

Amir Hossein Jalili

List of Publications by Year in descending order

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48
papers

2,103
citations

361045

20
h-index

223531

46
g-index

49
all docs

49
docs citations

49
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	Solubility of H ₂ S in Ionic Liquids [bmim][PF ₆], [bmim][BF ₄], and [bmim][Tf ₂ N]. Journal of Chemical & Engineering Data, 2009, 54, 1844-1849.	1.0	210
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	Solubility and Diffusion of H ₂ S and CO ₂ in the Ionic Liquid 1-(2-Hydroxyethyl)-3-methylimidazolium Tetrafluoroborate. Journal of Chemical & Engineering Data, 2010, 55, 1663-1668.	1.0	187
4	Solubility and diffusion of CO ₂ and H ₂ S in the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. Journal of Chemical Thermodynamics, 2010, 42, 1298-1303.	1.0	176
5	Solubility of H ₂ S in ionic liquids [hmim][PF ₆], [hmim][BF ₄], and [hmim][Tf ₂ N]. Journal of Chemical Thermodynamics, 2009, 41, 1052-1055.	1.0	149
6	Solubility of CO ₂ and H ₂ S in the ionic liquid 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate. Journal of Chemical Thermodynamics, 2013, 67, 55-62.	1.0	123
7	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
8	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
9	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
10	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
11	Measuring the solubility of CO ₂ and H ₂ S in sulfolane and the density and viscosity of saturated liquid binary mixtures of (sulfolane + CO ₂) and (sulfolane + H ₂ S). Journal of Chemical Thermodynamics, 2015, 85, 13-25.	1.0	69
12	Solubility of CO ₂ and H ₂ S in the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethanesulfonate. Journal of Natural Gas Science and Engineering, 2016, 30, 583-591.	2.1	62
13	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
14	Conversion of methane to methanol in an ac dielectric barrier discharge. Plasma Sources Science and Technology, 2004, 13, 707-711.	1.3	39
15	Solubility of carbon dioxide and hydrogen sulfide in the ionic liquid 1-butyl-3-methylimidazolium trifluoromethanesulfonate. Fluid Phase Equilibria, 2017, 453, 1-12.	1.4	39
16	Experimental investigation of the density and viscosity of CO ₂ -loaded aqueous alkanolamine solutions. Fluid Phase Equilibria, 2015, 404, 96-108.	1.4	37
17	Measuring and modelling the absorption and volumetric properties of CO ₂ and H ₂ S in the ionic liquid 1-ethyl-3-methylimidazolium tetrafluoroborate. Journal of Chemical Thermodynamics, 2019, 131, 544-556.	1.0	37
18	DC-Pulsed Plasma for Dry Reforming of Methane to Synthesis Gas. Plasma Chemistry and Plasma Processing, 2010, 30, 333-347.	1.1	35

