

# Maogang He

## List of Publications by Year in descending order

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109  
papers

1,448  
citations

331259

21  
h-index

454577

30  
g-index

109  
all docs

109  
docs citations

109  
times ranked

672  
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.	1.2	2
2	Thermodynamic and Economic Studies of a Combined Cycle for Waste Heat Recovery of Marine Diesel Engine. <i>Journal of Thermal Science</i> , 2022, 31, 417-435.	0.9	6
3	Development status and some considerations on Energy Internet construction in Beijing-Tianjin-Hebei region. <i>Heliyon</i> , 2022, 8, e08722.	1.4	6
4	Measurement of the critical temperature and critical pressure of isopropanol and isobutanol blended with gasoline components. <i>Journal of Supercritical Fluids</i> , 2022, 182, 105536.	1.6	1
5	Regulating structure and flow of ionic liquid confined in nanochannel using water and electric field. <i>Journal of Molecular Liquids</i> , 2022, 351, 118612.	2.3	13
6	Association effect on the density, viscosity and excess properties of fatty acid ester+alcohol mixtures: Experiment and modeling. <i>Fuel</i> , 2022, 316, 123425.	3.4	2
7	Measurement of the thermal conductivity of the components of biodiesels: Methyl laurate and methyl myristate. <i>Fluid Phase Equilibria</i> , 2022, 556, 113409.	1.4	11
8	Experimental Studies of Thermal Conductivity of Three Biodiesel Compounds: Methyl Pentanoate, Methyl Octanoate, and Methyl Decanoate. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 45-53.	1.0	12
9	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.	1.0	2
10	Measurement of the speed of sound in near-critical n-dodecane at temperatures from (433 to 679) K and pressures up to 10.0MPa. <i>Journal of Chemical Thermodynamics</i> , 2022, 170, 106768.	1.0	1
11	Speed of Sound and Excess Properties of (Ethanol + Isooctane) Binary System. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 1428-1437.	1.0	1
12	Speed of sound measurement and mixing-rule evaluation of (n-butanol+n-heptane) binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2022, 172, 106817.	1.0	3
13	Experimental measurement and prediction of thermal conductivity of fatty acid ethyl esters: ethyl butyrate and ethyl caproate. <i>Fluid Phase Equilibria</i> , 2022, 560, 113507.	1.4	5
14	Tuning the Molecular Structure and Transport Property of [bmim][Tf2N] Using Electric Field. <i>Journal of Thermal Science</i> , 2022, 31, 1076-1083.	0.9	4
15	Thermodynamic optimization of lithium chloride-potassium chloride-zinc chloride and lithium chloride-potassium chloride-magnesium chloride for thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 53, 105028.	3.9	6
16	Data-driven multi-objective molecular design of ionic liquid with high generation efficiency on small dataset. <i>Materials and Design</i> , 2022, 220, 110888.	3.3	6
17	Ultra-accurate thermophysical properties of helium-4 and helium-3 at low density. I. Second pressure and acoustic virial coefficients. <i>Molecular Physics</i> , 2021, 119, e1802525.	0.8	7
18	Improving the viscosity and density of n-butanol as alternative to gasoline by blending with dimethyl carbonate. <i>Fuel</i> , 2021, 286, 119360.	3.4	21

