

# Amir H Mohammadi

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3806821/amir-h-mohammadi-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Application of gas hydrate formation in separation processes: A review of experimental studies. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 46, 62-71	2.9	403
371	Carbon monoxide clathrate hydrates: Equilibrium data and thermodynamic modeling. <i>AIChE Journal</i> , <b>2005</b> , 51, 2825-2833	3.6	231
370	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
369	Phase Equilibria of Semiclathrate Hydrates of CO <sub>2</sub> , N <sub>2</sub> , CH <sub>4</sub> , or H <sub>2</sub> + Tetra-n-butylammonium Bromide Aqueous Solution. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3855-3865	2.8	154
368	Gas solubility measurement and modeling for methane-water and methane-ethane-butane-water systems at low temperature conditions. <i>Fluid Phase Equilibria</i> , <b>2004</b> , 220, 113-121	2.5	150
367	Gas hydrates of methane, ethane, propane, and carbon dioxide in the presence of single NaCl, KCl, and CaCl <sub>2</sub> aqueous solutions: Experimental measurements and predictions of dissociation conditions. <i>Journal of Chemical Thermodynamics</i> , <b>2008</b> , 40, 1693-1697	2.9	134
366	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
365	Phase equilibrium modeling of clathrate hydrates of methane, carbon dioxide, nitrogen, and hydrogen+water soluble organic promoters using Support Vector Machine algorithm. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 316, 34-45	2.5	123
364	Phase Equilibria of Methane and Carbon Dioxide Clathrate Hydrates in the Presence of Aqueous Solutions of Tributylmethylphosphonium Methylsulfate Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3620-3629	2.8	115
363	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
362	Reservoir oil viscosity determination using a rigorous approach. <i>Fuel</i> , <b>2014</b> , 116, 39-48	7.1	105
361	A novel method for evaluation of asphaltene precipitation titration data. <i>Chemical Engineering Science</i> , <b>2012</b> , 78, 181-185	4.4	100
360	Recent advances in application of nanotechnology in chemical enhanced oil recovery: Effects of nanoparticles on wettability alteration, interfacial tension reduction, and flooding. <i>Egyptian Journal of Petroleum</i> , <b>2018</b> , 27, 1371-1383	3.4	95
359	Wettability alteration and interfacial tension (IFT) reduction in enhanced oil recovery (EOR) process by ionic liquid flooding. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 248, 153-162	6	93
358	Phase equilibrium measurements for semi-clathrate hydrates of the (CO <sub>2</sub> +N <sub>2</sub> +tetra-n-butylammonium bromide) aqueous solution system. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 46, 57-61	2.9	91
357	Compositional Analysis and Hydrate Dissociation Conditions Measurements for Carbon Dioxide + Methane + Water System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 5783-5794	3.9	91
356	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

355	Solubility Parameters of Nonelectrolyte Organic Compounds: Determination Using Quantitative Structure-Property Relationship Strategy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 11382-11395	3.9	86
354	Rigorous modeling of CO <sub>2</sub> equilibrium absorption in ionic liquids. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 58, 19-41	4.2	83
353	Gas Hydrate Phase Equilibrium in the Presence of Ethylene Glycol or Methanol Aqueous Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 8865-8869	3.9	78
352	Effects of water soluble ions on interfacial tension (IFT) between oil and brine in smart and carbonated smart water injection process in oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 987-993	6.3	74
351	Phase Equilibria of Semi-Clathrate Hydrates of Tetra-n-butylammonium Bromide + Hydrogen Sulfide and Tetra-n-butylammonium Bromide + Methane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 982-984	2.8	73
350	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
349	Thermodynamic modeling of phase equilibria of semi-clathrate hydrates of CO <sub>2</sub> , CH <sub>4</sub> , or N <sub>2</sub> +tetra-n-butylammonium bromide aqueous solution. <i>Chemical Engineering Science</i> , <b>2012</b> , 81, 319-328	4.4	71
348	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
347	Thermodynamic model for predicting phase equilibria of simple clathrate hydrates of refrigerants. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 5439-5445	4.4	70
346	Phase Equilibria of Methane Hydrates in the Presence of Methanol and/or Ethylene Glycol Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 925-928	3.9	70
345	Experimental Data and Predictions of Dissociation Conditions for Ethane and Propane Simple Hydrates in the Presence of Methanol, Ethylene Glycol, and Triethylene Glycol Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 683-686	2.8	69
344	Experimental and modeling studies on adsorption of a nonionic surfactant on sandstone minerals in enhanced oil recovery process with surfactant flooding. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 1022-1032	6.3	67
343	Phase Equilibrium Modeling of Structure H Clathrate Hydrates of Methane + Water [Insoluble] Hydrocarbon Promoter Using QSPR Molecular Approach. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3775-3793	2.8	66
342	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
341	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
340	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
339	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
338	Toward mechanistic understanding of asphaltene aggregation behavior in toluene: The roles of asphaltene structure, aging time, temperature, and ultrasonic radiation. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 264, 410-424	6	59

