structure on its aggregation behavior in toluene-normal alkane mixtures. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1220, 128605	3.4	16
332	Primary evaluation of a synthesized surfactant from waste chicken fat as a renewable source for chemical slug injection into carbonate oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 306, 112843	6	17
331	Experimental study of the relationship between porosity and surface area of carbonate reservoir rocks. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 1817-1834	2.2	10
330	Effects of methanol and acetone as mutual solvents on wettability alteration of carbonate reservoir rock and imbibition of carbonated seawater. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 195, 107609	4.4	6
329	Experimental study and kinetic modeling of R410a hydrate formation in presence of SDS, tween 20, and graphene oxide nanosheets with application in cold storage. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 304, 112665	6	17
328	Effect of Various Isolated Microbial Consortia on the Biodegradation Process of Precipitated Asphaltenes from Crude Oil. <i>ACS Omega</i> , <b>2020</b> , 5, 3131-3143	3.9	10
327	Estimation of adsorption capacity of CO <sub>2</sub> , CH <sub>4</sub> , and their binary mixtures in Quidam shale using LSSVM: Application in CO <sub>2</sub> enhanced shale gas recovery and CO <sub>2</sub> storage. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 76, 103204	4.6	28
326	Utilization of methanol and acetone as mutual solvents to reduce interfacial tension (IFT) in enhanced oil recovery process by carbonated smart water injection. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 304, 112733	6	14
325	Clathrate hydrate based approach for concentration of sugar aqueous solution, orange juice, and tomato juice: Phase equilibrium modeling using a thermodynamic framework. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 512, 112460	2.5	4
324	A good contribution of computational fluid dynamics (CFD) and GA-ANN methods to find the best type of helical wire inserted tube in heat exchangers. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 154, 106398	4.1	19
323	Effect of a synthesized anionic fluorinated surfactant on wettability alteration for chemical treatment of near-wellbore zone in carbonate gas condensate reservoirs. <i>Petroleum Science</i> , <b>2020</b> , 17, 1655-1668	4.4	15
322	Estimation of cetane numbers of biodiesel and diesel oils using regression and PSO-ANFIS models. <i>Renewable Energy</i> , <b>2020</b> , 158, 465-473	8.1	23
321	Experimental study of the performances of commercial surfactants in reducing interfacial tension and wettability alteration in the process of chemical water injection into carbonate reservoirs. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 1551-1563	2.2	12
320	The mutual effects of injected fluid and rock during imbibition in the process of low and high salinity carbonated water injection into carbonate oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 305, 112432	6	14

319	Estimation of CO <sub>2</sub> equilibrium absorption in aqueous solutions of commonly used amines using different computational schemes. <i>Fuel</i> , <b>2020</b> , 264, 116616	7.1	11
318	Modeling of cetane number of biodiesel from fatty acid methyl ester (FAME) information using GA-, PSO-, and HGAPSO- LSSVM models. <i>Renewable Energy</i> , <b>2020</b> , 150, 924-934	8.1	47
317	Hydrate Phase Equilibria of Methane + Mixed (TBAB + THF) in the Presence and Absence of NaCl and/or MgCl <sub>2</sub> Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 217-221	2.8	12
316	Experimental study and thermodynamic modeling of clathrate hydrate stability conditions in carbon dioxide + cyclopentane + water system: Retrograde region. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 298, 112083	6	6
315	Water-oil interfacial tension (IFT) reduction and wettability alteration in surfactant flooding process using extracted saponin from <i>Anabasis Setifera</i> plant. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 189, 106901	4.4	40
314	Experimental investigation of the effect of green TiO <sub>2</sub> /Quartz nanocomposite on interfacial tension reduction, wettability alteration, and oil recovery improvement. <i>Fuel</i> , <b>2020</b> , 263, 116599	7.1	39
313	Quantitative structure property relationship schemes for estimation of autoignition temperatures of organic compounds. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 300, 111797	6	9
