

Reza Haghbakhsh

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,147
citations

304602

22
h-index

434063

31
g-index

49
all docs

49
docs citations

49
times ranked

851
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A general viscosity model for deep eutectic solvents: The free volume theory coupled with association equations of state. <i>Fluid Phase Equilibria</i> , 2018, 470, 193-202. | 1.4 | 83 |
| 2 | Estimation of H ₂ S solubility in ionic liquids using a rigorous method. <i>Journal of Supercritical Fluids</i> , 2014, 92, 60-69. | 1.6 | 59 |
| 3 | Densities and volumetric properties of (choline chloride+urea) deep eutectic solvent and methanol mixtures in the temperature range of 293.15–323.15 K. <i>Journal of Chemical Thermodynamics</i> , 2018, 124, 10-20. | 1.0 | 59 |
| 4 | A simple group contribution correlation for the prediction of ionic liquid heat capacities at different temperatures. <i>Fluid Phase Equilibria</i> , 2015, 403, 95-103. | 1.4 | 53 |
| 5 | Development of an artificial neural network model for the prediction of hydrocarbon density at high-pressure, high-temperature conditions. <i>Thermochimica Acta</i> , 2013, 551, 124-130. | 1.2 | 46 |
| 6 | A simple model for the viscosities of deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2020, 521, 112662. | 1.4 | 44 |
| 7 | Modeling and optimization of Fischer-Tropsch synthesis in the presence of Co (III)/Al ₂ O ₃ catalyst using artificial neural networks and genetic algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2013, 10, 14-24. | 2.1 | 43 |
| 8 | A simple correlation to predict high pressure solubility of carbon dioxide in 27 commonly used ionic liquids. <i>Journal of Supercritical Fluids</i> , 2013, 77, 158-166. | 1.6 | 42 |
| 9 | Simple and global correlation for the densities of deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2019, 296, 111830. | 2.3 | 42 |
| 10 | The friction theory for modeling the viscosities of deep eutectic solvents using the CPA and PC-SAFT equations of state. <i>Journal of Molecular Liquids</i> , 2018, 249, 554-561. | 2.3 | 40 |
| 11 | Investigation of solutions of ethyl alcohol and the deep eutectic solvent of Reline for their volumetric properties. <i>Fluid Phase Equilibria</i> , 2018, 472, 39-47. | 1.4 | 38 |
| 12 | Modeling the Phase Behavior of Carbon Dioxide Solubility in Deep Eutectic Solvents with the Cubic Plus Association Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 897-906. | 1.0 | 33 |
| 13 | Density estimation of pure carbon dioxide at supercritical region and estimation solubility of solid compounds in supercritical carbon dioxide: Correlation approach based on sensitivity analysis. <i>Fluid Phase Equilibria</i> , 2013, 342, 31-41. | 1.4 | 32 |
| 14 | Viscosities of Pure Ionic Liquids Using Combinations of Free Volume Theory or Friction Theory with the Cubic, the Cubic Plus Association, and the Perturbed-Chain Statistical Associating Fluid Theory Equations of State at High Pressures. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2247-2258. | 1.8 | 30 |
| 15 | A general model for the surface tensions of deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2020, 307, 112972. | 2.3 | 30 |
| 16 | Estimation of the heat capacities of deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2020, 307, 112940. | 2.3 | 29 |
| 17 | Modeling vapor-liquid equilibria of mixtures of SO ₂ and deep eutectic solvents using the CPA-NRTL and CPA-UNIQUAC models. <i>Journal of Molecular Liquids</i> , 2018, 250, 259-268. | 2.3 | 28 |
| 18 | Investigation of thermally double coupled double membrane heat exchanger reactor to produce dimethyl ether and methyl formate. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 32, 185-197. | 2.1 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Deep eutectic solvents for CO ₂ capture from natural gas by energy and exergy analyses. Journal of Environmental Chemical Engineering, 2019, 7, 103411. | 3.3 | 25 |
| 20 | Investigating the performance of novel green solvents in absorption refrigeration cycles: Energy and exergy analyses. International Journal of Refrigeration, 2020, 113, 174-186. | 1.8 | 24 |
| 21 | Group contribution and atomic contribution models for the prediction of various physical properties of deep eutectic solvents. Scientific Reports, 2021, 11, 6684. | 1.6 | 24 |
| 22 | Experimental Investigation of Liquid-Liquid Extraction of Toluene + Heptane or Toluene + Hexane Using Deep Eutectic Solvents. Journal of Chemical & Engineering Data, 2019, 64, 3811-3820. | 1.0 | 23 |
| 23 | Density of Deep Eutectic Solvents: The Path Forward Cheminformatics-Driven Reliable Predictions for Mixtures. Molecules, 2021, 26, 5779. | 1.7 | 23 |
| 24 | High pressure viscosity modeling of pure alcohols based on classical and advanced equations of state. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 57-70. | 2.7 | 22 |
| 25 | Two simple correlations to predict viscosities of pure and aqueous solutions of ionic liquids. Journal of Molecular Liquids, 2015, 211, 948-956. | 2.3 | 20 |
| 26 | A novel correlative approach for ionic liquid thermal conductivities. Journal of Molecular Liquids, 2017, 236, 214-219. | 2.3 | 18 |
| 27 | Experimental investigation on the volumetric properties of mixtures of the deep eutectic solvent of Ethaline and methanol in the temperature range of 283.15 to 323.15 K. Journal of Chemical Thermodynamics, 2020, 147, 106124. | 1.0 | 17 |
| 28 | A study of non-ideal mixtures of ethanol and the (1 choline chloride + 2 ethylene glycol) deep eutectic solvent for their volumetric behaviour. Journal of Chemical Thermodynamics, 2020, 150, 106219. | 1.0 | 15 |
| 29 | Vapor-liquid equilibria of isopropyl alcohol+propylene at high pressures: Experimental measurement and modeling with the CPA EoS. Journal of Supercritical Fluids, 2013, 84, 182-189. | 1.6 | 14 |
| 30 | Generalized Model to Estimate the Refractive Indices of Deep Eutectic Solvents. Journal of Chemical & Engineering Data, 2020, 65, 3965-3976. | 1.0 | 14 |
| 31 | Energy Conservation in Absorption Refrigeration Cycles Using DES as a New Generation of Green Absorbents. Entropy, 2020, 22, 409. | 1.1 | 14 |
| 32 | A novel atomic contribution model for the standard chemical exergies of organic compounds. Fluid Phase Equilibria, 2020, 507, 112397. | 1.4 | 11 |
| 33 | Experimental investigation of carbon dioxide solubility in the deep eutectic solvent (1 ChCl+3 Tj ETQq1 1 0.784314 rgBT /Overlock | 2.3 | 11 |
| 34 | Evaluation of Deep Eutectic Systems as an Alternative to Solvents in Painting Conservation. ACS Sustainable Chemistry and Engineering, 2021, 9, 15451-15460. | 3.2 | 11 |
| 35 | Excess volumes of mixtures consisting of deep eutectic solvents by the Prigogine-Flory-Patterson theory. Journal of Molecular Liquids, 2018, 272, 731-737. | 2.3 | 10 |
| 36 | Viscosity Investigations on the Binary Systems of (1 ChCl:2 Ethylene Glycol) DES and Methanol or Ethanol. Molecules, 2021, 26, 5513. | 1.7 | 10 |

