

Xiaoxian Yang

List of Publications by Year in descending order

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papers

673
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516215

16
h-index

610482

24
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39
times ranked

328
citing authors

#	ARTICLE	IF	CITATIONS
1	The upper limit of moisture content for supercritical CO ₂ pipeline transport. <i>Journal of Supercritical Fluids</i> , 2012, 67, 14-21.	1.6	74
2	Effect of pressure on corrosion behavior of X60, X65, X70, and X80 carbon steels in water-unsaturated supercritical CO ₂ environments. <i>International Journal of Greenhouse Gas Control</i> , 2016, 51, 357-368.	2.3	42
3	Entropy Scaling of Viscosity: Application to Refrigerants and Their Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1385-1398.	1.0	41
4	Impact of surface roughness and humidity on X70 steel corrosion in supercritical CO ₂ mixture with SO ₂ , H ₂ O, and O ₂ . <i>Journal of Supercritical Fluids</i> , 2016, 107, 286-297.	1.6	37
5	Measurement and modelling of the thermodynamic properties of carbon dioxide mixtures with HFO-1234yf, HFC-125, HFC-134a, and HFC-32: vapour-liquid equilibrium, density, and heat capacity. <i>International Journal of Refrigeration</i> , 2020, 118, 514-528.	1.8	33
6	Density measurements on binary mixtures (nitrogen + carbon dioxide and argon + carbon dioxide) at temperatures from (298.15 to 423.15) K with pressures from (11 to 31) MPa using a single-sinker densimeter. <i>Journal of Chemical Thermodynamics</i> , 2015, 91, 17-29.	1.0	28
7	Analysis of the systematic force-transmission error of the magnetic-suspension coupling in single-sinker densimeters and commercial gravimetric sorption analyzers. <i>Adsorption</i> , 2019, 25, 717-735.	1.4	27
8	Uncertainty analysis of adsorption measurements using commercial gravimetric sorption analyzers with simultaneous density measurement based on a magnetic-suspension balance. <i>Adsorption</i> , 2020, 26, 645-659.	1.4	25
9	Entropy Scaling of Thermal Conductivity: Application to Refrigerants and Their Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13052-13070.	1.8	23
10	Thermal conductivity measurements and correlations of pure R1243zf and binary mixtures of R32+R1243zf and R32+R1234yf. <i>International Journal of Refrigeration</i> , 2021, 131, 990-999.	1.8	22
11	Thermal conductivity measurements of refrigerant mixtures containing hydrofluorocarbons (HFC-32). <i>Journal of Chemical Thermodynamics</i> , 2020, 151, 106248.	1.0	20
12	Temperature dependence of adsorption hysteresis in flexible metal organic frameworks. <i>Communications Chemistry</i> , 2020, 3, .	2.0	20
13	Vapor-Phase (p, T, x) Behavior and Virial Coefficients for the Binary Mixture (0.05 Hydrogen + 0.95) <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2973-2981.	1.0	19
14	Viscosity Measurements of Binary and Multicomponent Refrigerant Mixtures Containing HFC-32, HFC-125, HFC-134a, HFO-1234yf, and CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4252-4262.	1.0	19
15	Accurate Density Measurements on Ternary Mixtures (Carbon Dioxide + Nitrogen + Argon) at Temperatures from (323.15 to 423.15) K with Pressures from (3 to 31) MPa using a Single-Sinker Densimeter. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 3353-3357.	1.0	17
16	Vapor-Phase (p, T, x) Behavior and Virial Coefficients for the (Argon+Carbon) <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2973-2981.	1.0	17
17	Viscosity of binary refrigerant mixtures of R32+R1234yf and R32+R1243zf. <i>International Journal of Refrigeration</i> , 2021, 128, 197-197.	1.8	17
18	Modeling the thermal conductivity of hydrofluorocarbons, hydrofluoroolefins and their binary mixtures using residual entropy scaling and cubic-plus-association equation of state. <i>Journal of Molecular Liquids</i> , 2021, 330, 115612.	2.3	17