#	ARTICLE	IF	CITATIONS
19	Measurements and calculations of thermal conductivity for liquid n-octane and n-decane. <i>Fluid Phase Equilibria</i> , 2021, 533, 112940.	1.4	23
20	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.	3.2	13
21	Two-Binary-Interaction-Parameter Model for Molecular Solute + Ionic Liquid Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11490-11501.	1.8	4
22	Measurement and modeling of thermal conductivity for short chain methyl esters: Methyl butyrate and methyl caproate. <i>Journal of Chemical Thermodynamics</i> , 2021, 159, 106486.	1.0	22
23	General models for prediction densities and viscosities of saturated and unsaturated fatty acid esters. <i>Journal of Molecular Liquids</i> , 2021, 341, 117374.	2.3	12
24	Thermal conductivity measurements for long-chain n-alkanes at evaluated temperature and pressure: n-dodecane and n-tetradecane. <i>Journal of Chemical Thermodynamics</i> , 2021, 162, 106566.	1.0	18
25	Dynamic motions and architectural changes in DNA supramolecular aggregates visualized via transmission electron microscopy without liquid cells. <i>Nanoscale</i> , 2021, 13, 15928-15936.	2.8	0
26	Two Crossover Soave-Redlich-Kwong Equations of State with Fully Analytical Crossover Functions for the Thermodynamic Properties of Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15301-15309.	1.8	4
27	Unique Arrangement of Atoms Leads to Low Thermal Conductivity: A Comparative Study of Monolayer Mg <sub>2</sub> C. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10353-10358.	2.1	7
28	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.	1.0	11
29	Measurement of the speed of sound in supercritical n-pentane at temperatures from (422.69-653.53) K and pressures from (3.5-10.0) MPa. <i>Fluid Phase Equilibria</i> , 2020, 507, 112390.	1.4	0
30	Thermal conductivity analysis of two-dimensional complex plasma liquids and crystals. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	12
31	Modeling heat capacity of saturated hydrocarbon in liquid phase over a wide range of temperature and pressure. <i>Journal of Molecular Liquids</i> , 2020, 319, 114068.	2.3	12
32	Thermo-Acoustic Properties of (Ethanol + n-Heptane) Binary Mixtures from 293.35 to 433.89 K and up to 5.0 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 3893-3905.	1.0	1
33	Heat Capacities of Fluids: The Performance of Various Equations of State. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 5654-5676.	1.0	16
34	Speed of Sound and Derivative Properties of Ethyl Laurate from Rayleigh-Brillouin Light-Scattering Spectroscopy. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 3146-3160.	1.0	3
35	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.	1.0	7
36	A new power/cooling cogeneration system using R1234ze(E)/ionic liquid working fluid. <i>International Journal of Energy Research</i> , 2020, 44, 4703-4716.	2.2	8

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37	Mutual diffusion coefficients of ethanol+heptane and diethyl carbonate+heptane from 288.15K to 318.15K. <i>Journal of Chemical Thermodynamics</i> , 2020, 144, 106089.	1.0	10
38	Prediction of Thermal Conductivity for Guiding Molecular Design of Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6022-6032.	3.2	17
39	Measurement of critical temperature and critical pressure of tert-butanol and alkane mixtures. <i>Journal of Molecular Liquids</i> , 2020, 302, 112582.	2.3	5
40	Molecular dynamics simulation of thermophysical properties and condensation process of R1233zd(E). <i>International Journal of Refrigeration</i> , 2020, 112, 341-347.	1.8	25
41	Measurement of the speed of sound in n-decane at temperatures from (298.32 to 653.95) K and pressures up to 10.0MPa. <i>Journal of Chemical Thermodynamics</i> , 2020, 148, 106127.	1.0	2
42	Speed of sound for ethanol in vicinity of the critical point from Rayleigh-Brillouin light scattering spectroscopy. <i>Fluid Phase Equilibria</i> , 2020, 515, 112585.	1.4	3
43	Measurement of the Speed of Sound in Methyl Caprylate from 298.22 to 608.38 K and up to 10 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 3617-3623.	1.0	1
44	Speed of Sound and Derived Properties of Ethyl Nonanoate. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 3632-3640.	1.0	6
45	Measurement of the speed of sound in supercritical n-hexane at temperatures from (509.17 to 637.99) K and pressures from (3.5 to 7.5) MPa. <i>Fluid Phase Equilibria</i> , 2019, 497, 97-103.	1.4	2
46	Experimental investigation and modeling of thermophysical properties of ethyl decanoate at high temperatures. <i>Fluid Phase Equilibria</i> , 2019, 501, 112274.	1.4	11
47	Isothermal titration calorimetry in a 3D-printed microdevice. <i>Biomedical Microdevices</i> , 2019, 21, 96.	1.4	5
48	General Model Based on Artificial Neural Networks for Estimating the Viscosities of Oxygenated Fuels. <i>ACS Omega</i> , 2019, 4, 16564-16571.	1.6	5
49	Investigation on the condensation process of HFO refrigerants by molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2019, 288, 111034.	2.3	42
50	Selection and Evaluation of Dry and Isentropic Organic Working Fluids Used in Organic Rankine Cycle Based on the Turning Point on Their Saturated Vapor Curves. <i>Journal of Thermal Science</i> , 2019, 28, 643-658.	0.9	33
51	A new activity coefficient model for the solution of molecular solute+ionic liquid. <i>Fluid Phase Equilibria</i> , 2019, 493, 144-152.	1.4	5
52	Isobaric molar heat capacities measurement of binary mixtures containing ethyl laurate and ethanol at high pressures. <i>Journal of Molecular Liquids</i> , 2019, 280, 301-306.	2.3	15
53	Measurement of Speed of Sound in Methyl Hexanoate from 297.83 to 588.07 K and up to 10 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5698-5704.	1.0	0
54	Surface Tension of Aqueous Solutions of Small-Chain Amino and Organic Acids. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5049-5056.	1.0	16