337	Application of ANFIS soft computing technique in modeling the CO <sub>2</sub> capture with MEA, DEA, and TEA aqueous solutions. <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 49, 47-54	4.2	59
336	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
335	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
334	Application of constrained multi-variable search methods for prediction of PVT properties of crude oil systems. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 363, 121-130	2.5	57
333	Use of an artificial neural network algorithm to predict hydrate dissociation conditions for hydrogen+water and hydrogen+tetra-n-butyl ammonium bromide+water systems. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 4302-4305	4.4	57
332	Prediction of CO <sub>2</sub> loading capacities of aqueous solutions of absorbents using different computational schemes. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 57, 143-161	4.2	55
331	Evaluation of experimental data for wax and diamondoids solubility in gaseous systems. <i>Chemical Engineering Science</i> , <b>2012</b> , 81, 1-7	4.4	55
330	Phase equilibrium measurements for semi-clathrate hydrates of the (CO <sub>2</sub> +N <sub>2</sub> +tetra-n-butylammonium bromide) aqueous solution systems: Part 2. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 322-323, 105-112	2.5	55
329	Methane hydrate phase equilibrium in the presence of salt (NaCl, KCl, or CaCl <sub>2</sub> ) + ethylene glycol or salt (NaCl, KCl, or CaCl <sub>2</sub> ) + methanol aqueous solution: Experimental determination of dissociation condition. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 1374-1377	2.9	55
328	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
327	Phase equilibria of clathrate hydrates of methyl cyclopentane, methyl cyclohexane, cyclopentane or cyclohexane+carbon dioxide. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 5319-5322	4.4	53
326	Compositional Model for Estimating Asphaltene Precipitation Conditions in Live Reservoir Oil Systems. <i>Journal of Dispersion Science and Technology</i> , <b>2015</b> , 36, 301-309	1.5	51
325	Application of a radial basis function neural network to estimate pressure gradient in wateroil pipelines. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 58, 189-202	5.3	50
324	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
323	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
322	Estimation of Water Content for Methane + Water and Methane + Ethane + n-Butane + Water Systems Using a New Sampling Device. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2005</b> , 50, 1157-1161	2.8	50
321	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
320	A monodisperse thermodynamic model for estimating asphaltene precipitation. <i>AIChE Journal</i> , <b>2007</b> , 53, 2940-2947	3.6	49

319	Measurements and Thermodynamic Modeling of Vapor-Liquid Equilibria in Ethane-Water Systems from 274.26 to 343.08 K. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 5418-5424	3.9	49
318	Kinetic study of methane hydrate formation in the presence of copper nanoparticles and CTAB. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 34, 803-810	4.6	49
317	Artificial neural network, ANN-PSO and ANN-ICA for modelling the Stirling engine. <i>International Journal of Ambient Energy</i> , <b>2016</b> , 37, 456-468	2	48
316	On the evaluation of asphaltene precipitation titration data: Modeling and data assessment. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 415, 88-100	2.5	48
315	Phase equilibria of clathrate hydrates of methane + carbon dioxide: New experimental data and predictions. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 296, 60-65	2.5	48
314	Effect of nano silica particles on Interfacial Tension (IFT) and mobility control of natural surfactant (Cedr Extraction) solution in enhanced oil recovery process by nano - surfactant flooding. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 248, 163-167	6	47
313	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
312	Prediction of Air Specific Heat Ratios at Elevated Pressures Using a Novel Modeling Approach. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 2047-2055	2	47
311	Volumetric properties of the (tetrahydrofuran+water) and (tetra-n-butyl ammonium bromide+water) systems: Experimental measurements and correlations. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 1382-1386	2.9	47
310	Experimental Measurements and Predictions of Dissociation Conditions for Carbon Dioxide and Methane Hydrates in the Presence of Triethylene Glycol Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 2053-2055	2.8	47
309	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
308	Experimental Data and Predictions of Dissociation Conditions for Ethane and Propane Simple Hydrates in the Presence of Distilled Water and Methane, Ethane, Propane, and Carbon Dioxide Simple Hydrates in the Presence of Ethanol Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 50, 72-76	2.8	46
307	Experimental and modeling studies on the effects of temperature, pressure and brine salinity on interfacial tension in live oil-brine systems. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 219, 985-993	6	46
306	Computational fluid dynamics (CFD) technique to study the effects of helical wire inserts on heat transfer and pressure drop in a double pipe heat exchanger. <i>Applied Thermal Engineering</i> , <b>2018</b> , 128, 898-910	5.8	45
305	Study of Gas Hydrate Formation in the Carbon Dioxide + Hydrogen + Water Systems: Compositional Analysis of the Gas Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 6455-6459	3.9	45
304	Effects of water soluble ions on wettability alteration and contact angle in smart and carbonated smart water injection process in oil reservoirs. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 244, 440-452	6	44
303	Representation/Prediction of Solubilities of Pure Compounds in Water Using Artificial Neural Network-Group Contribution Method. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 720-726	2.8	43
302	Phase equilibria of binary clathrate hydrates of nitrogen+cyclopentane/cyclohexane/methyl cyclohexane and ethane+cyclopentane/cyclohexane/methyl cyclohexane. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 4936-4940	4.4	43