312	Characterization and likelihood application of extracted mucilage from Hollyhocks plant as a natural polymer in enhanced oil recovery process by alkali-surfactant-polymer (ASP) slug injection into sandstone oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 320, 114445	6	10
311	The effects of graphene oxide nanosheets and Al <sub>2</sub> O <sub>3</sub> nanoparticles on the kinetics of methane + THF hydrate formation at moderate conditions. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 316, 113872	6	16
310	Hydrate Stability Conditions of CO <sub>2</sub> + TBPB + Cyclopentane + Water System: Experimental Measurements and Thermodynamic Modeling. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 4092-4099	2.8	3
309	Evaluation of Pollutant Emissions into the Atmosphere during the Loading of Hydrocarbons in Marine Oil Tankers in the Arctic Region. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 917	2.4	7
308	Estimation of CO <sub>2</sub> adsorption in high capacity metal-organic frameworks: Applications to greenhouse gas control. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 41, 101256	7.6	14
307	Hydrate Phase Equilibria of Methane + TBAC + Water System in the Presence and Absence of NaCl and/or MgCl <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 4684-4691	2.8	4
306	Wettability alteration and enhanced gas condensate recovery by treatment of carbonate reservoir rock using supercritical R134A and R404A gases. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 3751-3766	2.2	3
305	Phase Stability Conditions of the Methane + Tetrabutylphosphonium Bromide + Water Semiclathrate Hydrate System in the Presence and Absence of NaCl and/or MgCl <sub>2</sub> : Experimental Measurements and Thermodynamic Modeling. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 14034-14045	4.1	2
304	Characterization and evaluation of a natural surfactant extracted from Soapwort plant for alkali-surfactant-polymer (ASP) slug injection into sandstone oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 318, 114369	6	16
303	Experimental investigation of the effect of Vitagnus plant extract on enhanced oil recovery process using interfacial tension (IFT) reduction and wettability alteration mechanisms. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 2895-2905	2.2	11
302	Optimization of perforated liner parameters in horizontal oil wells. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 3505-3514	2.2	3

301	Experimental measurements and thermodynamic modelling of hydrate phase equilibrium conditions for CF <sub>4</sub> +TBAB aqueous solutions. <i>Chemical Engineering Communications</i> , <b>2020</b> , 207, 185-193	2.2	1
300	Kinetics of CO <sub>2</sub> hydrate formation in coffee aqueous solution: Application in coffee concentration. <i>Journal of Dispersion Science and Technology</i> , <b>2020</b> , 41, 895-901	1.5	8
299	Simulation and energy optimization of a reformatte stabilizer unit in a petrochemical plant. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 42, 104-112	1.6	1
298	Effects of Tragacanth Gum as a natural polymeric surfactant and soluble ions on chemical smart water injection into oil reservoirs. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1200, 127078	3.4	24
297	Effects of TiO <sub>2</sub> , MgO and Al <sub>2</sub> O <sub>3</sub> nano-particles on wettability alteration and oil production under carbonated nano-fluid imbibition in carbonate oil reservoirs. <i>Fuel</i> , <b>2020</b> , 259, 116110	7.1	27
296	Experimental measurements and thermodynamic modeling of hydrate dissociation conditions in CO <sub>2</sub> + THF + NaCl + water systems. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 141, 105956	2.9	10
295	Towards ANFIS-PSO strategy for estimating viscosity of ternary mixtures containing ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 298, 111802	6	1
294	Experimental measurement and thermodynamic modeling of hydrate dissociation conditions for (CO <sub>2</sub> + TBAC + cyclopentane + water) system. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 144, 105979	2.9	8
293	An insight into the modeling of sulfur content of sour gases in supercritical region. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 184, 106459	4.4	26
292	Recovery enhancement of liquid hydrocarbons in dew point control unit of natural gas processing plant. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 1407-1414	2.5	1
291	Modeling of the solubility of H <sub>2</sub> S in [bmim][PF <sub>6</sub> ] by molecular dynamics simulation, GA-ANFIS and empirical approaches. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1637-1647	2.8	11
