

Babak Mokhtarani

List of Publications by Year in descending order

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72
papers

2,359
citations

186265
28
h-index

233421
45
g-index

72
all docs

72
docs citations

72
times ranked

2313
citing authors

#	ARTICLE	IF	CITATIONS
1	Density and viscosity of pyridinium-based ionic liquids and their binary mixtures with water at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 323-329.	2.0	175
2	Density and viscosity of 1-butyl-3-methylimidazolium nitrate with ethanol, 1-propanol, or 1-butanol at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1432-1438.	2.0	174
3	Study on removal of cadmium from wastewater by emulsion liquid membrane. <i>Journal of Hazardous Materials</i> , 2009, 165, 630-636.	12.4	111
4	Study on a new surfactant for removal of phenol from wastewater by emulsion liquid membrane. <i>Journal of Hazardous Materials</i> , 2008, 160, 582-588.	12.4	95
5	Densities, Refractive Indices, and Viscosities of the Ionic Liquids 1-Methyl-3-octylimidazolium Tetrafluoroborate and 1-Methyl-3-butylimidazolium Perchlorate and Their Binary Mixtures with Ethanol at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 677-682.	1.9	93
6	Deep and fast oxidative desulfurization of fuels using graphene oxide-based phosphotungstic acid catalysts. <i>Fuel</i> , 2019, 236, 717-729.	6.4	92
7	Partitioning of Ciprofloxacin in aqueous two-phase system of poly(ethylene glycol) and sodium sulphate. <i>Biochemical Engineering Journal</i> , 2008, 38, 241-247.	3.6	88
8	A review on removal of sulfur components from gasoline by pervaporation. <i>Chemical Engineering Research and Design</i> , 2012, 90, 409-432.	5.6	87
9	Study on removal of cadmium by hybrid liquid membrane process. <i>Journal of Hazardous Materials</i> , 2010, 177, 660-667.	12.4	54
10	(Vapour+liquid) equilibria of ternary systems with ionic liquids using headspace gas chromatography. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1036-1038.	2.0	51
11	The new experimental data and a new thermodynamic model based on group contribution for correlation liquid-liquid equilibria in aqueous two-phase systems of PEG and (K ₂ HPO ₄ or Na ₂ SO ₄). <i>Fluid Phase Equilibria</i> , 2004, 215, 151-161.	2.5	47
12	Antibacterial and anti-adhesive properties of ionic liquids with various cationic and anionic heads toward pathogenic bacteria. <i>Journal of Molecular Liquids</i> , 2016, 221, 685-690.	4.9	47
13	Oxidative Desulfurization of Diesel Fuel Using a Brønsted Acidic Ionic Liquid Supported on Silica Gel. <i>Energy & Fuels</i> , 2017, 31, 10196-10205.	5.1	45
14	Biosurfactants from probiotic bacteria: A review. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 768-783.	3.1	45
15	Deep extractive desulfurization of dibenzothiophene with imidazolium or pyridinium-based ionic liquids. <i>Chemical Engineering Research and Design</i> , 2016, 111, 323-331.	5.6	42
16	Ternary (liquid-liquid) equilibria of nitrate based ionic liquid+alkane+benzene at 298.15K: Experiments and correlation. <i>Fluid Phase Equilibria</i> , 2013, 341, 35-41.	2.5	40
17	Extractive-Catalytic Oxidative Desulfurization with Graphene Oxide-Based Heteropolyacid Catalysts: Investigation of Affective Parameters and Kinetic Modeling. <i>Catalysis Letters</i> , 2019, 149, 259-271.	2.6	40
18	Rhamnolipid biosurfactant adsorption on a plasma-treated polypropylene surface to induce antimicrobial and antiadhesive properties. <i>RSC Advances</i> , 2015, 5, 33089-33097.	3.6	39

