

Vahid Taghikhani

List of Publications by Year in descending order

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62
papers

2,185
citations

218592

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62
all docs

62
docs citations

62
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Heavy Oil Recovery in Sandstone Cores Using TiO ₂ Nanofluids. Energy & Fuels, 2014, 28, 423-430.	2.5	234
2	Solubility of CO ₂ , H ₂ S, and Their Mixture in the Ionic Liquid 1-Octyl-3-methylimidazolium Bis(trifluoromethyl)sulfonylimide. Journal of Physical Chemistry B, 2012, 116, 2758-2774.	1.2	188
3	Enhanced Heavy Oil Recovery Using TiO ₂ Nanoparticles: Investigation of Deposition during Transport in Core Plug. Energy & Fuels, 2015, 29, 1-8.	2.5	133
4	Study of the solubility of CO ₂ , H ₂ S and their mixture in the ionic liquid 1-octyl-3-methylimidazolium hexafluorophosphate: Experimental and modelling. Journal of Chemical Thermodynamics, 2013, 65, 220-232.	1.0	123
5	Solubility of H ₂ S in 1-(2-hydroxyethyl)-3-methylimidazolium ionic liquids with different anions. Fluid Phase Equilibria, 2010, 298, 303-309.	1.4	116
6	Solubility of H ₂ S in Ionic Liquids 1-Ethyl-3-methylimidazolium Hexafluorophosphate ([emim][PF ₆]) and 1-Ethyl-3-methylimidazolium Bis(trifluoromethyl)sulfonylimide ([emim][Tf ₂ N]). Journal of Chemical & Engineering Data, 2010, 55, 5839-5845.	1.0	114
7	Solubility of CO ₂ in 1-(2-hydroxyethyl)-3-methylimidazolium ionic liquids with different anions. Journal of Chemical Thermodynamics, 2010, 42, 787-791.	1.0	96
8	Investigation on Asphaltene Deposition Mechanisms during CO ₂ Flooding Processes in Porous Media: A Novel Experimental Study and a Modified Model Based on Multilayer Theory for Asphaltene Adsorption. Energy & Fuels, 2012, 26, 5080-5091.	2.5	83
9	Investigation on the Solubility of SO ₂ and CO ₂ in Imidazolium-Based Ionic Liquids Using NPT Monte Carlo Simulation. Journal of Physical Chemistry B, 2011, 115, 13599-13607.	1.2	66
10	Understanding the polydisperse behavior of asphaltenes during precipitation. Fuel, 2014, 117, 206-217.	3.4	54
11	Asphaltene Deposition in Different Depositing Environments: Part 1. Model Oil. Energy & Fuels, 2014, 28, 1617-1628.	2.5	54
12	Asphaltene Deposition under Dynamic Conditions in Porous Media: Theoretical and Experimental Investigation. Energy & Fuels, 2013, 27, 622-639.	2.5	49
13	Asphaltene Deposition in Different Depositing Environments: Part 2. Real Oil. Energy & Fuels, 2014, 28, 3594-3603.	2.5	46
14	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine. Journal of Chemical & Engineering Data, 2011, 56, 4317-4324.	1.0	45
15	Experimental investigation and thermodynamic modeling of asphaltene precipitation. Scientia Iranica, 2011, 18, 1384-1390.	0.3	43
16	New Two-Dimensional Particle-Scale Model To Simulate Asphaltene Deposition in Wellbores and Pipelines. Energy & Fuels, 2018, 32, 2661-2672.	2.5	39
17	Rheological properties and the micromodel investigation of nanosilica gel-reinforced preformed particle gels developed for improved oil recovery. Journal of Petroleum Science and Engineering, 2020, 192, 107258.	2.1	37
18	Precipitated Asphaltene Amount at High-Pressure and High-Temperature Conditions. Energy & Fuels, 2014, 28, 1596-1610.	2.5	35

