

# 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 behavior of CO <sub>2</sub> and H <sub>2</sub> S in 1-benzyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid. Journal of Chemical Thermodynamics, 2022, 167, 106721.	1.0	11
2	Anomalously high solubility behavior of methanethiol in alkylimidazolium-based ionic liquids. Journal of Molecular Liquids, 2022, 350, 118529.	2.3	6
3	Hydrogen Sulfide Solubility in Aqueous N-Methylpyrrolidone Solution. Journal of Chemical & Engineering Data, 2021, 66, 1900-1913.	1.0	2
4	Vapor-Liquid Equilibria of H <sub>2</sub> S in Aqueous Mixtures of N-Methyldiethanolamine + Piperazine + Sulfolane. Journal of Chemical & Engineering Data, 2021, 66, 3979-3999.	1.0	3
5	Carbon dioxide solubility in aqueous N-Methylpyrrolidone solution. Fluid Phase Equilibria, 2021, 546, 113122.	1.4	7
6	Measuring and modeling equilibrium solubility of carbon dioxide in aqueous solution of dimethylaminoethanol and 3-methylaminopropylamine. Thermochemica Acta, 2020, 686, 178565.	1.2	5
7	Diffusivity and solubility of carbonyl sulfide and sulfur dioxide in 1-ethyl-3-methylimidazolium bis(trifluoromethyl) sulfonylimide ([emim][Tf <sub>2</sub> N]): Experimental measurement and modelling. Journal of Chemical Thermodynamics, 2019, 132, 411-422.	1.0	5
8	Experimental Study of Density, Viscosity and Equilibrium Carbon Dioxide Solubility in Some Aqueous Alkanolamine Solutions. Journal of Solution Chemistry, 2019, 48, 489-501.	0.6	10
9	Experimental diffusion coefficients of CO <sub>2</sub> and H <sub>2</sub> S in some ionic liquids using semi-infinite volume method. Journal of Chemical Thermodynamics, 2019, 133, 300-311.	1.0	10
10	Carbon dioxide solubility in aqueous sulfolane solution. Journal of Chemical Thermodynamics, 2019, 132, 62-72.	1.0	14
11	Measuring and modelling the absorption and volumetric properties of CO <sub>2</sub> and H <sub>2</sub> S in the ionic liquid 1-ethyl-3-methylimidazolium tetrafluoroborate. Journal of Chemical Thermodynamics, 2019, 131, 544-556.	1.0	37
12	Measuring and correlating solubility of hydrogen sulfide in aqueous solution of 2-(2-ethyl-5-(2,2,2-trifluoroethyl)oxyethyl)imidazolium tetrafluoroborate. Journal of Chemical Thermodynamics, 2019, 133, 312-322.	1.0	2
13	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid. Journal of Chemical & Engineering Data, 2018, 63, 2135-2150.	1.0	7
14	Experimental investigation of hydrogen sulfide solubility in aqueous sulfolane solution. Journal of Chemical Thermodynamics, 2017, 106, 232-242.	1.0	16
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	Measuring the density and viscosity of H <sub>2</sub> S-loaded aqueous methyldiethanolamine solution. Journal of Chemical Thermodynamics, 2016, 102, 228-236.	1.0	13
17	Solubility of CO <sub>2</sub> and H <sub>2</sub> S in the ionic liquid 1-ethyl-3-methylimidazolium trifluoromethanesulfonate. Journal of Natural Gas Science and Engineering, 2016, 30, 583-591.	2.1	62
18	Solubility of Hydrogen Sulfide in N-Methylacetamide and N,N-Dimethylacetamide: Experimental Measurement and Modeling. Journal of Chemical & Engineering Data, 2015, 60, 499-508.	1.0	28

