

# Xiangyang Liu

## List of Publications by Year in descending order

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85  
papers

1,447  
citations

304743

22  
h-index

414414

32  
g-index

85  
all docs

85  
docs citations

85  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Study of Flow and Heat Transfer in a Rectangular Channel Partially Filled with Porous Media at the Pore Scale Using Lattice Boltzmann Method. <i>Heat Transfer Engineering</i> , 2022, 43, 818-829.	1.9	2
2	Isobaric Molar Heat Capacities of Binary Mixtures of Diethyl Carbonate and Methyl Caprate at High Pressures. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 661-668.	1.9	2
3	Modelling co-gasification of plastic waste and lignin in supercritical water using reactive molecular dynamics simulations. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21060-21066.	7.1	13
4	Quantification of Dipolar Contribution and Modeling of Green Polar Fluids with the Polar Cubic-Plus-Association Equation of State. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7602-7619.	6.7	13
5	Two-Binary-Interaction-Parameter Model for Molecular Solute + Ionic Liquid Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11490-11501.	3.7	4
6	Robust predictive visual servoing control for an inertially stabilized platform with uncertain kinematics. <i>ISA Transactions</i> , 2021, 114, 347-358.	5.7	16
7	Synergistic effect of supercritical water and nano-catalyst on lignin gasification. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34626-34637.	7.1	15
8	Dynamic motions and architectural changes in DNA supramolecular aggregates visualized via transmission electron microscopy without liquid cells. <i>Nanoscale</i> , 2021, 13, 15928-15936.	5.6	0
9	Speed of sound and thermal diffusivity of ethyl myristate. <i>Journal of Chemical Thermodynamics</i> , 2020, 140, 105899.	2.0	4
10	Experimental Study on Isobaric Molar Heat Capacities of a Deep Eutectic Solvent: Choline Chloride + Ethylene Glycol. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 690-695.	1.9	11
11	The adsorption of hydrogen sulfide in calcite pores: A molecular simulation study. <i>Journal of Molecular Liquids</i> , 2020, 299, 112253.	4.9	15
12	Heat Capacities of Fluids: The Performance of Various Equations of State. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 5654-5676.	1.9	16
13	A Comprehensive Study on Thermophysical Properties of Carbon Dioxide through the Cubic-Plus-Association and Crossover Cubic-Plus-Association Equations of State. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 4268-4284.	1.9	7
14	A new power/cooling cogeneration system using R1234ze(E)/ionic liquid working fluid. <i>International Journal of Energy Research</i> , 2020, 44, 4703-4716.	4.5	8
15	Mutual diffusion coefficients of ethanol+heptane and diethyl carbonate+heptane from 288.15 K to 318.15 K. <i>Journal of Chemical Thermodynamics</i> , 2020, 144, 106089.	2.0	10
16	Prediction of Thermal Conductivity for Guiding Molecular Design of Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6022-6032.	6.7	17
17	Measurement of critical temperature and critical pressure of tert-butanol and alkane mixtures. <i>Journal of Molecular Liquids</i> , 2020, 302, 112582.	4.9	5
18	Molecular dynamics simulation of thermophysical properties and condensation process of R1233zd(E). <i>International Journal of Refrigeration</i> , 2020, 112, 341-347.	3.4	25