290	Estimation of biomass higher heating value (HHV) based on the proximate analysis: Smart modeling and correlation. <i>Fuel</i> , <b>2019</b> , 257, 115931	7.1	32
289	Experimental Determination of Gas Hydrates Dissociation Conditions in CO <sub>2</sub> /N <sub>2</sub> + Ethanol/1-Propanol/TBAB/TBAF + Water Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 763-770	2.8	7
288	An insight into the estimation of fatty acid methyl ester based biodiesel properties using a LSSVM model. <i>Fuel</i> , <b>2019</b> , 243, 133-141	7.1	49
287	Decision tree-based modeling of CO <sub>2</sub> equilibrium absorption in different aqueous solutions of absorbents. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, S441-S448	2.5	15
286	Phase Stability Conditions for Clathrate Hydrates Formation in CO <sub>2</sub> + (NaCl or CaCl <sub>2</sub> or MgCl <sub>2</sub> ) + Cyclopentane + Water Systems: Experimental Measurements and Thermodynamic Modeling. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4638-4646	2.8	7
285	Investigating the effect of [C8Py][Cl] and [C18Py][Cl] ionic liquids on the water/oil interfacial tension by considering Taguchi method. <i>Journal of Petroleum Exploration and Production</i> , <b>2019</b> , 9, 2933-2941	2.2	31
284	Experimental and modelling studies on the effects of nanofluids (SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , and CuO) and surfactants (SDS and CTAB) on CH <sub>4</sub> and CO <sub>2</sub> clathrate hydrates formation. <i>Fuel</i> , <b>2019</b> , 253, 1392-1405	7.1	31

283	Modeling asphaltene precipitation during natural depletion of reservoirs and evaluating screening criteria for stability of crude oils. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 181, 106127	4.4	8
282	Application of Extended UNIQUAC Activity Coefficient Model for Predicting the Clathrate Hydrate Stability Conditions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4647-4657	2.8	3
281	Phase stability conditions for clathrate hydrate formation in (fluorinated refrigerant + water + single and mixed electrolytes + cyclopentane) systems: Experimental measurements and thermodynamic modelling. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 136, 59-76	2.9	10
280	An experimental study of the synergistic effects of BMIM-BF <sub>4</sub> , BMIM-DCA and TEACl aqueous solutions on methane hydrate formation. <i>Petroleum Science</i> , <b>2019</b> , 16, 409-416	4.4	13
279	Clathrate hydrate formation of CO <sub>2</sub> in the presence of water miscible (1,4-dioxane) and partially water miscible (cyclopentane) organic compounds: Experimental measurement and thermodynamic modeling. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 179, 465-473	4.4	8
278	Estimating n-tetradecane/bitumen mixture viscosity in solvent-assisted oil recovery process using GEP and GMDH modeling approaches. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 1640-1647	1.4	5
277	Radial basis function (RBF) network for modeling gasoline properties. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 1306-1313	1.4	3
276	Characterization of C <sub>7+</sub> fraction properties of crude oils and gas-condensates using data driven models. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 1516-1522	1.4	3
275	Estimation of the dissociation conditions and storage capacities of various sH clathrate hydrate systems using effective deterministic frameworks. <i>Fuel</i> , <b>2019</b> , 247, 272-286	7.1	9
274	Evolving generalized correlations based on Peng-Robinson equation of state for estimating dynamic viscosities of alkanes in supercritical region. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 284, 755-764	6	
273	Evaluation of wax disappearance temperatures in hydrocarbon fluids using soft computing approaches. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 829-836	1.4	3
272	Thermodynamic Stability Conditions of Clathrate Hydrates in Methane/Carbon Dioxide + Tetrahydrofuran + Cyclopentane + Water Systems: Experimental Measurement and Modeling. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 934-943	2.8	2
271	Magnetic nanoFe <sub>2</sub> O <sub>3</sub> Incorporated PEBA membranes for CO <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /N <sub>2</sub> separation: experimental study and grand canonical Monte Carlo and molecular dynamics simulations <b>2019</b> , 9, 306-330		8