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19	Measuring the solubility of CO <sub>2</sub> and H <sub>2</sub> S in sulfolane and the density and viscosity of saturated liquid binary mixtures of (sulfolane + CO <sub>2</sub> ) and (sulfolane + H <sub>2</sub> S). <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 13-25.	1.0	69
20	A comparative experimental and molecular simulation study on the mechanical and morphological behaviors of adamantane-based polypropylene composites. <i>Computational Materials Science</i> , 2015, 109, 341-349.	1.4	4
21	Experimental investigation of the density and viscosity of CO <sub>2</sub> -loaded aqueous alkanolamine solutions. <i>Fluid Phase Equilibria</i> , 2015, 404, 96-108.	1.4	37
22	Solubility of CO <sub>2</sub> and H <sub>2</sub> S in the ionic liquid 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate. <i>Journal of Chemical Thermodynamics</i> , 2013, 67, 55-62.	1.0	123
23	Thermo-physical properties of aqueous solutions of N,N-dimethylformamide. <i>Journal of Molecular Liquids</i> , 2013, 186, 142-146.	2.3	17
24	Potential energy function for HeS <sup>+</sup> and transport properties of S <sup>+</sup> in He. <i>Chemical Physics Letters</i> , 2013, 584, 49-52.	1.2	1
25	Interaction potential and gaseous ion mobility of CO <sup>+</sup> ions in He. <i>Molecular Physics</i> , 2013, 111, 909-921.	0.8	7
26	Heat capacity, thermal conductivity and thermal diffusivity of aqueous sulfolane solutions. <i>Thermochimica Acta</i> , 2013, 560, 63-70.	1.2	27
27	Study of the solubility of CO <sub>2</sub> , H <sub>2</sub> S and their mixture in the ionic liquid 1-octyl-3-methylimidazolium hexafluorophosphate: Experimental and modelling. <i>Journal of Chemical Thermodynamics</i> , 2013, 65, 220-232.	1.0	123
28	Solubility of H <sub>2</sub> S in Aqueous Diisopropanolamine + Piperazine Solutions: New Experimental Data and Modeling with the Electrolyte Cubic Square-Well Equation of State. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2625-2631.	1.0	20
29	Solubility of CO <sub>2</sub> , H <sub>2</sub> S, and Their Mixture in the Ionic Liquid 1-Octyl-3-methylimidazolium Bis(trifluoromethyl)sulfonylimide. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2758-2774.	1.2	188
30	Densities, Viscosities, and Surface Tensions of Aqueous Mixtures of Sulfolane + Triethanolamine and Sulfolane + Diisopropanolamine. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 4317-4324.	1.0	45
31	Solubility of CO <sub>2</sub> in 1-(2-hydroxyethyl)-3-methylimidazolium ionic liquids with different anions. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 787-791.	1.0	96
32	DC-Pulsed Plasma for Dry Reforming of Methane to Synthesis Gas. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 333-347.	1.1	35
33	Solubility and diffusion of CO <sub>2</sub> and H <sub>2</sub> S in the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1298-1303.	1.0	176
34	Solubility of H <sub>2</sub> S in 1-(2-hydroxyethyl)-3-methylimidazolium ionic liquids with different anions. <i>Fluid Phase Equilibria</i> , 2010, 298, 303-309.	1.4	116
35	Determination of and interaction potentials from gaseous ion mobility data. <i>Molecular Physics</i> , 2010, 108, 35-40.	0.8	5
36	Solubility and Diffusion of H <sub>2</sub> S and CO <sub>2</sub> in the Ionic Liquid 1-(2-Hydroxyethyl)-3-methylimidazolium Tetrafluoroborate. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 1663-1668.	1.0	187

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37	Solubility of H <sub>2</sub> S in Ionic Liquids 1-Ethyl-3-methylimidazolium Hexafluorophosphate ([emim][PF <sub>6</sub> ]) and 1-Ethyl-3-methylimidazolium Bis(trifluoromethyl)sulfonylimide ([emim][Tf <sub>2</sub> N]). Journal of Chemical & Engineering Data, 2010, 55, 5839-5845.	1.0	114
38	Determination of the Maximal Lyapunov Exponent through the Effective Potential Energy: Exact Phase Transition Temperature of Few Particle System CF <sub>4</sub> . Journal of the Physical Society of Japan, 2009, 78, 124003.	0.7	1
39	Determination of HeO <sup>+</sup> and HeO <sup>+</sup> interaction potentials from gaseous ion-mobility data. Chemical Physics, 2009, 365, 94-99.	0.9	4
40	Solubility of H <sub>2</sub> S in ionic liquids [hmim][PF <sub>6</sub> ], [hmim][BF <sub>4</sub> ], and [hmim][Tf <sub>2</sub> N]. Journal of Chemical Thermodynamics, 2009, 41, 1052-1055.	1.0	149
41	Solubility of H <sub>2</sub> S in Ionic Liquids [bmim][PF <sub>6</sub> ], [bmim][BF <sub>4</sub> ], and [bmim][Tf <sub>2</sub> N]. Journal of Chemical & Engineering Data, 2009, 54, 1844-1849.	1.0	210
42	Isobaric Vapor-Liquid Equilibria of Hexane + 1-Decene and Octane + 1-Decene Mixtures. Journal of Chemical & Engineering Data, 2008, 53, 398-402.	1.0	7
43	Transport Properties of Non-Spherical Gases. Bulletin of the Chemical Society of Japan, 2007, 80, 699-706.	2.0	0
44	A Simple Mixing Rule for the Deiters Equation of State: Prediction of Interaction Second Virial Coefficients and PVT <sub>x</sub> Properties of Binary Mixtures. Journal of Chemical Engineering of Japan, 2007, 40, 203-212.	0.3	0
45	Molecular-Dynamics Simulation of a Methane-Oxygen Mixture: Prediction of P-V-T Data and Evaluation of Effective Pair Potential Models. Bulletin of the Chemical Society of Japan, 2005, 78, 2105-2113.	2.0	1
46	Conversion of methane to methanol in an ac dielectric barrier discharge. Plasma Sources Science and Technology, 2004, 13, 707-711.	1.3	39
47	Calculation of Transport Coefficients for CH <sub>4</sub> -N <sub>2</sub> and CH <sub>4</sub> -O <sub>2</sub> by the Inversion Method. Journal of the Physical Society of Japan, 2004, 73, 1191-1196.	0.7	10
48	Transport Properties and Effective Intermolecular Potentials for O <sub>2</sub> -O <sub>2</sub> , N <sub>2</sub> -N <sub>2</sub> , and O <sub>2</sub> -N <sub>2</sub> . Bulletin of the Chemical Society of Japan, 2004, 77, 1297-1303.	2.0	5