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19	Solubility of Hydrogen Sulfide in <i>N</i> -Methylacetamide and <i>N,N</i> -Dimethylacetamide: Experimental Measurement and Modeling. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 499-508.	1.0	28
20	Heat capacity, thermal conductivity and thermal diffusivity of aqueous sulfolane solutions. <i>Thermochimica Acta</i> , 2013, 560, 63-70.	1.2	27
21	Solubility of H ₂ S in Aqueous Diisopropanolamine + Piperazine Solutions: New Experimental Data and Modeling with the Electrolyte Cubic Square-Well Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2625-2631.	1.0	20
22	Thermo-physical properties of aqueous solutions of <i>N,N</i> -dimethylformamide. <i>Journal of Molecular Liquids</i> , 2013, 186, 142-146.	2.3	17
23	Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane solution. <i>Journal of Chemical Thermodynamics</i> , 2017, 106, 232-242.	1.0	16
24	Carbon dioxide solubility in aqueous sulfolane solution. <i>Journal of Chemical Thermodynamics</i> , 2019, 132, 62-72.	1.0	14
25	Measuring the density and viscosity of H ₂ S-loaded aqueous methyldiethanolamine solution. <i>Journal of Chemical Thermodynamics</i> , 2016, 102, 228-236.	1.0	13
26	Solubility behavior of CO ₂ and H ₂ S in 1-benzyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2022, 167, 106721.	1.0	11
27	Calculation of Transport Coefficients for CH ₄ and N ₂ and CH ₄ and O ₂ by the Inversion Method. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 1191-1196.	0.7	10
28	Experimental Study of Density, Viscosity and Equilibrium Carbon Dioxide Solubility in Some Aqueous Alkanolamine Solutions. <i>Journal of Solution Chemistry</i> , 2019, 48, 489-501.	0.6	10
29	Experimental diffusion coefficients of CO ₂ and H ₂ S in some ionic liquids using semi-infinite volume method. <i>Journal of Chemical Thermodynamics</i> , 2019, 133, 300-311.	1.0	10
30	Isobaric Vapor-Liquid Equilibria of Hexane + 1-Decene and Octane + 1-Decene Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 398-402.	1.0	7
31	Interaction potential and gaseous ion mobility of CO ₂ ions in He. <i>Molecular Physics</i> , 2013, 111, 909-921.	0.8	7
32	Experimental Study of Carbon Dioxide Solubility in Aqueous <i>N</i> -Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2135-2150.	1.0	7
33	Carbon dioxide solubility in aqueous <i>N</i> -Methylpyrrolidone solution. <i>Fluid Phase Equilibria</i> , 2021, 546, 113122.	1.4	7
34	Anomalously high solubility behavior of methanethiol in alkylimidazolium-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2022, 350, 118529.	2.3	6
35	Transport Properties and Effective Intermolecular Potentials for O ₂ , N ₂ , and O ₂ -N ₂ . <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 1297-1303.	2.0	5
36	Determination of and interaction potentials from gaseous ion mobility data. <i>Molecular Physics</i> , 2010, 108, 35-40.	0.8	5

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37	Diffusivity and solubility of carbonyl sulfide and sulfur dioxide in 1-ethyl-3-methylimidazolium bis (trifluoromethyl) sulfonylimide ([emim][Tf2N]): Experimental measurement and modelling. Journal of Chemical Thermodynamics, 2019, 132, 411-422.	1.0	5
38	Measuring and modeling equilibrium solubility of carbon dioxide in aqueous solution of dimethylaminoethanol and 3-methylaminopropylamine. Thermochemica Acta, 2020, 686, 178565.	1.2	5
39	Determination of HeO ⁺ and HeO ⁺ interaction potentials from gaseous ion-mobility data. Chemical Physics, 2009, 365, 94-99.	0.9	4
40	A comparative experimental and molecular simulation study on the mechanical and morphological behaviors of adamantane-based polypropylene composites. Computational Materials Science, 2015, 109, 341-349.	1.4	4
41	Vapor-Liquid Equilibria of H ₂ S in Aqueous Mixtures of N-Methyldiethanolamine + Piperazine + Sulfolane. Journal of Chemical & Engineering Data, 2021, 66, 3979-3999.	1.0	3
42	Measuring and correlating solubility of hydrogen sulfide in aqueous solution of 2-(2-ethyl-5-hydroxy-2-thiazolidinone) (amir)	1.0	2
43	Hydrogen Sulfide Solubility in Aqueous N-Methylpyrrolidone Solution. Journal of Chemical & Engineering Data, 2021, 66, 1900-1913.	1.0	2
44	Molecular-Dynamics Simulation of a Methane-Oxygen Mixture: Prediction of PVT Data and Evaluation of Effective Pair Potential Models. Bulletin of the Chemical Society of Japan, 2005, 78, 2105-2113.	2.0	1
45	Determination of the Maximal Lyapunov Exponent through the Effective Potential Energy: Exact Phase Transition Temperature of Few Particle System CF ₄ . Journal of the Physical Society of Japan, 2009, 78, 124003.	0.7	1
46	Potential energy function for HeS ⁺ and transport properties of S ⁺ in He. Chemical Physics Letters, 2013, 584, 49-52.	1.2	1
47	Transport Properties of Non-Spherical Gases. Bulletin of the Chemical Society of Japan, 2007, 80, 699-706.	2.0	0
48	A Simple Mixing Rule for the Deiters Equation of State: Prediction of Interaction Second Virial Coefficients and PVT _x Properties of Binary Mixtures. Journal of Chemical Engineering of Japan, 2007, 40, 203-212.	0.3	0