301	Hydrate phase equilibria for hydrogen+water and hydrogen+tetrahydrofuran+water systems: Predictions of dissociation conditions using an artificial neural network algorithm. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 3352-3355	4.4	42
300	Efficient screening of enhanced oil recovery methods and predictive economic analysis. <i>Neural Computing and Applications</i> , <b>2014</b> , 25, 815-824	4.8	41
299	Development of corresponding states model for estimation of the surface tension of chemical compounds. <i>AIChE Journal</i> , <b>2013</b> , 59, 613-621	3.6	41
298	New tools predict monoethylene glycol injection rate for natural gas hydrate inhibition. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2015</b> , 33, 222-231	3.5	41
297	Estimating Sulfur Content of Hydrogen Sulfide at Elevated Temperatures and Pressures Using an Artificial Neural Network Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8499-8504	3.9	41
296	A smooth model for the estimation of gas/vapor viscosity of hydrocarbon fluids. <i>Journal of Natural Gas Science and Engineering</i> , <b>2015</b> , 26, 1452-1459	4.6	40
295	Optimisation of the thermodynamic performance of the Stirling engine. <i>International Journal of Ambient Energy</i> , <b>2016</b> , 37, 149-161	2	40
294	Phase equilibria of hydrogen sulfide and carbon dioxide simple hydrates in the presence of methanol, (methanol+NaCl) and (ethylene glycol+NaCl) aqueous solutions. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 44, 26-30	2.9	40
293	Application of Wilcoxon generalized radial basis function network for prediction of natural gas compressibility factor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2015</b> , 50, 131-141	5.3	40
292	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
291	Modeling of CO <sub>2</sub> solubility in crude oil during carbon dioxide enhanced oil recovery using gene expression programming. <i>Fuel</i> , <b>2017</b> , 210, 768-782	7.1	39
290	Experimental study and modeling of methane hydrate formation induction time in the presence of ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 221, 149-155	6	39
289	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
288	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
287	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
286	Improved estimation of Cetane number of fatty acid methyl esters (FAMES) based biodiesels using TLBO-NN and PSO-NN models. <i>Fuel</i> , <b>2018</b> , 232, 620-631	7.1	38
285	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
284	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

283	Thermodynamic Consistency Test for Experimental Solubility Data in Carbon Dioxide/Methane + Water System Inside and Outside Gas Hydrate Formation Region. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 1573-1586	2.8	38
282	Impact of Different Surfactants and their Mixtures on Methane-Hydrate Formation. <i>Energy Technology</i> , <b>2013</b> , 1, 471-477	3.5	37
281	Experimental Measurements and Predictions of Gas Hydrate Dissociation Conditions in the Presence of Methanol and Ethane-1,2-diol Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 1474-1479	2.8	37
280	Hydrate phase equilibria of CO <sub>2</sub> +N <sub>2</sub> +aqueous solution of THF, TBAB or TBAF system. <i>International Journal of Greenhouse Gas Control</i> , <b>2014</b> , 26, 185-192	4.2	36
279	Development of a group contribution method for the estimation of heat capacities of ionic liquids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 115, 1863-1882	4.1	36
278	Compositional analysis of the gas phase for the CO <sub>2</sub> +N <sub>2</sub> +tetra-n-butylammonium bromide aqueous solution systems under hydrate stability conditions. <i>Chemical Engineering Science</i> , <b>2012</b> , 84, 40-47	4.4	36
277	Thermodynamic consistency test for experimental data of water content of methane. <i>AIChE Journal</i> , <b>2011</b> , 57, 2566-2573	3.6	36
276	Extension of an Artificial Neural Network Algorithm for Estimating Sulfur Content of Sour Gases at Elevated Temperatures and Pressures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 439-442	3.9	36
275	Molecular dynamics, grand canonical Monte Carlo and expert simulations and modeling of water/acetone pervaporation using polyvinyl alcohol/tetraethyl orthosilicates membrane. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 265, 53-68	6	36
274	Monodisperse Thermodynamic Model Based on Chemical + Flory-Huggins Polymer Solution Theories for Predicting Asphaltene Precipitation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 4041-4055	3.9	35
273	Gas Hydrate Phase Equilibrium in Porous Media: Mathematical Modeling and Correlation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 1062-1072	3.9	35
272	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
271	Toward prediction of petroleum reservoir fluids properties: A rigorous model for estimation of solution gas-oil ratio. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 29, 506-516	4.6	34
270	A Mathematical Model Based on Artificial Neural Network Technique for Estimating Liquid Water-Hydrate Equilibrium of Water-Hydrocarbon System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 4966-4970	3.9	34
269	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
268	Performance evaluation of the machine learning approaches in modeling of CO <sub>2</sub> equilibrium absorption in Piperazine aqueous solution. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 255, 375-383	6	33
267	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
266	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