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19	Densities and Viscosities of Pure 1-Methyl-3-octylimidazolium Nitrate and Its Binary Mixtures with Alcohols at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3901-3908.	1.9	38
20	Newly Antibacterial and Antiadhesive Lipopeptide Biosurfactant Secreted by a Probiotic Strain, <i>Propionibacterium Freudenreichii</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2725-2740.	2.9	37
21	Experimental Results and Thermodynamic Modeling of the Partitioning of Lysozyme, Bovine Serum Albumin, and α -Amylase in Aqueous Two-Phase Systems of PEG and (K ₂ HPO ₄ or Na ₂ SO ₄). <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1170-1177.	1.9	36
22	Liquid-liquid extraction of aromatics from their mixtures with alkanes using 1-methyl-3-octylimidazolium thiocyanate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2012, 54, 310-315.	2.0	36
23	Effect of electrokinetics on biodesulfurization of the model oil by <i>Rhodococcus erythropolis</i> PTCC1767 and <i>Bacillus subtilis</i> DSMZ 3256. <i>Journal of Hazardous Materials</i> , 2014, 280, 781-787.	12.4	34
24	On extension of UNIQUAC-NRF model to study the phase behavior of aqueous two phase polymer-salt systems. <i>Fluid Phase Equilibria</i> , 2001, 180, 139-149.	2.5	33
25	Preparation of supported catalyst by adsorption of polyoxometalate on graphene oxide/reduced graphene oxide. <i>Materials Chemistry and Physics</i> , 2017, 199, 424-434.	4.0	33
26	Novel liquid-liquid equilibrium data for six ternary systems containing IL, hydrocarbon and thiophene at 25°C. <i>Fluid Phase Equilibria</i> , 2016, 412, 21-28.	2.5	31
27	Antibacterial and antiadhesive properties of butyl-methylimidazolium ionic liquids toward pathogenic bacteria. <i>RSC Advances</i> , 2014, 4, 42751-42757.	3.6	30
28	Toxicity of various kinds of ionic liquids towards the cell growth and end product formation of the probiotic strain, <i>Propionibacterium freudenreichii</i> . <i>RSC Advances</i> , 2014, 4, 13153-13160.	3.6	30
29	Removal of thiophene from model diesel oil with nitrate based ionic liquids at several temperatures. <i>Journal of Molecular Liquids</i> , 2016, 221, 1104-1110.	4.9	28
30	Experimental study on CO ₂ sorption capacity of the neat and porous silica supported ionic liquids and the effect of water content of flue gas. <i>Journal of Molecular Liquids</i> , 2017, 232, 462-470.	4.9	28
31	Oxidative Desulfurization of Model Diesel Using Ionic Liquid 1-Octyl-3-methylimidazolium Hydrogen Sulfate: An Investigation of the Ultrasonic Irradiation Effect on Performance. <i>Energy & Fuels</i> , 2016, 30, 10909-10916.	5.1	27
32	Optimizing the combination of conventional carbonaceous additives of culture media to produce lignocellulose-degrading enzymes by <i>Trichoderma reesei</i> in solid state fermentation of agricultural residues. <i>Renewable Energy</i> , 2019, 131, 946-955.	8.9	27
33	Full scale performance of compost leachate treatment by biological anaerobic reactors. <i>Waste Management and Research</i> , 2012, 30, 524-529.	3.9	26
34	Phase Behavior of Nitrate Based Ionic Liquids with Thiophene and Alkanes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1256-1261.	3.7	26
35	Liquid-liquid equilibrium data for extractive desulfurization using 1-butyl-3-methyl imidazolium thiocyanate, n-alkane and thiophene. <i>Fluid Phase Equilibria</i> , 2018, 456, 109-115.	2.5	26
36	Pervaporative performance of polydimethylsiloxane-graphene/polyethersulfone hybrid membrane: Effects of graphene structure and surface properties. <i>Chemical Engineering Research and Design</i> , 2017, 124, 181-192.	5.6	25

