

Guangren Yu

List of Publications by Year in descending order

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71
papers

3,538
citations

117625

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133252

59
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docs citations

71
times ranked

3362
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of hydrodynamic parameters and bubble characteristics in CO ₂ absorption column using pure ionic liquid and binary mixtures: Effect of porous sparger and operating conditions. <i>Chemical Engineering Science</i> , 2021, 229, 116041.	3.8	12
2	Separation of propylene and propane by functional mixture of imidazolium thiocyanate ionic liquid-organic solvent-cuprous salt. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, .	1.7	2
3	Stepped enhancement of CO ₂ adsorption and separation in IL-ZIF-8 composites with shell-interlayer-core structure. <i>AIChE Journal</i> , 2021, 67, e17112.	3.6	16
4	Glycolysis of polyethylene terephthalate: Magnetic nanoparticle CoFe ₂ O ₄ catalyst modified using ionic liquid as surfactant. <i>European Polymer Journal</i> , 2021, 155, 110590.	5.4	18
5	Fabrication of magnetic bimetallic Co-Zn based zeolitic imidazolate frameworks composites as catalyst of glycolysis of mixed plastic. <i>Fuel</i> , 2021, 304, 121397.	6.4	17
6	A coupled catalyst composed of CoFe ₂ O ₄ magnetic nanoparticle and [HMIM]Br-FeCl ₃ to intensify the oxidative desulfurization of FCC diesel. <i>Green Chemical Engineering</i> , 2021, 2, 441-449.	6.3	1
7	Recovery of ionic liquids from methanol by pervaporation with polydimethylsiloxane membrane. <i>Chemical Papers</i> , 2020, 74, 1331-1337.	2.2	3
8	Cluster Formation and Its Role in the Elimination of Azeotrope of the Acetone-Methanol Mixture by Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13271-13282.	3.7	8
9	Extractive denitrogenation of shale oil using imidazolium ionic liquids. <i>Green Energy and Environment</i> , 2020, 5, 173-182.	8.7	31
10	Novel ionic liquids phase change solvents for CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2020, 98, 103068.	4.6	25
11	Coupled Oxidation-Extraction Desulfurization: A Novel Evaluation for Diesel Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5660-5668.	6.7	40
12	Extractive desulfurization of gasoline using binary solvent of bronsted-based ionic liquids and non-volatile organic compound. <i>Chemical Papers</i> , 2019, 73, 2757-2765.	2.2	7
13	New absorbents for hydrogen sulfide: Deep eutectic solvents of tetrabutylammonium bromide/carboxylic acids and choline chloride/carboxylic acids. <i>Separation and Purification Technology</i> , 2019, 224, 281-289.	7.9	69
14	Numerical modeling for characterization of CO ₂ bubble formation through submerged orifice in ionic liquids. <i>Chemical Engineering Research and Design</i> , 2019, 146, 104-116.	5.6	8
15	Pretreatment of wheat straw using basic ethanolamine-based deep eutectic solvents for improving enzymatic hydrolysis. <i>Bioresource Technology</i> , 2018, 263, 325-333.	9.6	140
16	A combination desulfurization method for diesel fuel: Oxidation by ionic liquid with extraction by solvent. <i>Fuel</i> , 2018, 224, 545-551.	6.4	57
17	Hydrodynamic modeling of ionic liquids and conventional amine solvents in bubble column. <i>Chemical Engineering Research and Design</i> , 2018, 129, 356-375.	5.6	11
18	Insight into progress in pre-treatment of lignocellulosic biomass. <i>Energy</i> , 2017, 122, 724-745.	8.8	252