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19	Speed of Sound and Derived Properties of Ethyl Nonanoate. Journal of Chemical & Engineering Data, 2019, 64, 3632-3640.	1.9	6
20	Measurement of the speed of sound in supercritical n-hexane at temperatures from (509.17-637.99) K and pressures from (3.5-7.5) MPa. Fluid Phase Equilibria, 2019, 497, 97-103.	2.5	2
21	Experimental investigation and modeling of thermophysical properties of ethyl decanoate at high temperatures. Fluid Phase Equilibria, 2019, 501, 112274.	2.5	11
22	Critical properties for the mixtures of ethanol and some biodiesel surrogates. Journal of Supercritical Fluids, 2019, 153, 104591.	3.2	4
23	General Model Based on Artificial Neural Networks for Estimating the Viscosities of Oxygenated Fuels. ACS Omega, 2019, 4, 16564-16571.	3.5	5
24	Investigation on the condensation process of HFO refrigerants by molecular dynamics simulation. Journal of Molecular Liquids, 2019, 288, 111034.	4.9	42
25	Vapor-liquid equilibria and inter-diffusion coefficients for working pairs for absorption refrigeration systems composed of [HMIM][BF4] and fluorinated propanes. International Journal of Refrigeration, 2019, 104, 34-41.	3.4	20
26	A new activity coefficient model for the solution of molecular solute+ionic liquid. Fluid Phase Equilibria, 2019, 493, 144-152.	2.5	5
27	Isobaric molar heat capacities measurement of binary mixtures containing ethyl laurate and ethanol at high pressures. Journal of Molecular Liquids, 2019, 280, 301-306.	4.9	15
28	Caged Nitric Oxide+Thiyl Radical Pairs. Journal of the American Chemical Society, 2019, 141, 3361-3365.	13.7	16
29	Surface Tension of Aqueous Solutions of Small-Chain Amino and Organic Acids. Journal of Chemical & Engineering Data, 2019, 64, 5049-5056.	1.9	16
30	Performance comparison of two absorption-compression hybrid refrigeration systems using R1234yf/ionic liquid as working pair. Energy Conversion and Management, 2019, 181, 319-330.	9.2	87
31	A new thermodynamic cycle of heat pump relying on excess enthalpy changing. Applied Thermal Engineering, 2019, 150, 605-611.	6.0	5
32	Viscosity of oxygenated fuel: A model based on Eyring's absolute rate theory. Fuel, 2019, 241, 218-226.	6.4	23
33	Experimental and correlational study of isobaric molar heat capacities of fatty acid esters: Ethyl nonanoate and ethyl dodecanoate. Fluid Phase Equilibria, 2019, 479, 47-51.	2.5	22
34	Determination of critical properties for binary and ternary mixtures containing dimethyl carbonate and alkanes. Journal of Supercritical Fluids, 2018, 137, 40-49.	3.2	10
35	Solubilities and diffusivities of R227ea, R236fa and R245fa in 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Journal of Chemical Thermodynamics, 2018, 123, 158-164.	2.0	22
36	Vapor-liquid equilibrium and diffusion coefficients of R32+ [HMIM][FEP], R152a+ [HMIM][FEP] and R161+ [HMIM][FEP]. Journal of Molecular Liquids, 2018, 253, 28-35.	4.9	35