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37	Partitioning of α -lactalbumin and β -lactoglobulin in aqueous two-phase systems of polyvinylpyrrolidone and potassium phosphate. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 721-726.	2.3	23
38	Direct introduction of amine groups into cellulosic paper for covalent immobilization of tyrosinase: support characterization and enzyme properties. <i>Cellulose</i> , 2017, 24, 1407-1416.	4.9	23
39	Systematic Measurements of CH_4 and CO_2 Adsorption Isotherms on Cation-Exchanged Zeolites 13X. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4412-4423.	1.9	23
40	Overproduction of rhamnolipid by fed-batch cultivation of <i>Pseudomonas aeruginosa</i> in a lab-scale fermenter under tight DO control. <i>Biodegradation</i> , 2019, 30, 59-69.	3.0	22
41	Experimental study on (vapor+liquid) equilibria of ternary systems of hydrocarbons/ionic liquid using headspace gas chromatography. <i>Journal of Chemical Thermodynamics</i> , 2012, 51, 77-81.	2.0	20
42	Solubility of carbon dioxide and methane in 1-hexyl-3-methylimidazolium nitrate ionic liquid, experimental and thermodynamic modeling. <i>Journal of Chemical Thermodynamics</i> , 2018, 122, 31-37.	2.0	20
43	Extraction of toluene from alkane using [Bmim][NO ₃] or [Omim][NO ₃] ionic liquid at 298.15K and atmospheric pressure. <i>Fluid Phase Equilibria</i> , 2014, 363, 41-47.	2.5	18
44	Experimental Study on the Solubility of Carbon Dioxide in Nitrate and Thiocyanate-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1262-1269.	1.9	18
45	Experimental Measurement for Adsorption of Ethylene and Ethane Gases on Copper-Exchanged Zeolites 13X and 5A. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 3920-3932.	1.9	18
46	Enhanced nitrogen adsorption capacity on Ca ²⁺ ion-exchanged hierarchical A^{X} zeolite. <i>Separation and Purification Technology</i> , 2021, 264, 118442.	7.9	18
47	[1-Ethyl-3-Methyl-Imidazolium][EthylSulfate]-based aqueous two phase systems: New experimental data and new modelling. <i>Journal of Chemical Thermodynamics</i> , 2013, 65, 83-90.	2.0	14
48	Vitamin B12 biosynthesis over waste frying sunflower oil as a cost effective and renewable substrate. <i>Journal of Food Science and Technology</i> , 2015, 52, 3273-82.	2.8	14
49	Physicochemical and thermodynamic characterization of lipopeptide biosurfactant secreted by <i>Bacillus tequilensis</i> HK01. <i>RSC Advances</i> , 2015, 5, 91836-91845.	3.6	14
50	Liquid-liquid extraction of toluene from alkane with pyridinium based ionic liquid ([BPy][NO ₃]) and Tj ETQq0 0 0 rgBT /Overlock 10 T 316-321.	2.0	14
51	Phase diagrams of aqueous biphasic systems composed of ionic liquids and dipotassium carbonate at different temperatures. <i>Fluid Phase Equilibria</i> , 2016, 415, 193-202.	2.5	14
52	Highly selective CO ₂ uptake in Calix[4]arene compounds immobilized on silica gel. <i>Chemical Engineering Journal</i> , 2021, 417, 128115.	12.7	14
53	The UNIFAC-NRF activity coefficient model based on group contribution for partitioning of proteins in aqueous two phase (polymer+salt) systems. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 289-295.	2.0	12
54	Liquid-liquid equilibria of aqueous biphasic systems of ionic liquids and dipotassium hydrogen phosphate at different temperatures: Experimental study and thermodynamic modeling. <i>Journal of Molecular Liquids</i> , 2016, 219, 95-103.	4.9	11