265	Comparison of two soft computing approaches for predicting CO <sub>2</sub> solubility in aqueous solution of piperazine. <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 53, 85-97	4.2	33
264	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
263	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
262	Evaluation of Thermal Conductivity of Gases at Atmospheric Pressure through a Corresponding States Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 3844-3849	3.9	32
261	Empirical Method for Representing the Flash-Point Temperature of Pure Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 5877-5880	3.9	32
260	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
259	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
258	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
257	Integrating a robust model for predicting surfactant-polymer flooding performance. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 137, 87-96	4.4	31
256	On the estimation of viscosities and densities of CO <sub>2</sub> -loaded MDEA, MDEA + AMP, MDEA + DIPA, MDEA + MEA, and MDEA + DEA aqueous solutions. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 146-159	6	31
255	Water Content Measurement and Modeling in the Nitrogen + Water System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2005</b> , 50, 541-545	2.8	31
254	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
253	Experimental measurements and thermodynamic modeling of refrigerant hydrates dissociation conditions. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 80, 30-40	2.9	30
252	Characterizing the CO <sub>2</sub> -brine interfacial tension (IFT) using robust modeling approaches: A comparative study. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 246, 32-38	6	30
251	Experimental Measurements and Predictions of Dissociation Conditions for Methane, Ethane, Propane, and Carbon Dioxide Simple Hydrates in the Presence of Diethylene Glycol Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 663-666	2.8	30
250	Experimental study and modeling of the kinetics of refrigerant hydrate formation. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 82, 47-52	2.9	29
249	Efficient estimation of hydrolyzed polyacrylamide (HPAM) solution viscosity for enhanced oil recovery process by polymer flooding. <i>Oil and Gas Science and Technology</i> , <b>2018</b> , 73, 22	1.9	29
248	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



247	Rigorous modeling of CO <sub>2</sub> equilibrium absorption in MEA, DEA, and TEA aqueous solutions. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 18, 39-46	4.6	29
246	A Novel Predictive Technique for Estimating the Hydrate Inhibition Effects of Single and Mixed Thermodynamic Inhibitors. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 83, 951-961	2.3	29
245	Estimating the Hydrate Safety Margin in the Presence of Salt and/or Organic Inhibitor Using Freezing Point Depression Data of Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 4441-4446	3.9	29
244	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
243	Condensate blockage study in gas condensate reservoir. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 33, 634-643	4.6	28
242	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
241	Thermodynamic Model for the Prediction of Equilibrium Conditions of Clathrate Hydrates of Methane + Water-Soluble or -Insoluble Hydrate Former. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 9437-9450	3.9	28
240	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
239	ANFIS modeling of ionic liquids densities. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 965-975	6	27
238	Effects of TiO <sub>2</sub> nanoparticles and oleic acid surfactant on the rheological behavior of engine lubricant oil. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 925-930	6	27
237	Phase equilibria of carbon dioxide clathrate hydrates in the presence of methanol/ethylene glycol+single salt aqueous solutions: experimental measurement and prediction. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 342, 71-74	2.5	27
236	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
235	On the evaluation of Fast-SAGD process in naturally fractured heavy oil reservoir. <i>Fuel</i> , <b>2015</b> , 143, 155-164	7.1	26
234	Kinetic and thermodynamic behaviour of CF <sub>4</sub> clathrate hydrates. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 81, 52-59	2.9	26
233	Determination of minimum miscibility pressure in N <sub>2</sub> -brude oil system: A robust compositional model. <i>Fuel</i> , <b>2016</b> , 182, 402-410	7.1	26
232	Group contribution methods for estimating CO <sub>2</sub> absorption capacities of imidazolium and ammonium-based polyionic liquids. <i>Journal of Cleaner Production</i> , <b>2018</b> , 203, 601-618	10.3	26
231	Assessment test of sulfur content of gases. <i>Fuel Processing Technology</i> , <b>2013</b> , 110, 133-140	7.2	26
230	Induction time, storage capacity, and rate of methane hydrate formation in the presence of SDS and silver nanoparticles. <i>Chemical Engineering Communications</i> , <b>2017</b> , 204, 1420-1427	2.2	26

