

Shuqian Xia

List of Publications by Year in descending order

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69
papers

2,753
citations

279487

23
h-index

182168

51
g-index

69
all docs

69
docs citations

69
times ranked

3270
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of nanomaterials as viscosity reducer for heavy oil. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 1271-1282.	1.3	24
2	Synthesis and mechanism analysis of a new oil soluble viscosity reducer for flow improvement of Chenping heavy oil. <i>Chinese Journal of Chemical Engineering</i> , 2022, 45, 58-67.	1.7	4
3	Isobaric vapor-liquid equilibria and distillation process design for separating ketones in biomass pyrolysis oil. <i>Journal of Chemical Thermodynamics</i> , 2022, 164, 106622.	1.0	6
4	Insights into the mechanism during viscosity reduction process of heavy oil through molecule simulation. <i>Fuel</i> , 2022, 310, 122270.	3.4	27
5	Mechanistic effects of solvent systems on the Ni-Sn-catalyzed hydrodeoxygenation of lignin derivatives to none-oxygenates. <i>Catalysis Science and Technology</i> , 2022, 12, 154-166.	2.1	2
6	Experiment and model for solubility of CO ₂ in alkanes with ethyl acetate as cosolvent. <i>Journal of Chemical Thermodynamics</i> , 2022, 168, 106741.	1.0	4
7	Emulsifying stability and viscosity reduction for heavy crude oil in surfactant-polymer composite system. <i>Journal of Molecular Liquids</i> , 2022, 362, 119713.	2.3	22
8	Evaluating the properties of ionic liquid at variable temperatures and pressures by quantitative structure-property relationship (QSPR). <i>Chemical Engineering Science</i> , 2021, 231, 116326.	1.9	14
9	The solubility of CO ₂ in (hexane+Cyclohexane) and (cyclopentane+Ethylbenzene) and (toluene+Undecane) systems at high pressures. <i>Journal of Chemical Thermodynamics</i> , 2021, 154, 106324.	1.0	6
10	Isobaric Vapor-Liquid Equilibria of Binary Systems Containing Cyclohexane for the Separation of Phenolic Compounds from Biomass Fast Pyrolysis Oils. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 2374-2382.	1.0	3
11	Research progress and development trend of heavy oil emulsifying viscosity reducer: a review. <i>Petroleum Science and Technology</i> , 2021, 39, 550-563.	0.7	11
12	Stabilization of fast pyrolysis liquids from biomass by catalytic hydrotreatment using Raney nickel catalysts. <i>Fuel Processing Technology</i> , 2021, 219, 106846.	3.7	12
13	Hydrodeoxygenation of aliphatic acid over NiFe intermetallic compounds: Insights into the mechanism via model compound study. <i>Fuel</i> , 2021, 305, 121545.	3.4	11
14	Molecular Design of the Amphiphilic Polymer as a Viscosity Reducer for Heavy Crude Oil: From Mesoscopic to Atomic Scale. <i>Energy & Fuels</i> , 2021, 35, 1152-1164.	2.5	25
15	Fabrication of a NiFe Alloy Oxide Catalyst via Surface Reconstruction for Selective Hydrodeoxygenation of Fatty Acid to Fatty Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15027-15041.	3.2	12
16	Methyl lactate production from levoglucosan by using Sn-Beta and H-Beta catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 798-805.	1.6	4
17	Norm index in QSTR work for predicting toxicity of ionic liquids on <i>Vibrio fischeri</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111187.	2.9	8
18	Stabilization of Fast Pyrolysis Liquids from Biomass by Mild Catalytic Hydrotreatment: Model Compound Study. <i>Catalysts</i> , 2020, 10, 402.	1.6	4