270	Efficient estimation of CO <sub>2</sub> solubility in aqueous salt solutions. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 283, 804-815	6	15
269	Effects of dissolved carbon dioxide and ions in water on the dynamic interfacial tension of water and oil in the process of carbonated smart water injection into oil reservoirs. <i>Fuel</i> , <b>2019</b> , 243, 569-578	7.1	31
268	Experimental study and modeling of the kinetics of gas hydrate formation for acetylene, ethylene, propane and propylene in the presence and absence of SDS. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 506-512	1.4	2
267	Modelling asphaltene precipitation titration data: A committee of machines and a group method of data handling. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 431-441	2.3	11
266	A dynamic method for experimental assessment of scale inhibitor efficiency in oil recovery process by water flooding. <i>Petroleum</i> , <b>2019</b> , 5, 303-314	4.1	15

265	State of the art and kinetics of refrigerant hydrate formation. <i>International Journal of Refrigeration</i> , <b>2019</b> , 98, 410-427	3.8	17
264	Effects of concentration and size of TiO <sub>2</sub> nano-particles on the performance of smart water in wettability alteration and oil production under spontaneous imbibition. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 183, 106357	4.4	29
263	Economic and productivity evaluation of different horizontal drilling scenarios: Middle East oil fields as case study. <i>Journal of Petroleum Exploration and Production</i> , <b>2019</b> , 9, 2449-2460	2.2	5
262	Kinetic study of methane hydrate formation in the presence of carbon nanostructures. <i>Petroleum Science</i> , <b>2019</b> , 16, 657-668	4.4	18
261	Effects of TiO <sub>2</sub> , MgO, and Al <sub>2</sub> O <sub>3</sub> nano-particles in carbonated water on water-oil interfacial tension (IFT) reduction in chemical enhanced oil recovery (CEOR) process. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 292, 111348	6	39
260	Separation and transport specification of a novel PEBA-1074/PEG-400/TiO <sub>2</sub> nanocomposite membrane for light gas separation: Molecular simulation study. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 291, 111268	6	4
259	Effect of using Zyziphus Spina Christi or Cedr Extract (CE) as a natural surfactant on oil mobility control by foam flooding. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 293, 111573	6	21
258	An efficient model for estimation of gypsum (calcium sulfate di-hydrate) solubility in aqueous electrolyte solutions over wide temperature ranges. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 281, 655-670	6	8
257	An insight into thermodynamic consistency of hydrogen sulfide sulfur content data at isobaric conditions. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 763-769	1.4	1
256	Response to comment on the paper Molecular dynamics simulation and Monte Carlo study of transport and structural properties of PEBA 1657 and 2533 membranes modified by functionalized POSS-PEG material. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 296, 111788	6	
255	Experimental Measurements and Thermodynamic Modeling of Hydrate Dissociation Conditions for Methane + TBAB + NaCl, MgCl <sub>2</sub> , or NaCl-MgCl <sub>2</sub> + Water Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 23405-23416	3.9	15
254	Rigorous prognostication of permeability of heterogeneous carbonate oil reservoirs: Smart modeling and correlation development. <i>Fuel</i> , <b>2019</b> , 236, 110-123	7.1	39
253	Effects of ions and dissolved carbon dioxide in brine on wettability alteration, contact angle and oil production in smart water and carbonated smart water injection processes in carbonate oil reservoirs. <i>Fuel</i> , <b>2019</b> , 235, 1039-1051	7.1	34
252	VLE measurements and modelling for the binary systems of (CF <sub>4</sub> + C6F14) and (CF <sub>4</sub> + C8F18). <i>Fluid Phase Equilibria</i> , <b>2019</b> , 485, 146-152	2.5	2
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250	Modeling Equilibrium Systems of Amine-Based CO <sub>2</sub> Capture by Implementing Machine Learning Approaches. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, 13160	2.5	5
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248	Enhancement of biogas production efficiency using appropriate low-temperature pretreatments of municipal treatment plants' excess sludge. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, e13072	2.5	0