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37	Measurement of critical properties for binary and ternary mixtures containing potential gasoline additive diethyl carbonate (DEC). <i>Fluid Phase Equilibria</i> , 2018, 471, 17-23.	2.5	9
38	Measurement and correlation of viscosities and densities of methyl dodecanoate and ethyl dodecanoate at elevated pressures. <i>Thermochimica Acta</i> , 2018, 663, 85-92.	2.7	30
39	Gaseous Absorption of <i>trans</i> -1-Chloro-3,3,3-trifluoropropene in Three Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 1780-1788.	1.9	9
40	Estimating the viscosity of ionic liquid at high pressure using Eyring's absolute rate theory. <i>Fluid Phase Equilibria</i> , 2018, 458, 170-176.	2.5	22
41	Temperature and pressure dependence of densities and viscosities for binary mixtures of methyl decanoate plus n-heptane. <i>Thermochimica Acta</i> , 2018, 670, 211-218.	2.7	19
42	Thermodynamics analysis on absorption refrigeration system using new working pairs of R227ea + [P(14)666][TMPP], R236fa + [P(14)666][TMPP] and R245fa + [P(14)666][TMPP]. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
43	Densities and Viscosities of Mixtures of Methyl Dodecanoate + Ethyl Octanoate at Pressures up to 15 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 4085-4094.	1.9	5
44	Measurement of Critical Properties for Binary and Ternary Mixtures Containing n-Butanol and n-Alkane. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3956-3965.	1.9	5
45	Absorption and separation of CO <sub>2</sub> /C <sub>3</sub> H <sub>8</sub> and C <sub>3</sub> H <sub>6</sub> /C <sub>3</sub> H <sub>8</sub> by ionic liquid: Effect of molar volume. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 58, 266-274.	4.4	14
46	Propane/propylene separation and CO <sub>2</sub> capture in magnetic ionic liquid [bmim][FeCl <sub>4</sub> ]. <i>Chemical Engineering Research and Design</i> , 2018, 137, 186-193.	5.6	7
47	Prediction of the critical properties of mixtures based on group contribution theory. <i>Journal of Molecular Liquids</i> , 2018, 271, 313-318.	4.9	16
48	Isobaric Molar Heat Capacity of Ethyl Octanoate and Ethyl Decanoate at Pressures up to 24 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 2252-2256.	1.9	14
49	Correlation for viscosities of pure liquids at high pressures. <i>Journal of Molecular Liquids</i> , 2017, 231, 404-410.	4.9	13
50	Diffusion coefficients and Henry's constants of hydrofluorocarbons in [HMIM][Tf <sub>2</sub> N], [HMIM][TfO], and [HMIM][BF <sub>4</sub> ]. <i>Journal of Chemical Thermodynamics</i> , 2017, 112, 43-51.	2.0	27
51	Isobaric molar heat capacities of binary mixtures containing methyl caprate and methyl laurate at pressures up to 16.2 MPa. <i>Thermochimica Acta</i> , 2017, 651, 43-46.	2.7	16
52	Fouling formed on SS316L tube surface from thermal oxidative degradation of exo-tetrahydrodicyclopentadiene. <i>Applied Thermal Engineering</i> , 2017, 118, 464-470.	6.0	7
53	Isobaric heat capacities of exo-tetrahydrodicyclopentadiene at temperatures from 323 K to 523 K and pressures up to 6 MPa. <i>Fluid Phase Equilibria</i> , 2017, 434, 102-106.	2.5	3
54	Measurement and Correlation of the Solubilities of Oxygen, Nitrogen, and Carbon Dioxide in JP-10. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 3998-4005.	1.9	3

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55	Densities and Viscosities of Ethyl Heptanoate and Ethyl Octanoate at Temperatures from 303 to 353 K and at Pressures up to 15 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 2454-2460.	1.9	22
56	Prediction of critical temperature and critical pressure of multi-component mixtures. <i>Fluid Phase Equilibria</i> , 2017, 441, 2-8.	2.5	10
57	Isobaric molar heat capacities of 1-ethyl-3-methylimidazolium acetate and 1-hexyl-3-methylimidazolium acetate up to 16 MPa. <i>Fluid Phase Equilibria</i> , 2016, 427, 187-193.	2.5	20
58	Mutual diffusion coefficients of isopropanol + n-heptane and isobutanol + n-heptane. <i>Journal of Chemical Thermodynamics</i> , 2016, 96, 127-133.	2.0	14
59	Solubilities of propane and cyclopropane in 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate. <i>International Journal of Refrigeration</i> , 2016, 67, 69-76.	3.4	5
60	Vapor-Liquid Equilibrium of R1234yf/[HMIM][Tf <sub>2</sub> N] and R1234ze(E)/[HMIM][Tf <sub>2</sub> N] Working Pairs for the Absorption Refrigeration Cycle. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 3952-3957.	1.9	53
61	Solubilities of R32, R245fa, R227ea and R236fa in a phosphonium-based ionic liquid. <i>Journal of Molecular Liquids</i> , 2016, 218, 525-530.	4.9	31
62	Experimental determination of critical data of multi-component mixtures containing potential gasoline additives 2-butanol by a flow-type apparatus. <i>Journal of Chemical Thermodynamics</i> , 2016, 101, 35-43.	2.0	7
63	Mutual diffusion behavior of short chain alcohols+n-octane mixtures. <i>Thermochimica Acta</i> , 2016, 624, 1-7.	2.7	8
64	Determination of critical properties for binary and ternary mixtures containing propanol and alkanes using a flow view-type apparatus. <i>Journal of Supercritical Fluids</i> , 2016, 108, 35-44.	3.2	30
65	Selective absorption of CO <sub>2</sub> from H <sub>2</sub> , O <sub>2</sub> and N <sub>2</sub> by 1-hexyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate. <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 48-54.	2.0	24
66	Isobaric heat capacities of ethyl heptanoate and ethyl cinnamate at pressures up to 16.3 MPa. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 70-74.	2.0	17
67	Measurement of the Critical Properties of the Ternary Systems Hexane + Heptane + Octane and Octane + Nonane + Decane Using a Flow Apparatus. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 12-18.	1.9	9
68	Vapor-Liquid Equilibrium of Three Hydrofluorocarbons with [HMIM][Tf <sub>2</sub> N]. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 1354-1361.	1.9	52
69	Solubilities of R-161 and R-143a in 1-Hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Fluid Phase Equilibria</i> , 2015, 388, 37-42.	2.5	39
70	Gaseous absorption of fluorinated ethanes by ionic liquids. <i>Fluid Phase Equilibria</i> , 2015, 405, 1-6.	2.5	23
71	Physical data for a process to separate krypton from air by selective absorption in an ionic liquid. <i>Fluid Phase Equilibria</i> , 2015, 404, 124-130.	2.5	13
72	Solubilities of isobutane and cyclopropane in ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015, 88, 30-35.	2.0	7