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19	Elimination of the azeotropic point of acetone and methanol by 1,3-dimethylimidazolium dimethylphosphate: an ab initio calculation study. <i>Journal of Molecular Modeling</i> , 2017, 23, 74.	1.8	4
20	Effect of impeller on sinking and floating behavior of suspending particle materials in stirred tank: A computational fluid dynamics and factorial design study. <i>Advanced Powder Technology</i> , 2017, 28, 1159-1169.	4.1	16
21	Determination of Vapor-Liquid Equilibrium of Methyl Acetate + Methanol + 1-Alkyl-3-methylimidazolium Dialkylphosphates at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 816-824.	1.9	21
22	A process simulation study of CO ₂ capture by ionic liquids. <i>International Journal of Greenhouse Gas Control</i> , 2017, 58, 223-231.	4.6	69
23	Effect of small amount of water on the dynamics properties and microstructures of ionic liquids. <i>AIChE Journal</i> , 2017, 63, 2248-2256.	3.6	48
24	Synthesis of polymeric ionic liquids material and application in CO ₂ adsorption. <i>Journal of Energy Chemistry</i> , 2017, 26, 909-918.	12.9	19
25	Cholinium amino acids-glycerol mixtures: New class of solvents for pretreating wheat straw to facilitate enzymatic hydrolysis. <i>Bioresource Technology</i> , 2017, 245, 625-632.	9.6	12
26	Separation of propylene and propane by functional mixture of imidazolium chloride ionic liquid and organic solvent-Cuprous salt. <i>Separation and Purification Technology</i> , 2017, 175, 177-184.	7.9	10
27	N-methyl-2-pyrrolidonium-based Brønsted-Lewis acidic ionic liquids as catalysts for the hydrolysis of cellulose. <i>Science China Chemistry</i> , 2016, 59, 564-570.	8.2	14
28	Extractive denitrogenation of fuel oils using ionic liquids: a review. <i>RSC Advances</i> , 2016, 6, 93932-93946.	3.6	61
29	Mutual solubility of acidic ionic liquid and model gasoline of n-octane+1-octene+toluene. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 69, 78-84.	5.3	9
30	Desulfurization of fuel oils: Mutual solubility of ionic liquids and fuel oil. <i>Fuel</i> , 2016, 173, 164-171.	6.4	54
31	Computational fluid dynamics study on mixing mode and power consumption in anaerobic mono- and co-digestion. <i>Bioresource Technology</i> , 2016, 203, 166-172.	9.6	61
32	CO ₂ absorption by binary mixture of ionic liquids-monoethanolamine at lower pressure. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 52-58.	4.6	21
33	Progress in the production of biomass-to-liquid biofuels to decarbonize the transport sector: prospects and challenges. <i>RSC Advances</i> , 2016, 6, 32140-32170.	3.6	62
34	Oxidative desulfurization of fuel oils using ionic liquids: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 62, 84-97.	5.3	148
35	Desulphurization of Fuel Oils Using Ionic Liquids. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016, , 254-284.	0.3	4
36	Oxidative Desulfurization of Gasoline by Ionic Liquids Coupled with Extraction by Organic Solvents. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	10

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37	Separation of propylene and propane by alkylimidazolium thiocyanate ionic liquids with Cu + salt. Separation and Purification Technology, 2015, 156, 356-362.	7.9	20
38	Using functional acidic ionic liquids as both extractant and catalyst in oxidative desulfurization of diesel fuel: An investigation of real feedstock. Fuel, 2015, 146, 6-12.	6.4	76
39	Isobaric Vapor-Liquid Equilibrium for Acetone + Methanol + Phosphate Ionic Liquids. Journal of Chemical & Engineering Data, 2015, 60, 612-620.	1.9	29
40	Brønsted-Lewis Acidic Ionic Liquids and Application in Oxidative Desulfurization of Diesel Fuel. Energy & Fuels, 2015, 29, 2998-3003.	5.1	80
41	Desulfurization of Fuel Oil: Conductor-like Screening Model for Real Solvents Study on Capacity of Ionic Liquids for Thiophene and Dibenzothiophene. Industrial & Engineering Chemistry Research, 2015, 54, 9421-9430.	3.7	43
42	Extractive Desulfurization of Fuel Oils with Dicyano(nitroso)methanide-based Ionic Liquids. Separation Science and Technology, 2015, 50, 1166-1174.	2.5	28
43	Synthesis of new crosslinked porous ammonium-based poly(ionic liquid) and application in CO ₂ adsorption. Polymer Engineering and Science, 2014, 54, 59-63.	3.1	35
44	A review of extractive desulfurization of fuel oils using ionic liquids. RSC Advances, 2014, 4, 35302-35317.	3.6	249
45	Extractive desulfurization and denitrogenation of fuels using functional acidic ionic liquids. Separation and Purification Technology, 2014, 133, 187-193.	7.9	148
46	Functional Solution Composed of Cu(I) Salt and Ionic Liquids to Separate Propylene from Propane. Industrial & Engineering Chemistry Research, 2014, 53, 13430-13435.	3.7	23
47	Pretreatment of <i>Miscanthus giganteus</i> using aqueous ammonia with hydrogen peroxide to increase enzymatic hydrolysis to sugars. Journal of Chemical Technology and Biotechnology, 2014, 89, 698-706.	3.2	28
48	Cu(I)-Based Ionic Liquids as Potential Absorbents to Separate Propylene and Propane. Separation Science and Technology, 2013, 48, 2317-2323.	2.5	16
49	Desulfurization of Real Fuel Oils by Extraction with Ionic Liquids. Separation Science and Technology, 2013, 48, 2582-2588.	2.5	19
50	Isobaric vapor-liquid equilibrium for methanol+dimethyl carbonate+phosphoric-based ionic liquids. Fluid Phase Equilibria, 2013, 352, 47-53.	2.5	44
51	High Solubilities of Small Hydrocarbons in Trihexyl Tetradecylphosphonium Bis(2,4,4-trimethylpentyl) Phosphinate. Journal of Physical Chemistry B, 2013, 117, 10534-10539.	2.6	45
52	QSPR study on the viscosity of bis(trifluoromethylsulfonyl)imide-based ionic liquids. Journal of Molecular Liquids, 2013, 184, 51-59.	4.9	33
53	Isobaric Vapor-Liquid Equilibrium for Methanol + Dimethyl Carbonate + 1-Butyl-3-methylimidazolium Dibutylphosphate. Journal of Chemical & Engineering Data, 2013, 58, 1186-1192.	1.9	33
54	Viscosity of ionic liquids: Database, observation, and quantitative structure-property relationship analysis. AIChE Journal, 2012, 58, 2885-2899.	3.6	235