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19	QSPR models for the properties of ionic liquids at variable temperatures based on norm descriptors. <i>Chemical Engineering Science</i> , 2020, 217, 115540.	1.9	22
20	Estimation and Correlation of Phase Equilibrium of CO ₂ -Hydrocarbon Systems with PRMHV2-UNIFAC and PRMHV2-NRTL Models. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 655-663.	1.0	5
21	Calculation of the Phase Equilibrium of CO ₂ -Hydrocarbon Binary Mixtures by PR-BM EOS and PR EOS. <i>Transactions of Tianjin University</i> , 2019, 25, 540-548.	3.3	7
22	QSAR models for describing the toxicological effects of ILs against <i>Candida albicans</i> based on norm indexes. <i>Chemosphere</i> , 2018, 201, 417-424.	4.2	21
23	QSAR models for describing the toxicological effects of ILs against <i>Staphylococcus aureus</i> based on norm indexes. <i>Chemosphere</i> , 2018, 195, 831-838.	4.2	29
24	Experiment and correlation of the equilibrium interfacial tension for paraffin + CO ₂ modified with ethanol. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 206-212.	1.0	12
25	Pyrolysis oil polymerization of water-soluble fraction during accelerated aging. <i>Fuel</i> , 2018, 230, 368-375.	3.4	15
26	Measurement and correlation of the interfacial tension for paraffin+CO ₂ and (CO ₂ +N ₂) mixture gas at elevated temperatures and pressures. <i>Fluid Phase Equilibria</i> , 2017, 439, 18-23.	1.4	15
27	Description of the Thermal Conductivity $\hat{\lambda}(T, P)$ of Ionic Liquids Using the Structure-Property Relationship Method. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2466-2472.	1.0	22
28	Effect of zeolite solid acids on the in situ hydrogenation of bio-derived phenol. <i>Catalysis Communications</i> , 2017, 89, 111-116.	1.6	18
29	Effect of pyrolysis temperature on characteristics and aromatic contaminants adsorption behavior of magnetic biochar derived from pyrolysis oil distillation residue. <i>Bioresource Technology</i> , 2017, 223, 20-26.	4.8	117
30	Liquid-Liquid Equilibrium for the Ternary System of Methyl Laurate/Methyl Myristate + Ethanol + Glycerol at 318.15 and 333.15 K. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1868-1872.	1.0	5
31	Measurement and correlation of ternary vapor-liquid equilibria for methanol+ glycerol+ fatty acid methyl ester (methyl laurate, methyl myristate, methyl palmitate) systems at elevated temperatures and pressures. <i>Fluid Phase Equilibria</i> , 2016, 425, 15-20.	1.4	12
32	Liquid-phase catalytic hydrogenation of furfural in variable solvent media. <i>Transactions of Tianjin University</i> , 2016, 22, 202-210.	3.3	7
33	Thermogravimetric investigation of the co-combustion between the pyrolysis oil distillation residue and lignite. <i>Bioresource Technology</i> , 2016, 218, 615-622.	4.8	40
34	Experimental and computational study on the compatibility of biodiesel/diesel/methanol blended fuel. <i>Fuel</i> , 2016, 173, 52-59.	3.4	15
35	Upgrading fast pyrolysis oil: Solvent-anti-solvent extraction and blending with diesel. <i>Energy Conversion and Management</i> , 2016, 110, 378-385.	4.4	33
36	Isobaric vapor-liquid equilibrium for the three binary systems of C ₁₄ -C ₁₆ n-alkane+methyl myristate at 5.00kPa. <i>Fluid Phase Equilibria</i> , 2016, 408, 47-51.	1.4	4

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37	Ternary liquid-liquid equilibrium for systems of fatty acid methyl ester(methyl palmitate/methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 392-399.	3.3	2
38	Topological study on the toxicity of ionic liquids on <i>Vibrio fischeri</i> by the quantitative structureâ€“activity relationship method. <i>Journal of Hazardous Materials</i> , 2015, 286, 410-415.	6.5	46
39	Application of Topological Index in Predicting Ionic Liquids Densities by the Quantitative Structure Property Relationship Method. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 734-739.	1.0	30
40	Isobaric (vapour+liquid) equilibria of binary systems containing butyl acetate for the separation of methoxy aromatic compounds (anisole and guaiacol) from biomass fast pyrolysis oil. <i>Journal of Chemical Thermodynamics</i> , 2015, 87, 141-146.	1.0	13
41	Stability evaluation of fast pyrolysis oil from rice straw. <i>Chemical Engineering Science</i> , 2015, 135, 258-265.	1.9	23
42	Quantitative Structureâ€“Activity Relationship for High Affinity 5-HT_{1A} Receptor Ligands Based on Norm Indexes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15561-15567.	1.2	24
43	Liquidâ€“liquid equilibrium data for binary systems containing o-dichlorobenzene and nitrobenzene. <i>Fluid Phase Equilibria</i> , 2015, 385, 175-181.	1.4	9
44	Experiment and correlations for CO₂â€“oil minimum miscibility pressure in pure and impure CO₂ streams. <i>RSC Advances</i> , 2014, 4, 63824-63830.	1.7	12
45	Aqueous ionic liquids and deep eutectic solvents for cellulosic biomass pretreatment and saccharification. <i>RSC Advances</i> , 2014, 4, 10586.	1.7	151
46	Isobaric Vaporâ€“Liquid Equilibrium for the Binary System (Ethane-1,2-diol + Butan-1,2-diol) at (20, 30, and) Tj ETQq0 0 0 rgBT /Overlock 24	1.0	24
47	Reply to â€œComments on â€“Isobaric (vapour + liquid) equilibria for three binary systems (toluene +) Tj ETQq1 1 0.784314 rgBT /Overl 383, 193-196.	1.4	2
48	Quantitative structureâ€“toxicity relationship of the aquatic toxicity for various narcotic pollutants using the norm indexes. <i>Chemosphere</i> , 2014, 108, 383-387.	4.2	21
49	Isobaric (vapour+liquid) equilibria for three binary systems (toluene+anisole, n-butylbenzene+anisole,) Tj ETQq1 1 0,784314 rgBT /Ove 1.4	1.4	7
50	Measurement and correlation of critical properties for binary mixtures and ternary mixtures containing gasoline additives. <i>Journal of Chemical Thermodynamics</i> , 2014, 74, 161-168.	1.0	22
51	Predicting the surface tensions of ionic liquids by the quantitative structure property relationship method using a topological index. <i>Chemical Engineering Science</i> , 2013, 101, 266-270.	1.9	28
52	Predicting the melting points of ionic liquids by the Quantitative Structure Property Relationship method using a topological index. <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 196-200.	1.0	33
53	Predicting the glass transition temperature of ionic liquids by the quantitative structure property relationship method using a topological index. <i>Fluid Phase Equilibria</i> , 2013, 358, 166-171.	1.4	14
54	Densities and Viscosities of 1-butyl-3-methylimidazolium Hexafluorophosphate [bmim][PF6] + CO2 Binary System: Determination and Correlation. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 1284-1290.	1.7	6