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73	Estimating the viscosity of pure refrigerants and their mixtures by free-volume theory. <i>International Journal of Refrigeration</i> , 2015, 54, 55-66.	3.4	25
74	Measurement of isobaric heat capacity of pure water up to supercritical conditions. <i>Journal of Supercritical Fluids</i> , 2015, 100, 1-6.	3.2	16
75	Heat capacities of fatty acid methyl esters from 300 K to 380 K and up to 4.25 MPa. <i>Fuel</i> , 2015, 157, 240-244.	6.4	27
76	Isobaric Heat Capacity of Boric Acid Solution. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 4200-4204.	1.9	10
77	Viscosities and Densities of Phosphonium-Based Ionic Liquids Mixed with Dodecane. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 839-850.	2.8	3
78	High Solubilities for Methane, Ethane, Ethylene, and Propane in Trimethyloctylphosphonium Bis(2,4,4-trimethylpentyl) Phosphinate ([P8111][TMPP]). <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 363-368.	3.7	26
79	Unusual trend of viscosities and densities for four ionic liquids containing a tetraalkyl phosphonium cation and the anion bis(2,4,4-trimethylpentyl) phosphinate. <i>Journal of Chemical Thermodynamics</i> , 2014, 70, 122-126.	2.0	11
80	Solubilities of small hydrocarbons, viscosities of diluted tetraalkylphosphonium bis(2,4,4-trimethylpentyl) phosphinates. <i>AIChE Journal</i> , 2014, 60, 2607-2612.	3.6	17
81	High Solubilities of Carbon Dioxide in Tetraalkyl Phosphonium-Based Ionic Liquids and the Effect of Diluents on Viscosity and Solubility. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 954-960.	1.9	29
82	Solubilities of Small Hydrocarbons in Tetrabutylphosphonium Bis(2,4,4-trimethylpentyl) Phosphinate and in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14975-14978.	3.7	40
83	High Solubilities of Small Hydrocarbons in Trihexyl Tetradecylphosphonium Bis(2,4,4-trimethylpentyl) Phosphinate. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10534-10539.	2.6	45
84	Solubilities of some gases in four imidazolium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 63, 88-94.	2.0	66
85	Isobaric molar heat capacities of dimethyl carbonate and alkane binary mixtures at high pressures. <i>Journal of Thermal Analysis and Calorimetry</i> , 0, , 1.	3.6	0