229	Modeling of stability conditions of natural gas clathrate hydrates using least squares support vector machine approach. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 1081-1092	6	26
228	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
227	Application of decision tree learning in modelling CO <sub>2</sub> equilibrium absorption in ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 594-605	6	25
226	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
225	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
224	Wax Solubility in Gaseous System: Thermodynamic Consistency Test of Experimental Data. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 4731-4740	3.9	24
223	Gas Solubility: A Key to Estimating the Water Content of Natural Gases. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 4825-4829	3.9	24
222	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
221	Development of robust generalized models for estimating the normal boiling points of pure chemical compounds. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 59-69	6	23
220	Clathrate hydrate dissociation conditions for the methane+cycloheptane/cyclooctane+water and carbon dioxide+cycloheptane/cyclooctane+water systems. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 3356-3361	4.4	23
219	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
218	On the prediction of Watson characterization factor of hydrocarbons. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 231, 419-429	6	22
217	Predictive model based on ANFIS for estimation of thermal conductivity of carbon dioxide. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 1266-1274	6	22
216	Rapid method for the estimation of dew point pressures in gas condensate reservoirs. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 60, 258-266	5.3	22
215	Decline curve based models for predicting natural gas well performance. <i>Petroleum</i> , <b>2017</b> , 3, 242-248	4.1	22
214	Computational procedure for determination of minimum miscibility pressure of reservoir oil. <i>Fuel</i> , <b>2013</b> , 106, 707-711	7.1	22
213	Experimental measurement and thermodynamic modeling of equilibrium condition for natural gas hydrate in MEG aqueous solution. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 459, 110-118	2.5	22
212	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

211	Thermodynamic model for prediction of phase equilibria of clathrate hydrates of hydrogen with different alkanes, alkenes, alkynes, cycloalkanes or cycloalkene. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 336, 71-78	2.5	21
210	Development of a general model for determination of thermal conductivity of liquid chemical compounds at atmospheric pressure. <i>AIChE Journal</i> , <b>2013</b> , 59, 1702-1708	3.6	21
209	Determination of Critical Properties and Acentric Factors of Petroleum Fractions Using Artificial Neural Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 3225-3232	3.9	21
208	Prediction of Hydrate Phase Equilibria in Aqueous Solutions of Salt and Organic Inhibitor Using a Combined Equation of State and Activity Coefficient-Based Model. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 83, 865-871	2.3	21
207	Prediction of solubility of solid compounds in supercritical CO <sub>2</sub> using a connectionist smart technique. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 120, 181-190	4.2	20
206	Rigorous prognostication and modeling of gas adsorption on activated carbon and Zeolite-5A. <i>Journal of Environmental Management</i> , <b>2018</b> , 224, 58-68	7.9	20
205	Thermodynamic Modeling of Salt Precipitation and Gas Hydrate Inhibition Effect of Salt Aqueous Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5074-5079	3.9	20
204	Molecular simulation and Monte Carlo study of structural-transport-properties of PEBA-MFI zeolite mixed matrix membranes for CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> separation. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 103, 12-22	4	19
203	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
202	An accurate CSA-LSSVM model for estimation of densities of ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 954-964	6	19
201	Determination of asphaltene precipitation conditions during natural depletion of oil reservoirs: A robust compositional approach. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 412, 235-248	2.5	19
200	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
199	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
198	A statistical method for evaluation of the experimental phase equilibrium data of simple clathrate hydrates. <i>Chemical Engineering Science</i> , <b>2012</b> , 80, 402-408	4.4	19
197	Phase Equilibria of Hydrogen Sulfide Clathrate Hydrates in the Presence of Methanol, Ethanol, NaCl, KCl, or CaCl <sub>2</sub> Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 7847-7851	3.9	19
196	Estimation of minimum miscibility pressure (MMP) in enhanced oil recovery (EOR) process by N <sub>2</sub> flooding using different computational schemes. <i>Fuel</i> , <b>2019</b> , 235, 1455-1474	7.1	19
195	Toward generalized models for estimating molecular weights and acentric factors of pure chemical compounds. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2699-2717	6.7	18
194	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

193	Thermodynamic modeling of the dissociation conditions of hydrogen sulfide clathrate hydrate in the presence of aqueous solution of inhibitor (alcohol, salt or ethylene glycol). <i>Chemical Engineering Research and Design</i> , <b>2014</b> , 92, 2283-2293	5.5	18
192	Effects of Different Surfactants on the Kinetics of Ethane-Hydrate Formation: Experimental and Modeling Studies. <i>Energy Technology</i> , <b>2013</b> , 1, 530-536	3.5	18
191	An accurate model for predictions of vaporization enthalpies of hydrocarbons and petroleum fractions. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 192-199	6	18
190	Reliable modeling of constant volume depletion (CVD) behaviors in gas condensate reservoirs. <i>Fuel</i> , <b>2018</b> , 231, 146-156	7.1	18
189	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
188	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
187	Thermodynamic stability conditions of clathrate hydrates for refrigerant (R134a or R410a or R507) with MgCl <sub>2</sub> aqueous solution. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 413, 92-98	2.5	17
186	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
185	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
184	Phase behavior of mixture of supercritical CO <sub>2</sub> + ionic liquid: Thermodynamic consistency test of experimental data. <i>AIChE Journal</i> , <b>2013</b> , 59, 3892-3913	3.6	17
183	Condensate blockage alleviation around gas-condensate producing wells using wettability alteration. <i>Journal of Natural Gas Science and Engineering</i> , <b>2019</b> , 62, 214-223	4.6	17
182	On modeling of bitumen/n-tetradecane mixture viscosity: Application in solvent-assisted recovery method. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2018</b> , 13, e2152	1.3	17
181	CO <sub>2</sub> capture with aqueous solution of sodium glycinate: Modeling using an ensemble method. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 62, 23-30	4.2	16
180	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
179	Development of Predictive Techniques for Estimating Liquid Water-Hydrate Equilibrium of Water-Hydrocarbon System. <i>Journal of Thermodynamics</i> , <b>2009</b> , 2009, 1-12		16
178	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
177	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
176	Absorption of CO <sub>2</sub> -rich gaseous mixtures in ionic liquids: A computational study. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 133, 455-465	4.2	16