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55	Performance comparison of two absorption-compression hybrid refrigeration systems using R1234yf/ionic liquid as working pair. <i>Energy Conversion and Management</i> , 2019, 181, 319-330.	4.4	87
56	Speed of Sound Measurement in 1-Methoxy-2-propanol from (306.81 to 648.29) K and up to 10 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 337-344.	1.0	2
57	Viscosity of oxygenated fuel: A model based on Eyring's absolute rate theory. <i>Fuel</i> , 2019, 241, 218-226.	3.4	23
58	Experimental and correlational study of isobaric molar heat capacities of fatty acid esters: Ethyl nonanoate and ethyl dodecanoate. <i>Fluid Phase Equilibria</i> , 2019, 479, 47-51.	1.4	22
59	Solubilities and diffusivities of R227ea, R236fa and R245fa in 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical Thermodynamics</i> , 2018, 123, 158-164.	1.0	22
60	Vapor-liquid equilibrium and diffusion coefficients of R32+ <sup>+</sup> [HMIM][FEP], R152a+ <sup>+</sup> [HMIM][FEP] and R161+ <sup>+</sup> [HMIM][FEP]. <i>Journal of Molecular Liquids</i> , 2018, 253, 28-35.	2.3	35
61	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.	1.4	9
62	Measurement and correlation of viscosities and densities of methyl dodecanoate and ethyl dodecanoate at elevated pressures. <i>Thermochimica Acta</i> , 2018, 663, 85-92.	1.2	30
63	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.	1.0	9
64	Measurements of the Speed of Sound in Liquid and Supercritical <i>n</i> -Octane and Isooctane. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 102-112.	1.0	5
65	Mesoscopic Diffusion of Poly(ethylene oxide) in Pure and Mixed Solvents. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3454-3464.	1.2	9
66	Estimating the viscosity of ionic liquid at high pressure using Eyring's absolute rate theory. <i>Fluid Phase Equilibria</i> , 2018, 458, 170-176.	1.4	22
67	Unusual Transformation of Polymer Coils in a Mixed Solvent Close to the Critical Point. <i>Physical Review Letters</i> , 2018, 121, 207802.	2.9	15
68	Temperature and pressure dependence of densities and viscosities for binary mixtures of methyl decanoate plus <i>n</i> -heptane. <i>Thermochimica Acta</i> , 2018, 670, 211-218.	1.2	19
69	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.	1.0	5
70	Measurement of Critical Properties for Binary and Ternary Mixtures Containing <i>n</i> -Butanol and <i>n</i> -Alkane. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3956-3965.	1.0	5
71	Measurement of the Speed of Sound in Near-Critical and Supercritical <i>n</i> -Heptane at Temperatures from (513.40 to 650.90) K and Pressures from (2.5 to 10.0) MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3331-3337.	1.0	6
72	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.	2.1	14