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19	Accurate density measurements on a binary mixture (carbon dioxide+methane) at the vicinity of the critical point in the supercritical state by a single-sinker densimeter. <i>Fluid Phase Equilibria</i> , 2016, 418, 94-99.	1.4	16
20	Vapor-Phase (p, T, x) Behavior and Virial Coefficients for the Binary Mixture (0.05 Argon) Tj ETQq0 0 0 rgBT /Overlock 10 <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2676-2681.	1.0	15
21	Fine-tuning the pore structure of metal-organic frameworks by linker substitution for enhanced hydrogen storage and gas separation. <i>CrystEngComm</i> , 2021, 23, 3026-3032.	1.3	15
22	Evaluating cubic equations of state for predictions of solid-fluid equilibrium in liquefied natural gas production. <i>Fuel</i> , 2022, 314, 123033.	3.4	13
23	Experimental Investigation of Surface Phenomena on Quasi Nonporous and Porous Materials Near Dew Points of Pure Fluids and Their Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3238-3251.	1.8	12
24	Net, Excess, and Absolute Adsorption of N_2 , CH_4 , and CO_2 on Metal-Organic Frameworks of ZIF-8, MIL-101(Cr), and UiO-66 at 282-361 K and up to 12 MPa. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 404-414.	1.0	12
25	Measurement and correlation of the (p, T) behavior of liquid propylene glycol at temperatures from (272.7 to 393.0) K and pressures up to 91.4 MPa. <i>Journal of Chemical Thermodynamics</i> , 2019, 131, 206-218.	1.0	10
26	Flexible Adsorbents at High Pressure: Observations and Correlation of ZIF-7 Stepped Sorption Isotherms for Nitrogen, Argon, and Other Gases. <i>Langmuir</i> , 2020, 36, 14967-14977.	1.6	10
27	High-Pressure Thermal Conductivity Measurements of a (Methane + Propane) Mixture with a Transient Hot-Wire Apparatus. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 906-915.	1.0	10
28	Measurement and correlation of the (p, T) behaviour of liquid ethylene glycol at temperatures from (283.3 to 393.1) K and pressures up to 100.1 MPa. <i>Journal of Chemical Thermodynamics</i> , 2020, 144, 106054.	1.0	9
29	Avoiding costly LNG plant freeze-out-induced shutdowns: Measurement and modelling for neopentane solubility at LNG conditions. <i>Energy</i> , 2021, 217, 119331.	4.5	8
30	Natural gas density measurements and the impact of accuracy on process design. <i>Fuel</i> , 2021, 304, 121395.	3.4	7
31	High pressure viscosity measurements of ternary (methane + propane + heptane) mixtures. <i>Fuel Processing Technology</i> , 2021, 223, 106984.	3.7	7
32	Vapour-phase (p, T, x) behaviour and virial coefficients for the (ethane+carbon dioxide) system. <i>Journal of Chemical Thermodynamics</i> , 2018, 122, 204-213.	1.0	6
33	Miscible Fluid Displacement in Rock Cores Evaluated with NMR T2 Relaxation Time Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18280-18289.	1.8	6
34	Linking Fluid Densimetry and Molecular Simulation: Adsorption Behavior of Carbon Dioxide on Planar Gold Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13283-13289.	1.8	6
35	Low-Field NMR Relaxation Analysis of High-Pressure Ethane Adsorption in Mesoporous Silicas. <i>ChemPhysChem</i> , 2022, 23, e202100794.	1.0	6
36	Equation of State for Solid Benzene Valid for Temperatures up to 470 K and Pressures up to 1800 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2021, 50, .	1.9	4

#	ARTICLE	IF	CITATIONS
37	A microwave sensor for detecting impurity freeze out in liquefied natural gas production. Fuel Processing Technology, 2021, 219, 106878.	3.7	1
38	High Pressure Thermal Conductivity Measurements of Ternary (Methane+Propane+Heptane) Mixtures with a Transient Hot-Wire Apparatus. International Journal of Thermophysics, 2021, 42, 1.	1.0	1