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55	Deep oxidative desulfurization of diesel fuels by Lewis acidic ionic liquids based on 1-n-butyl-3-methylimidazolium metal chloride. <i>Journal of Molecular Catalysis A</i> , 2012, 359, 8-13.	4.8	114
56	Extractive denitrogenation of fuel oils with dicyanamide-based ionic liquids. <i>Green Chemistry</i> , 2011, 13, 3300.	9.0	74
57	SO ₂ Capture by Guanidinium-Based Ionic Liquids: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3466-3477.	2.6	63
58	Deep Desulfurization of Fuel Oils Using Low-Viscosity 1-Ethyl-3-methylimidazolium Dicyanamide Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2236-2244.	3.7	93
59	Deep Oxidative Desulfurization of Diesel Fuels by Acidic Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11690-11697.	3.7	75
60	Data and QSPR study for viscosity of imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2011, 300, 95-104.	2.5	67
61	Vaporization enthalpy and cluster species in gas phase of 1,1,3,3-tetramethylguanidinium-based ionic liquids from computer simulations. <i>AIChE Journal</i> , 2011, 57, 507-516.	3.6	15
62	Compressible gases transport through porous membrane: A modified dusty gas model. <i>Journal of Membrane Science</i> , 2011, 379, 200-206.	8.2	11
63	Molecular simulations of phosphonium-based ionic liquid. <i>Molecular Simulation</i> , 2010, 36, 79-86.	2.0	36
64	Extractive desulfurization of fuel oils with low-viscosity dicyanamide-based ionic liquids. <i>Green Chemistry</i> , 2010, 12, 2030.	9.0	123
65	Reduction/reoxidation of a multicomponent molybdate catalyst for propylene ammoxidation. <i>Thermochimica Acta</i> , 2009, 486, 20-26.	2.7	5
66	Intrinsic kinetics of reoxidation reaction for a multicomponent molybdate catalyst by thermal analysis method. <i>Catalysis Communications</i> , 2009, 10, 1066-1069.	3.3	1
67	Molecular Simulation of Guanidinium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5658-5668.	2.6	53
68	A Force Field for Molecular Simulation of Tetrabutylphosphonium Amino Acid Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7078-7084.	2.6	74
69	Structure, interaction and property of amino-functionalized imidazolium ILs by molecular dynamics simulation and Ab initio calculation. <i>AIChE Journal</i> , 2007, 53, 3210-3221.	3.6	86
70	Insight into the cation-anion interaction in 1,1,3,3-tetramethylguanidinium lactate ionic liquid. <i>Fluid Phase Equilibria</i> , 2007, 255, 86-92.	2.5	36
71	Design of Task-Specific Ionic Liquids for Capturing CO ₂ : A Molecular Orbital Study. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2875-2880.	3.7	68