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73	Prediction of the critical properties of mixtures based on group contribution theory. <i>Journal of Molecular Liquids</i> , 2018, 271, 313-318.	2.3	16
74	Measurement of thermal diffusivity for carbon dioxide (CO <sub>2</sub> ) at T = 293.15–406.15 K and pressures up to 11 MPa by dynamic light scattering (DLS). <i>Fluid Phase Equilibria</i> , 2018, 474, 126-130.	1.4	5
75	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.	1.0	14
76	Correlation for viscosities of pure liquids at high pressures. <i>Journal of Molecular Liquids</i> , 2017, 231, 404-410.	2.3	13
77	Vibrational behavior of single-walled carbon nanotubes based on cylindrical shell model using wave propagation approach. <i>AIP Advances</i> , 2017, 7, .	0.6	33
78	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.	1.0	27
79	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.	1.2	16
80	Fouling formed on SS316L tube surface from thermal oxidative degradation of exo-tetrahydrodicyclopentadiene. <i>Applied Thermal Engineering</i> , 2017, 118, 464-470.	3.0	7
81	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.	1.4	3
82	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.	1.0	3
83	Thermal Diffusivity of 2-Ethoxy-2-methylpropane (ETBE) and 2-Methoxy-2-methylbutane (TAME) at Temperatures from (293 to 523) K and Pressure up to 10 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 893-901.	1.0	4
84	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.	1.0	22
85	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.	1.4	20
86	Speed of Sound in Methyl Caprate, Methyl Laurate, and Methyl Myristate: Measurement by Brillouin Light Scattering and Prediction by Wada's Group Contribution Method. <i>Energy &amp; Fuels</i> , 2016, 30, 9502-9509.	2.5	16
87	Speed of Sound Measurements of 2-Methoxy-2-methylpropane in the Temperature Range of 293.15 and 673.15 K and for Pressures up to 10 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 3127-3134.	1.0	1
88	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.	1.0	53
89	Solubilities of R32, R245fa, R227ea and R236fa in a phosphonium-based ionic liquid. <i>Journal of Molecular Liquids</i> , 2016, 218, 525-530.	2.3	31
90	Measurement of the Speed of Sound in Hexane and Heptane at Temperatures from (303.15 to 536.15) K and Pressures from (1.0 to 8.5) MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 701-711.	1.0	13

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91	Mutual diffusion behavior of short chain alcohols+n-octane mixtures. <i>Thermochimica Acta</i> , 2016, 624, 1-7.	1.2	8
92	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.	1.0	17
93	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.	1.0	52
94	Solubilities of R-161 and R-143a in 1-Hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Fluid Phase Equilibria</i> , 2015, 388, 37-42.	1.4	39
95	Gaseous absorption of fluorinated ethanes by ionic liquids. <i>Fluid Phase Equilibria</i> , 2015, 405, 1-6.	1.4	23
96	Estimating the viscosity of pure refrigerants and their mixtures by free-volume theory. <i>International Journal of Refrigeration</i> , 2015, 54, 55-66.	1.8	25
97	Measurement of isobaric heat capacity of pure water up to supercritical conditions. <i>Journal of Supercritical Fluids</i> , 2015, 100, 1-6.	1.6	16
98	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.	3.4	27
99	Isobaric Heat Capacity of Boric Acid Solution. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 4200-4204.	1.0	10
100	Thermal Diffusivity and Speed of Sound of Saturated Pentane from Light Scattering. <i>International Journal of Thermophysics</i> , 2014, 35, 1450-1464.	1.0	27
101	Solubilities of small hydrocarbons, viscosities of diluted tetraalkylphosphonium bis(2,4,4-trimethylpentyl) phosphinates. <i>AIChE Journal</i> , 2014, 60, 2607-2612.	1.8	17
102	Effects of Liquid Supply Method on Falling-Film Mode Transitions on Horizontal Tubes. <i>Heat Transfer Engineering</i> , 2013, 34, 562-579.	1.2	16
103	Determination of Binary Gas Diffusion Coefficients Using Digital Holographic Interferometry. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 3318-3321.	1.0	13
104	A New Method of Processing Mach-Zehnder Interference Fringe Data in Determination of Diffusion Coefficient. <i>International Journal of Thermophysics</i> , 2009, 30, 1823-1837.	1.0	8
105	Mutual Diffusion Coefficients of Diethyl Carbonate and Diethyl Adipate in Heptane at $T = (278.15 \text{ to } T_j) \text{ K}$ . <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 2861-2864.	1.0	8
106	First law-based thermodynamic analysis on Kalina cycle. <i>Frontiers of Energy and Power Engineering in China</i> , 2008, 2, 145-151.	0.4	8
107	Mass Diffusion Coefficients of Dimethyl Carbonate in Heptane and in Air at $T = (278.15 \text{ to } 338.15) \text{ K}$ . <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 2861-2864.	1.0	15
108	Measurement of Thermal Diffusivity of n-Pentane from (293-573) K and up to 10.0 MPa in the Near-Critical and Supercritical Regions. <i>Journal of Chemical &amp; Engineering Data</i> , 0, , .	1.0	1

#	ARTICLE	IF	CITATIONS
109	Isobaric molar heat capacities of dimethyl carbonate and alkane binary mixtures at high pressures. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	0