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55	Measurement of critical temperatures and critical pressures for binary mixtures of methyl tert-butyl ether (MTBE)+alcohol and MTBE+alkane. Journal of Chemical Thermodynamics, 2013, 62, 111-117.	1.0	23
56	Isobaric vapor-liquid equilibrium for systems containing sulfur compounds. Fluid Phase Equilibria, 2013, 353, 87-92.	1.4	3
57	Predicting the Toxicity of Ionic Liquids in Leukemia Rat Cell Line by the Quantitative Structure-Activity Relationship Method Using Topological Indexes. Industrial & Engineering Chemistry Research, 2012, 51, 13897-13901.	1.8	40
58	(Liquid+liquid) equilibria for the ternary system of (N-formylmorpholine+ethylbenzene+2,2,4-trimethylpentane) at temperatures (303.15, 313.15, and 323.15) K. Fluid Phase Equilibria, 2012, 328, 25-30.	1.4	28
59	Predicting the Decomposition Temperature of Ionic Liquids by the Quantitative Structure-Property Relationship Method Using a New Topological Index. Journal of Chemical & Engineering Data, 2012, 57, 805-810.	1.0	38
60	Predicting Toxicity of Ionic Liquids in Acetylcholinesterase Enzyme by the Quantitative Structure-Activity Relationship Method Using Topological Indexes. Journal of Chemical & Engineering Data, 2012, 57, 2252-2257.	1.0	41
61	The study of factors affecting the enzymatic hydrolysis of cellulose after ionic liquid pretreatment. Carbohydrate Polymers, 2012, 87, 2019-2023.	5.1	100
62	Isobaric vapor-liquid equilibrium for four binary systems of thiophene. Fluid Phase Equilibria, 2012, 315, 84-90.	1.4	11
63	(Liquid+liquid) equilibrium for binary systems of N-formylmorpholine with alkanes. Journal of Chemical Thermodynamics, 2012, 47, 228-233.	1.0	10
64	A group contribution method to estimate the densities of ionic liquids. Journal of Chemical Thermodynamics, 2010, 42, 852-855.	1.0	63
65	Regenerating cellulose from ionic liquids for an accelerated enzymatic hydrolysis. Journal of Biotechnology, 2009, 139, 47-54.	1.9	423
66	Group Contribution Method for Predicting Melting Points of Imidazolium and Benzimidazolium Ionic Liquids. Industrial & Engineering Chemistry Research, 2009, 48, 2212-2217.	1.8	42
67	Vapor-Liquid Equilibrium of N-Formylmorpholine with Toluene and Xylene at 101.33 kPa. Journal of Chemical & Engineering Data, 2008, 53, 252-255.	1.0	60
68	Position Group Contribution Method for the Prediction of Critical Temperatures of Organic Compounds. Journal of Chemical & Engineering Data, 2008, 53, 1103-1109.	1.0	26
69	Use of ionic liquids as "green" solvents for extractions. Journal of Chemical Technology and Biotechnology, 2005, 80, 1089-1096.	1.6	780