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240	Effects of dissolved binary ionic compounds and different densities of brine on interfacial tension (IFT), wettability alteration, and contact angle in smart water and carbonated smart water injection processes in carbonate oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 254, 83-92	6	47
239	Determination of the gas hydrate formation limits to isenthalpic Joule-Thomson expansions. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 132, 208-214	5.5	32
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124	On the application of binary correction factors in lattice distortion calculations for methane clathrate hydrates. <i>Philosophical Magazine</i> , <b>2014</b> , 94, 974-990	1.6	6
123	PHASE EQUILIBRIA OF CLATHRATE HYDRATES IN HYDROGEN SULFIDE + DIETHYLENE GLYCOL OR TRIETHYLENE GLYCOL + WATER SYSTEM. <i>Chemical Engineering Communications</i> , <b>2014</b> , 201, 225-232	2.2	3
122	Hybrid of Two Heuristic Optimizations with LSSVM to Predict Refractive Index as Asphaltene Stability Identifier. <i>Journal of Dispersion Science and Technology</i> , <b>2014</b> , 35, 1041-1050	1.5	13

121	Gas Analysis by In Situ Combustion in Heavy-Oil Recovery Process: Experimental and Modeling Studies. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 409-418	2	38
120	A chemical structure-based model for estimating speed of sound in liquids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 116, 529-538	4.1	4
119	Assessment of competitive dye removal using a reliable method. <i>Journal of Environmental Chemical Engineering</i> , <b>2014</b> , 2, 1672-1683	6.8	14
118	Phase Equilibria of Clathrate Hydrates of Ethyne + Propane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 2914-2919	2.8	19
117	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 466-475	2.8	54
116	Phase equilibria of semiclathrate hydrates for methane+tetra n-butylammonium chloride (TBAC), carbon dioxide+TBAC, and nitrogen+TBAC aqueous solution systems. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 381, 102-107	2.5	38
115	Are the reservoir fluid compositional grading data reliable?. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 363, 27-31	2.5	2
114	Prediction of Surfactant Retention in Porous Media: A Robust Modeling Approach. <i>Journal of Dispersion Science and Technology</i> , <b>2014</b> , 35, 1407-1418	1.5	15
113	Kinetic study of carbon dioxide hydrate formation in presence of silver nanoparticles and SDS. <i>Chemical Engineering Journal</i> , <b>2014</b> , 237, 387-395	14.7	182
112	Reservoir oil viscosity determination using a rigorous approach. <i>Fuel</i> , <b>2014</b> , 116, 39-48	7.1	105
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109	Determination of the normal boiling point of chemical compounds using a quantitative structure-property relationship strategy: Application to a very large dataset. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 354, 250-258	2.5	15
108	Toward an intelligent approach for determination of saturation pressure of crude oil. <i>Fuel Processing Technology</i> , <b>2013</b> , 115, 201-214	7.2	60
107	Asphaltene precipitation due to natural depletion of reservoir: Determination using a SARA fraction based intelligent model. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 354, 177-184	2.5	88
106	Impact of Different Surfactants and their Mixtures on Methane-Hydrate Formation. <i>Energy Technology</i> , <b>2013</b> , 1, 471-477	3.5	37
105	Toward a predictive model for estimating dew point pressure in gas condensate systems. <i>Fuel Processing Technology</i> , <b>2013</b> , 116, 317-324	7.2	70
104	Determination of Methane-Hydrate Phase Equilibrium in the Presence of Electrolytes or Organic Inhibitors by using a Semi-Theoretical Framework. <i>Energy Technology</i> , <b>2013</b> , 1, 519-529	3.5	19



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101	Dissociation Data and Thermodynamic Modeling of Clathrate Hydrates of Ethene, Ethyne, and Propene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 3259-3264	2.8	28
100	An assessment test for phase equilibrium data of water soluble and insoluble clathrate hydrate formers. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 360, 68-76	2.5	17
99	Robust Model for the Determination of Wax Deposition in Oil Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 15664-15672	3.9	59
98	Dissociation Data of Semiclathrate Hydrates for the Systems of Tetra-n-butylammonium Fluoride (TBAF) + Methane + Water, TBAF + Carbon Dioxide + Water, and TBAF + Nitrogen + Water. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 3545-3550	2.8	50