175	Chemical structural models for prediction of heat capacities of ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 232, 113-122	6	15
174	Generalized models for predicting the critical properties of pure chemical compounds. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 240, 777-793	6	15
173	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
172	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
171	Rigorous modeling of permeability impairment due to inorganic scale deposition in porous media. <i>Journal of Petroleum Science and Engineering</i> , <b>2015</b> , 130, 26-36	4.4	15
170	Hydrate phase equilibria for CO <sub>2</sub> , CH <sub>4</sub> , or N <sub>2</sub> in tetrabutylphosphonium bromide (TBPB) aqueous solution. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 411, 88-92	2.5	15
169	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
168	Experimental Measurements and Thermodynamic Modeling of Clathrate Hydrate Dissociation Conditions for Refrigerants R116, R23, and Their Mixture R508B. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 3907-3911	2.8	15
167	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
166	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
165	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
164	Equilibrium Data of Neohexane + Hydrogen Sulfide and Neohexane + Methane Clathrate Hydrates. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 5094-5097	2.8	15
163	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
162	GA-RBF model for prediction of dew point pressure in gas condensate reservoirs. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 979-986	6	15
161	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
160	Clathrate hydrate formation in (methane, carbon dioxide or nitrogen + tetrahydropyran or furan + water) system: Thermodynamic and kinetic study. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 92, 168-174	2.9	14
159	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
158	Ionic conduction and crystal structure of aluminum doped NASICON-type LiGe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> glass-ceramic crystallized at different times and temperatures. <i>Journal of Electroceramics</i> , <b>2018</b> , 40, 180-189	1.5	14

157	Grand canonical Monte Carlo and molecular dynamics simulations of the structural properties, diffusion and adsorption of hydrogen molecules through poly(benzimidazoles)/nanoparticle oxides composites. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2803-2816	6.7	14
156	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
155	Equilibrium Data of Methyl Cyclohexane + Hydrogen Sulfide and Methyl Cyclohexane + Methane Clathrate Hydrates. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 566-569	2.8	14
154	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
153	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
152	On the prediction of interfacial tension (IFT) for water-hydrocarbon gas system. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 976-990	6	14
151	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
150	Experimental Study and Thermodynamic Modeling of Methane Hydrate Dissociation Conditions in the Simultaneous Presence of BMIM-BF <sub>4</sub> and Ethanol in Aqueous Solution. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 1724-1732	2.8	13
149	Kinetic study of hydrate formation for argon + TBAB + SDS aqueous solution system. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 116, 121-129	2.9	13
148	Experimental Clathrate Hydrate Dissociation Data for Systems Comprising Refrigerant + CaCl <sub>2</sub> Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 827-836	2.8	13
147	Experimental Measurement and Thermodynamic Modeling of Hydrate Dissociation Conditions for the Argon + TBAB + Water System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 3900-3906	2.8	13
146	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
145	Phase equilibria of hydrogen sulphide clathrate hydrates in the presence of single or mixed salt aqueous solution. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 53, 82-85	2.9	13
144	Experimental Data Assessment Test for Composition of Vapor Phase in Equilibrium with Gas Hydrate and Liquid Water for Carbon Dioxide + Methane or Nitrogen + Water System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 3819-3825	3.9	13
143	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
142	On the estimation of viscosities of Newtonian nanofluids. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 241, 1079-1090		12
141	Glycol Loss in a Gaseous System: Thermodynamic Assessment Test of Experimental Solubility Data. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4012-4016	2.8	12
140	Can Toluene or Xylene Form Clathrate Hydrates?. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 5916-5918	3.9	12

