Reza Haghbakhsh

List of Publications by Year
in descending order

49 papers	1,147 citations	304368 22 h-index	433756 31 g-index
49 all docs	49 docs citations	49 times ranked	851 citing authors

#	Article	IF	Citations
1	Aqueous mixture viscosities of phenolic deep eutectic solvents. Fluid Phase Equilibria, 2022, 553, 113290.	1.4	4
2	Deep Eutectic Solvents as Phase Change Materials in Solar Thermal Power Plants: Energy and Exergy Analyses. Molecules, 2022, 27, 1427.	1.7	4
3	A comprehensive experimental and modeling study on CO2 solubilities in the deep eutectic solvent based on choline chloride and butane-1,2-diol. Fluid Phase Equilibria, 2022, 561, 113535.	1.4	6
4	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
5	Experimental investigation of carbon dioxide solubility in the deep eutectic solvent (1 ChClÂ+Â3) Tj ETQq1 1 0.784314 rgBT /Overloc	2.3	11
6	Volumetric investigation of aqueous mixtures of the {choline chlorideÂ+Âphenol (1:4)} deep eutectic solvent. Journal of Chemical Thermodynamics, 2021, 158, 106440.	1.0	9
7	Viscosity Investigations on the Binary Systems of (1 ChCl:2 Ethylene Glycol) DES and Methanol or Ethanol. Molecules, 2021, 26, 5513.	1.7	10
8	Density of Deep Eutectic Solvents: The Path Forward Cheminformatics-Driven Reliable Predictions for Mixtures. Molecules, 2021, 26, 5779.	1.7	23
9	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
10	Simple estimations of the speed of sound in ionic liquids, with and without any physical property data available. Fluid Phase Equilibria, 2020, 503, 112291.	1.4	7
11	A novel atomic contribution model for the standard chemical exergies of organic compounds. Fluid Phase Equilibria, 2020, 507, 112397.	1.4	11
12	A simple model for the viscosities of deep eutectic solvents. Fluid Phase Equilibria, 2020, 521, 112662.	1.4	44
13	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
14	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 323.15â€¯K. Journal of Chemical Thermodynamics, 2020, 147, 106124.	1.0	17
15	A general model for the surface tensions of deep eutectic solvents. Journal of Molecular Liquids, 2020, 307, 112972.	2.3	30
16	Generalized Model to Estimate the Refractive Indices of Deep Eutectic Solvents. Journal of Chemical & Engineering Data, 2020, 65, 3965-3976.	1.0	14
17	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
18	Energy Conservation in Absorption Refrigeration Cycles Using DES as a New Generation of Green Absorbents. Entropy, 2020, 22, 409.	1.1	14

#	Article	IF	Citations
19	A Global Model for the Estimation of Speeds of Sound in Deep Eutectic Solvents. Molecules, 2020, 25, 1626.	1.7	8
20	Estimation of the heat capacities of deep eutectic solvents. Journal of Molecular Liquids, 2020, 307, 112940.	2.3	29
21	Estimation of viscosities of 1-alkyl-3-methylimidazolium ionic liquids over a range of temperatures using a simple correlation. Physics and Chemistry of Liquids, 2019, 57, 401-421.	0.4	7
22	Experimental Investigation of Liquidâ€“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	Simple and global correlation for the densities of deep eutectic solvents. Journal of Molecular Liquids, 2019, 296, 111830.	2.3	42
24	Deep eutectic solvents for CO2 capture from natural gas by energy and exergy analyses. Journal of Environmental Chemical Engineering, 2019, 7, 103411.	3.3	25
25	Densities and volumetric properties of (choline chlorideâ€¯+â€¯urea) deep eutectic solvent and methanol mixtures in the temperature range of 293.15â€“323.15â€¯K. Journal of Chemical Thermodynamics, 2018, 124, 10-20.	1.0	59
26	New models for the binary interaction parameters of nitrogenâ€“alkanes mixtures based on the cubic equations of state. Chemical Engineering Communications, 2018, 205, 914-928.	1.5	3
27	Modeling the Phase Behavior of Carbon Dioxide Solubility in Deep Eutectic Solvents with the Cubic Plus Association Equation of State. Journal of Chemical & Engineering Data, 2018, 63, 897-906.	1.0	33
28	A general viscosity model for deep eutectic solvents: The free volume theory coupled with association equations of state. Fluid Phase Equilibria, 2018, 470, 193-202.	1.4	83
29	Modeling vapor-liquid equilibria of mixtures of SO2 and deep eutectic solvents using the CPA-NRTL and CPA-UNIQUAC models. Journal of Molecular Liquids, 2018, 250, 259-268.	2.3	28
30	The friction theory for modeling the viscosities of deep eutectic solvents using the CPA and PC-SAFT equations of state. Journal of Molecular Liquids, 2018, 249, 554-561.	2.3	40
31	Excess volumes of mixtures consisting of deep eutectic solvents by the Prigogineâ€“Floryâ€“Patterson theory. Journal of Molecular Liquids, 2018, 272, 731-737.	2.3	10
32	Investigation of solutions of ethyl alcohol and the deep eutectic solvent of Reline for their volumetric properties. Fluid Phase Equilibria, 2018, 472, 39-47.	1.4	38
33	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. Industrial & Engineering Chemistry Research, 2017, 56, 2247-2258.	1.8	30
34	A novel correlative approach for ionic liquid thermal conductivities. Journal of Molecular Liquids, 2017, 236, 214-219.	2.3	18
35	Investigation of thermally double coupled double membrane heat exchanger reactor to produce dimethyl ether and methyl formate. Journal of Natural Gas Science and Engineering, 2016, 32, 185-197.	2.1	27
36	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

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37	Solubility of Carbon Dioxide in Secondary Butyl Alcohol at High Pressures: Experimental and Modeling with CPA. Journal of Solution Chemistry, 2015, 44, 1555-1567.	0.6	5
38	A simple group contribution correlation for the prediction of ionic liquid heat capacities at different temperatures. Fluid Phase Equilibria, 2015, 403, 95-103.	1.4	53
39	A crossoverâ€UNIQUAC model for critical and noncritical LLE calculations. AICHE Journal, 2015, 61, 3094-3103.	1.8	7
40	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
41	Investigation of volumetric fluid properties of (heptaneÂ+Âhexadecane) at reservoir conditions. Journal of Natural Gas Science and Engineering, 2015, 22, 377-394.	2.1	7
42	Derivative Properties from High-Precision Equations of State. Journal of Physical Chemistry B, 2014, 118, 14397-14409.	1.2	9
43	Support vector machine and CPA EoS for the prediction of high-pressure liquid densities of normal alkanols. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2888-2898.	2.7	7
44	Estimation of H2S solubility in ionic liquids using a rigorous method. Journal of Supercritical Fluids, 2014, 92, 60-69.	1.6	59
45	Vaporâ€“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
46	Modeling and optimization of Fischerâ€“Tropsch synthesis in the presence of Co (III)/Al2O3 catalyst using artificial neural networks and genetic algorithm. Journal of Natural Gas Science and Engineering, 2013, 10, 14-24.	2.1	43
47	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. Fluid Phase Equilibria, 2013, 342, 31-41.	1.4	32
48	A simple correlation to predict high pressure solubility of carbon dioxide in 27 commonly used ionic liquids. Journal of Supercritical Fluids, 2013, 77, 158-166.	1.6	42
49	Development of an artificial neural network model for the prediction of hydrocarbon density at high-pressure, high-temperature conditions. Thermochimica Acta, 2013, 551, 124-130.	1.2	46