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19	Thermodynamic properties of aqueous salt containing urea solutions. <i>Fluid Phase Equilibria</i> , 2012, 325, 71-79.	1.4	34
20	A modified scaling equation based on properties of bottom hole live oil for asphaltene precipitation estimation under pressure depletion and gas injection conditions. <i>Fluid Phase Equilibria</i> , 2013, 358, 212-219.	1.4	34
21	Individual anionic activity coefficients in aqueous electrolyte solutions of LiCl and LiBr. <i>Fluid Phase Equilibria</i> , 1999, 166, 67-77.	1.4	33
22	Electrokinetic behavior of asphaltene particles. <i>Fuel</i> , 2016, 178, 234-242.	3.4	32
23	Measurement and correlation of the individual ionic activity coefficients of aqueous electrolyte solutions of KF, NaF and KBr. <i>Canadian Journal of Chemical Engineering</i> , 2000, 78, 175-181.	0.9	31
24	Partitioning of Penicillin G Acylase in Aqueous Two-Phase Systems of Poly(ethylene glycol) 20000 or 35000 and Potassium Dihydrogen Phosphate or Sodium Citrate. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 243-248.	1.0	30
25	Micro-Emulsion Phase Behavior of a Cationic Surfactant at Intermediate Interfacial Tension in Sandstone and Carbonate Rocks. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	1.4	30
26	A new model for predicting activity coefficients in aqueous solutions of amino acids and peptides. <i>Journal of Chemical Thermodynamics</i> , 2003, 35, 101-112.	1.0	27
27	Correlation of Activity Coefficients in Electrolyte Solutions Using a Kelvin Hard Sphere~Mean Spherical Approximation (K-MSA) Model. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 759-766.	1.8	22
28	Minimum miscibility pressure and interfacial tension measurements for N ₂ and CO ₂ gases in contact with W/O emulsions for different temperatures and pressures. <i>Fuel</i> , 2018, 225, 623-631.	3.4	22
29	Measurement and Modeling Process Partitioning of Cephalexin Antibiotic in Aqueous Two-Phase Systems Containing Poly(ethylene glycol) 4000, 10000 and K ₂ HPO ₄ , Na ₃ Citrate. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2239-2244.	1.0	21
30	Modeling of Aqueous Biomolecules Using a New Free-Volume Group Contribution Model. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4109-4118.	1.8	20
31	Effects of Paraffinic Group on Interfacial Tension Behavior of CO ₂ ~Asphaltenic Crude Oil Systems. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2563-2569.	1.0	20
32	Synthesis of a custom-made suspension of preformed particle gel with improved strength properties and its application in the enhancement of oil recovery in a micromodel scale. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109108.	2.1	17
33	In-depth characterization of light, medium and heavy oil asphaltenes as well as asphaltene subfractions. <i>Fuel</i> , 2022, 324, 124525.	3.4	17
34	A modified free-volume-based model for predicting vapor~liquid and solid~liquid equilibria for size asymmetric systems. <i>Fluid Phase Equilibria</i> , 2005, 234, 94-100.	1.4	16
35	Classical and recent free-volume models for polymer solutions: A comparative evaluation. <i>Fluid Phase Equilibria</i> , 2007, 257, 63-69.	1.4	16
36	Experimental Investigation on the Effect of Asphaltene Types on the Interfacial Tension of CO ₂ ~Hydrocarbon Systems. <i>Energy & Fuels</i> , 2015, 29, 7941-7947.	2.5	16