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|----|--|-----|-----------|
| 37 | Derivative Properties from High-Precision Equations of State. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14397-14409. | 1.2 | 9 |
| 38 | Volumetric investigation of aqueous mixtures of the {choline chloride+phenol (1:4)} deep eutectic solvent. <i>Journal of Chemical Thermodynamics</i> , 2021, 158, 106440. | 1.0 | 9 |
| 39 | A Global Model for the Estimation of Speeds of Sound in Deep Eutectic Solvents. <i>Molecules</i> , 2020, 25, 1626. | 1.7 | 8 |
| 40 | Support vector machine and CPA EoS for the prediction of high-pressure liquid densities of normal alkanols. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2888-2898. | 2.7 | 7 |
| 41 | A crossoverUNIQUAC model for critical and noncritical LLE calculations. <i>AIChE Journal</i> , 2015, 61, 3094-3103. | 1.8 | 7 |
| 42 | Investigation of volumetric fluid properties of (heptane+hexadecane) at reservoir conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 377-394. | 2.1 | 7 |
| 43 | Estimation of viscosities of 1-alkyl-3-methylimidazolium ionic liquids over a range of temperatures using a simple correlation. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 401-421. | 0.4 | 7 |
| 44 | Simple estimations of the speed of sound in ionic liquids, with and without any physical property data available. <i>Fluid Phase Equilibria</i> , 2020, 503, 112291. | 1.4 | 7 |
| 45 | A comprehensive experimental and modeling study on CO ₂ solubilities in the deep eutectic solvent based on choline chloride and butane-1,2-diol. <i>Fluid Phase Equilibria</i> , 2022, 561, 113535. | 1.4 | 6 |
| 46 | Solubility of Carbon Dioxide in Secondary Butyl Alcohol at High Pressures: Experimental and Modeling with CPA. <i>Journal of Solution Chemistry</i> , 2015, 44, 1555-1567. | 0.6 | 5 |
| 47 | Aqueous mixture viscosities of phenolic deep eutectic solvents. <i>Fluid Phase Equilibria</i> , 2022, 553, 113290. | 1.4 | 4 |
| 48 | Deep Eutectic Solvents as Phase Change Materials in Solar Thermal Power Plants: Energy and Exergy Analyses. <i>Molecules</i> , 2022, 27, 1427. | 1.7 | 4 |
| 49 | New models for the binary interaction parameters of nitrogen-alkanes mixtures based on the cubic equations of state. <i>Chemical Engineering Communications</i> , 2018, 205, 914-928. | 1.5 | 3 |