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55	Extraction of benzene from heptane with pyridinium based ionic liquid at (298.15, 308.15 and 318.15) K. <i>Fluid Phase Equilibria</i> , 2016, 411, 53-58.	2.5	11
56	Effect of the ionic liquid 1-butyl-3-methylimidazolium bromide as an additive on the formation of {polyethylene glycol+tri-potassium phosphate} aqueous biphasic systems: the role of polymer molecular weight. <i>Journal of Molecular Liquids</i> , 2016, 213, 235-246.	4.9	11
57	Liquid-Liquid Equilibria Data for Ethylbenzene or p-Xylene with Alkane and 1-Butylpyridinium Nitrate Ionic Liquid at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1068-1075.	1.9	10
58	Improving Physical Adsorption of CO ₂ by Ionic Liquids-Loaded Mesoporous Silica. <i>Chemical Engineering and Technology</i> , 2018, 41, 1272-1281.	1.5	10
59	Report: Future industrial solid waste management in Pars Special Economic Energy Zone (PSEEZ), Iran. <i>Waste Management and Research</i> , 2006, 24, 283-288.	3.9	9
60	Effect of 1-methyl 3-octylimidazolium thiocyanate on vapor-liquid equilibria of binary mixtures of hydrocarbons. <i>Fluid Phase Equilibria</i> , 2012, 334, 65-69.	2.5	9
61	[1-Ethyl-2,3-dimethyl-imidazolium][ethylsulfate]-based aqueous two phase systems: New experimental data and modeling. <i>Fluid Phase Equilibria</i> , 2014, 382, 212-218.	2.5	9
62	Experimental study on liquid-liquid equilibria of ionic liquids+alkane+ethyl benzene or p-xylene at 298.15K. <i>Fluid Phase Equilibria</i> , 2016, 409, 7-11.	2.5	9
63	Absorption of carbon dioxide in emulsions of aqueous monoethanolamine/diethanolamine solutions in kerosene/n-heptane. <i>Chemical Engineering Science</i> , 2012, 82, 44-51.	3.8	8
64	Numerical investigation of multiphase flow in supersonic separator considering inner body effect. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2380.	1.5	8
65	Overproduction of lipopeptide biosurfactant by <i>Aneurinibacillus thermoaerophilus</i> HAK01 in various fed-batch modes under thermophilic conditions. <i>RSC Advances</i> , 2019, 9, 30419-30427.	3.6	8
66	Experimental Study of Carbon Dioxide Solubility in Aqueous N-Methyldiethanolamine Solution with 1-Butylpyridinium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2135-2150.	1.9	7
67	Equilibrium solubility measurement of carbon dioxide in hybrid solvents of aqueous N-methyldiethanolamine blended with 1-Methyl-3-octyl-imidazolium tetrafluoroborate ionic liquid at high pressures. <i>Journal of Molecular Liquids</i> , 2021, 337, 116571.	4.9	7
68	Vapor Liquid Equilibria for Ionic Liquid/Ethanol/Water Systems and the Effect of Anion Hydrolysis. <i>Chemical Engineering and Technology</i> , 2020, 43, 2277-2285.	1.5	5
69	Experimental Study of Vapor-Liquid Equilibrium Data for Acetone+Methanol+1-Methyl-3-octylimidazolium Thiocyanate. <i>Journal of Solution Chemistry</i> , 2018, 47, 4 2007-2020.		
70	Acid Gas Removal by Superhigh Silica ZSM-5: Adsorption Isotherms of Hydrogen Sulfide, Carbon Dioxide, Methane, and Nitrogen. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6600-6610.	3.7	4
71	Miniplant-Scale Demonstration of Ethylene Adsorption Separation in Downstream of an Oxidative Coupling of Methane Process. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 11778-11788.	3.7	2
72	Removal of water nitrate using modified Purolite A520E resin, synthesis and experimental design. <i>Materials Chemistry and Physics</i> , 2022, 285, 126098.	4.0	2