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37	Application of the MSA to the modeling of the activity coefficients of individual ions. Fluid Phase Equilibria, 2000, 167, 161-171.	1.4	14
38	Experimental Investigation of Rheological and Morphological Properties of Water in Crude Oil Emulsions Stabilized by a Lipophilic Surfactant. Journal of Dispersion Science and Technology, 2013, 34, 356-368.	1.3	14
39	Measurement and correlation of vapor-liquid equilibria of the aqueous poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2007, 262, 137-148.	1.4	13
40	A new model based on multilayer kinetic adsorption mechanism for asphaltenes adsorption in porous media during dynamic condition. Fluid Phase Equilibria, 2014, 375, 236-245.	1.4	12
41	Application of the non-primitive MSA-based models in predicting the activity and the osmotic coefficients of aqueous electrolyte solutions. Fluid Phase Equilibria, 2004, 221, 189-196.	1.4	11
42	Measurement and Correlation of Surface Tension for Single Aqueous Electrolyte Solutions. International Journal of Thermophysics, 2010, 31, 852-859.	1.0	11
43	Experimental Study and Mathematical Modeling of Partitioning of Î ² -Amylase and Amyloglucosidase in PEG-Salt Aqueous Two-Phase Systems. Journal of Chemical & Engineering Data, 2010, 55, 4968-4975.	1.0	11
44	Investigation of Oil-Asphaltene Slurry Rheological Behavior. Journal of Dispersion Science and Technology, 2014, 35, 1155-1162.	1.3	10
45	A comprehensive study on CO ₂ solubility in brine: Thermodynamic-based and neural network modeling. Fluid Phase Equilibria, 2015, 403, 153-159.	1.4	9
46	Microscopic Insight into Kinetics of Inorganic Scale Deposition during Smart Water Injection Using Dynamic Quartz Crystal Microbalance and Molecular Dynamics Simulation. Industrial & Engineering Chemistry Research, 2020, 59, 609-619.	1.8	9
47	Applications of the quartz crystal microbalance in energy and environmental sciences: From flow assurance to nanotechnology. Fuel, 2022, 313, 122998.	3.4	9
48	Kinetic Study of Crude Oil Combustion in the Presence of Carbonate Rock. , 2007, , .		7
49	An integrated approach for predicting asphaltenes precipitation and deposition along wellbores. Journal of Petroleum Science and Engineering, 2021, 203, 108486.	2.1	7
50	A Review on Chemical Sand Production Control Techniques in Oil Reservoirs. Energy & Fuels, 2022, 36, 5185-5208.	2.5	7
51	A Modified Local Composition-Based Model for Correlating the Vapor-Liquid and Liquid-Liquid Phase Equilibria of Aqueous Polymer-Salt Systems. Journal of Solution Chemistry, 2008, 37, 665-675.	0.6	6
52	A new multiphase and dynamic asphaltene deposition tool (MAD-ADEPT) to predict the deposition of asphaltene particles on tubing wall. Journal of Petroleum Science and Engineering, 2020, 195, 107553.	2.1	6
53	Modification of the CV-MSA model in obtaining the activity and osmotic coefficients of aqueous electrolyte solutions. Fluid Phase Equilibria, 2006, 240, 167-172.	1.4	5
54	A new model in correlating the activity coefficients of aqueous electrolyte solutions with ion pair formation. Fluid Phase Equilibria, 2007, 261, 313-319.	1.4	5

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55	NUMERICAL ANALYSIS OF HEAT CONDUCTION TREATED WITH HIGHLY CONDUCTIVE COPPER OXIDE NANOPARTICLES IN POROUS MEDIA. <i>Special Topics and Reviews in Porous Media</i> , 2016, 7, 149-160.	0.6	5
56	Application of a new simplified SAFT to VLE study of associating and non-associating fluids. <i>Fluid Phase Equilibria</i> , 2005, 233, 110-121.	1.4	4
57	A modified square well model in obtaining the surface tension of pure and binary mixtures of hydrocarbons. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1131-1135.	1.0	4
58	Measurement and correlation of the saturation concentrations for single and mixed aqueous electrolyte solutions at various temperatures. <i>Desalination</i> , 2010, 258, 187-193.	4.0	4
59	Experimental investigation of simultaneous water and CO ₂ (SWACO ₂) injection for oil recovery in immiscible and near-miscible conditions: A comparative study. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 1791-1797.	0.9	4
60	Experimental study and modelling of saturation molality of NaCl in quaternary aqueous electrolyte solutions at various temperatures. <i>Desalination</i> , 2011, 267, 228-232.	4.0	2
61	A Heuristic Insight on End-Point Calculation and a New Phase Interference Parameter in Two-Phase Relative Permeability Curves for Horizontal Fracture Flow. <i>Transport in Porous Media</i> , 2017, 119, 499-519.	1.2	2
62	Experimental investigation of water alternating CH ₄ -CO ₂ mixture gas injection in light oil reservoirs. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 31.	0.1	1