139	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
138	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
137	Effect of EMIM-BF <sub>4</sub> Ionic Liquid on Dissociation Temperature of Methane Hydrate in the Presence of PVCap: Experimental and Modeling Studies. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 50-57	4.1	12
136	Multiphase flow modeling of asphaltene precipitation and deposition. <i>Oil and Gas Science and Technology</i> , <b>2018</b> , 73, 51	1.9	12
135	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>2017</b> , 241, 646-653	6	11
134	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
133	Clathrate hydrate dissociation conditions of refrigerants R404A, R406A, R408A and R427A: Experimental measurements and thermodynamic modeling. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 90, 193-198	2.9	11
132	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
131	Molecular dynamics and Monte Carlo simulation of the structural properties, diffusion and adsorption of poly (amide-6-b-ethylene oxide)/Faujasite mixed matrix membranes. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 404-415	6	11
130	Phase stability conditions of carbon dioxide and methane clathrate hydrates in the presence of KBr, CaBr <sub>2</sub> , MgCl <sub>2</sub> , HCOONa, and HCOOK aqueous solutions: Experimental measurements and thermodynamic modelling. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 115, 307-317	2.9	11
129	Modeling liquid-liquid and vapor-liquid equilibria for the hydrocarbon+N-formylmorpholine system using the CPA equation of state. <i>Chemical Engineering Science</i> , <b>2013</b> , 98, 152-159	4.4	11
128	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
127	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
126	Experimental study and numerical modeling for enhancing oil recovery from carbonate reservoirs by nanoparticle flooding. <i>Oil and Gas Science and Technology</i> , <b>2019</b> , 74, 5	1.9	11
125	Experimental study and thermodynamic modeling of the stability conditions of methane clathrate hydrate in the presence of TEACl and/or BMIM-BF <sub>4</sub> in aqueous solution. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 130, 95-103	2.9	11
124	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
123	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
122	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

121	Effect of Various Isolated Microbial Consortiums on the Biodegradation Process of Precipitated Asphaltenes from Crude Oil. <i>ACS Omega</i> , <b>2020</b> , 5, 3131-3143	3.9	10
120	Analyzing the experimental data of CO <sub>2</sub> equilibrium absorption in the aqueous solution of DEA + MDEA with Random Forest and Leverage method. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 63, 329-337	4.2	10
119	On the determination of crude oil salt content: Application of robust modeling approaches. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2015</b> , 55, 27-35	5.3	10
118	Phase Equilibria of Clathrate Hydrates of Ethyne + Propene. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 217-221	2.8	10
117	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
116	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
115	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
114	Efficient modeling of drug solubility in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 133, 466-478	4.2	10
113	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
112	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
111	Modeling the permeability of heterogeneous oil reservoirs using a robust method. <i>Geosciences Journal</i> , <b>2016</b> , 20, 259-271	1.4	9
110	Experimental study and thermodynamic modelling of methane clathrate hydrate dissociation conditions in silica gel porous media in the presence of methanol aqueous solution. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 49, 7-13	2.9	9
109	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
108	Experimental measurement and thermodynamic modelling of hydrate phase equilibrium conditions for krypton + n -butyl ammonium bromide aqueous solution. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 676-681	4.2	8
107	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
106	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
105	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
104	Experimental Measurements and Thermodynamic Modeling of Hydrate Dissociation Conditions for the Xenon + TBAB + Water System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 1324-1330	2.8	8



103	Phase equilibria of clathrate hydrates in CO <sub>2</sub> /CH <sub>4</sub> + (1-propanol/2-propanol) + water systems: Experimental measurements and thermodynamic modeling. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 118, 58-66	2.9	8
102	On the estimation of CO <sub>2</sub> -brine interfacial tension. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 243, 265-272	6	8
101	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
100	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
99	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
98	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
97	Thermodynamic modelling of scale (Calcite, Barite, Anhydrite and Gypsum) deposition from brine. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 230, 96-103	6	7
96	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
95	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
94	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
93	Clathrate hydrate dissociation conditions for refrigerant-R134a/sucrose aqueous solution: Experimental measurement and thermodynamic modelling. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 413, 99-109	2.5	7
92	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
91	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
90	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
89	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
88	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
87	Coupled Thermo-Poro-Elastic modeling of near wellbore zone with stress dependent porous material properties. <i>Journal of Natural Gas Science and Engineering</i> , <b>2018</b> , 52, 559-574	4.6	6
86	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

85	Phase Equilibria of Clathrate Hydrates in (Methane + Cyclooctane + Water), (Methane + 3,3-Dimethyl-1-butene + Water), (Methane + 2-Pentanone + Water), or (Methane + 3-Pentanone + Water) Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 3179-3182	2.8	6
84	Corresponding States Method for Estimation of Upper Flammability Limit Temperature of Chemical Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6265-6269	3.9	6
83	Assessment test for glycol loss in gaseous system. <i>Fuel Processing Technology</i> , <b>2013</b> , 115, 254-260	7.2	6
82	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
81	Phase stability conditions of clathrate hydrates for methane + aqueous solution of water soluble organic promoter system: Modeling using a thermodynamic framework. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 1117-1123	6	6
80	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
79	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
78	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
77	Preliminary evaluation of a natural surfactant extracted from Myrtus communis plant for enhancing oil recovery from carbonate oil reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 1	2.2	5
76	Double-Chain Single-Head modification of extracted saponin from Anabasis Setifera 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
75	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
74	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
73	Molecular descriptors-based models for estimating net heat of combustion of chemical compounds. <i>Energy</i> , <b>2021</b> , 217, 119292	7.9	5
72	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
71	Thermodynamic Model for Prediction of Phase Equilibria of Clathrate Hydrates in the Presence of Water-Insoluble Organic Compounds. <i>Chemical Engineering Communications</i> , <b>2015</b> , 202, 806-814	2.2	4
70	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
69	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
68	Viscosity estimation of Athabasca bitumen in solvent injection process using genetic programming strategy. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2018</b> , 40, 922-928	1.6	4