97	Assessment test of sulfur content of gases. <i>Fuel Processing Technology</i> , <b>2013</b> , 110, 133-140	7.2	26
96	Semi-clathrate hydrate phase equilibrium measurements for the CO <sub>2</sub> +H <sub>2</sub> /CH <sub>4</sub> +tetra-n-butylammonium bromide aqueous solution system. <i>Chemical Engineering Science</i> , <b>2013</b> , 94, 284-290	4.4	50
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94	Experimental Study and Modeling of Ultrafiltration of Refinery Effluents Using a Hybrid Intelligent Approach. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 3523-3537	4.1	65
93	Phase equilibria of neohexane/methyl cyclopentane+nitrogen clathrate hydrates. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 348, 79-82	2.5	4
92	Thermodynamic consistency test for isobaric experimental data of water content of methane. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 347, 54-61	2.5	13
91	Hydrate phase equilibria of furan, acetone, 1,4-dioxane, TBAC and TBAF. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 64, 151-158	2.9	33
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88	Intelligent model for prediction of CO <sub>2</sub> Reservoir oil minimum miscibility pressure. <i>Fuel</i> , <b>2013</b> , 112, 375-384	7.1	125
87	Experimental measurement and thermodynamic modeling of methane hydrate dissociation conditions in the presence of aqueous solution of ionic liquid. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 354, 312-318	2.5	61
86	Assessment test for glycol loss in gaseous system. <i>Fuel Processing Technology</i> , <b>2013</b> , 115, 254-260	7.2	6

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82	Phase Equilibria of Clathrate Hydrates of Ethane + Ethene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 896-901	2.8	25
81	CLATHRATE HYDRATE PHASE EQUILIBRIA FOR CARBONYL SULFIDE, HYDROGEN SULFIDE, ETHYLENE, OR PROPANE + WATER SYSTEM BELOW WATER FREEZING POINT. <i>Chemical Engineering Communications</i> , <b>2013</b> , 200, 1635-1644	2.2	8
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62	Thermodynamic modeling of pressure-temperature phase diagrams of binary clathrate hydrates of methane, carbon dioxide or nitrogen + tetrahydrofuran, 1,4-dioxane or acetone. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 320, 32-37	2.5	35
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59	Gas Hydrate Phase Equilibrium in Methane + Ethylene Glycol, Diethylene Glycol, or Triethylene Glycol + Water System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4544-4548	2.8	25
58	Determination of Sulfur Content of Various Gases Using Chrastil-Type Equations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 7682-7687	3.9	15
57	Thermodynamic Consistency Test for Experimental Data of Sulfur Content of Hydrogen Sulfide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 3555-3563	3.9	33
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46	Determination of Critical Properties and Acentric Factors of Pure Compounds Using the Artificial Neural Network Group Contribution Algorithm. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 2460-2476	2.8	59
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44	Artificial Neural Network modeling of solubility of supercritical carbon dioxide in 24 commonly used ionic liquids. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 3039-3044	4.4	111
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29	Methane hydrate phase equilibrium in the presence of NaBr, KBr, CaBr <sub>2</sub> , K <sub>2</sub> CO <sub>3</sub> , and MgCl <sub>2</sub> aqueous solutions: Experimental measurements and predictions of dissociation conditions. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 779-782	2.9	61
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23	Thermodynamic Model for Predicting Liquid Water-Hydrate Equilibrium of the Water-Hydrocarbon System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 1346-1350	3.9	28
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3	A Semiempirical Approach for Estimating the Water Content of Natural Gases. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 7137-7147	3.9	31
2	Equilibrium Data and Thermodynamic Modeling of Nitrogen, Oxygen, and Air Clathrate Hydrates. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2003</b> , 48, 612-616	2.8	73
1	Preliminary evaluation of a natural surfactant extracted from <i>Myrtus communis</i> plant for enhancing oil recovery from carbonate oil reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 1	2.2	5