67	A thermodynamic framework for modeling semiclathrate hydrate phase stability conditions in gas-tetra-n-butyl ammonium halide aqueous solution system. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2018</b> , 13, e2199	1.3	4
66	Prediction of moisture content of natural gases using a GA-RBF model. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 223, 994-999	6	4
65	On the determination of breakthrough time for water coning phenomenon in oil reservoirs. <i>Petroleum Science and Technology</i> , <b>2016</b> , 34, 44-49	1.4	4
64	Phase stability conditions of clathrate hydrates in the (methane + 3-methyl-1-butanol + water), (methane + 3,3-dimethyl-2-butanone + water) and (methane + 2,3-dimethyl-2-butene + water) systems: Experimental measurements and thermodynamic modeling. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 107, 14-20	2.9	4
63	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
62	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
61	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>2013</b> , 58, 2695-2695	2.8	4
60	Phase equilibria of neohexane/methyl cyclopentane+nitrogen clathrate hydrates. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 348, 79-82	2.5	4
59	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
58	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
57	Thermodynamic stability conditions for semi-clathrate hydrates of CO <sub>2</sub> , CH <sub>4</sub> , or N <sub>2</sub> with tetrabutyl ammonium nitrate (TBANO <sub>3</sub> ) aqueous solution. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 96, 52-56	2.9	4
56	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
55	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
54	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
53	Radial basis function (RBF) network for modeling gasoline properties. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 1306-1313	1.4	3
52	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
51	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
50	Development of Reliable Models for Determination of Required Monoethanolamine (MEA) Circulation Rate in Amine Plants. <i>Separation Science and Technology</i> , <b>2015</b> , 150527095459001	2.5	3

49	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
48	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
47	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
46	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
45	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
44	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
43	Experimental measurement of carbon dioxide solubility in 1-methylpyrrolidin-2-one (NMP) + 1-butyl-3-methyl-1H-imidazol-3-ium tetrafluoroborate ([bmim][BF <sub>4</sub> ]) mixtures using a new static-synthetic cell. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 477, 62-77	2.5	3
42	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
41	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
40	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
39	Simulation and energy optimization of the stabilizer tower of a pyrolysis gasoline hydrogenation unit. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2018</b> , 40, 1714-1720	1.6	2
38	Rigorous modeling of gypsum solubility in NaCl+MgBr <sub>2</sub> +H <sub>2</sub> O system at elevated temperatures. <i>Neural Computing and Applications</i> , <b>2014</b> , 25, 955-965	4.8	2
37	Experimental Measurements and Correlations of Excess Molar Enthalpies for the Binary and Ternary Mixtures of (Cyclohexane, 1,4-Dioxane and Piperidine) or (Cyclohexane, Morpholine and Piperidine) at 308.15 K and Atmospheric Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 1629-1635	2.8	2
36	Are the reservoir fluid compositional grading data reliable?. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 363, 27-31	2.5	2
35	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
34	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
33	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
32	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

31	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
30	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
29	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
28	Regional tectonic state and poro-thermo-elasticity analysis of near wellbore zone in field development plan: Utilization of an uncoupled approach. <i>Journal of Natural Gas Science and Engineering</i> , <b>2017</b> , 46, 615-636	4.6	1
27	Reply to Comment on Group Contribution-Based Method for Determination of Solubility Parameter of Nonelectrolyte Organic Compounds and Solubility Parameters of Nonelectrolyte Organic Compounds: Determination Using Quantitative Structure-Property Relationship Strategy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3949-3949	3.9	1
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	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

13	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
12	Data-driven modeling for determination of asphaltene stability condition in oil system. <i>Petroleum Science and Technology</i> , <b>2018</b> , 36, 726-731	1.4	0
11	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
10	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
9	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
8	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
7	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
6	Estimating flashpoints of fuels and chemical compounds using hybrid machine-learning techniques. <i>Fuel</i> , <b>2022</b> , 323, 124292	7.1	0
5	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	
4	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	
3	Simulation and energy integration of distillation tower of a naphtha treatment unit. <i>Oil and Gas Science and Technology</i> , <b>2018</b> , 73, 61	1.9	
2	Can 2-methyl-2-butene and isoprene form clathrate hydrates?. <i>Petroleum Science and Technology</i> , <b>2018</b> , 36, 1696-1702	1.4	
1	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	