

Bobo Cao

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

489
citations

623734

14
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713466

21
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21
all docs

21
docs citations

21
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient CO_2 capture by simple and low-cost deep eutectic solvents. <i>Green Chemistry</i> , 2016, 18, 2522-2527.	9.0	56
2	Carbon dioxide capture by amino-functionalized ionic liquids: DFT based theoretical analysis substantiated by FT-IR investigation. <i>RSC Advances</i> , 2016, 6, 10462-10470.	3.6	49
3	Cellobiose as a model system to reveal cellulose dissolution mechanism in acetate-based ionic liquids: Density functional theory study substantiated by NMR spectra. <i>Carbohydrate Polymers</i> , 2016, 149, 348-356.	10.2	42
4	Fluorinated graphene as an anticancer nanocarrier: an experimental and DFT study. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2769-2777.	5.8	38
5	Structural Properties and Hydrogen-Bonding Interactions in Binary Mixtures Containing a Deep-Eutectic Solvent and Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1229-1239.	2.6	36
6	DFT study on the dissolution mechanisms of β -cyclodextrin and chitobiose in ionic liquid. <i>Carbohydrate Polymers</i> , 2017, 169, 227-235.	10.2	35
7	Influence of Hydration on the Structure and Interactions of Ethaline Deep Eutectic Solvent: A Spectroscopic and Computational Study. <i>ChemPhysChem</i> , 2020, 21, 995-1005.	2.1	30
8	Experiment and DFT studies on radioiodine removal and storage mechanism by imidazolium-based ionic liquid. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 64, 51-59.	2.4	27
9	Preparation and Properties of $\text{C}_n\text{-X}$ (X: O, N, S) Based Distillable Ionic Liquids and Their Application for Rare Earth Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6258-6262.	6.7	24
10	Effect of Imidazolium-Based Ionic Liquids on the Structure and Phase Behavior of Palmitoyl-oleoyl-phosphatidylethanolamine. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5474-5482.	2.6	21
11	Theoretical and experimental studies on proton transfer in acetate-based protic ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 221, 254-261.	4.9	20
12	A DFT study on the absorption mechanism of vinyl chloride by ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 215, 496-502.	4.9	18
13	Low Temperature Electrochemical Deposition of Aluminum in Organic Bases/Thiourea-Based Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15480-15486.	6.7	18
14	The distinct effects of two imidazolium-based ionic liquids, $[\text{C}_4\text{mim}][\text{OAc}]$ and $[\text{C}_6\text{mim}][\text{OAc}]$, on the phase behaviours of DPPC. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17888-17893.	2.8	17
15	Heterogeneous Nb-containing catalyst/ <i>N,N</i> -dimethylacetamide "salt mixtures: novel and efficient catalytic systems for the dehydration of fructose. <i>RSC Advances</i> , 2016, 6, 64338-64343.	3.6	13
16	Theoretical study on the alkylation of <i>o</i> -xylene with styrene in AlCl_3 -ionic liquid catalytic system. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 74, 8-15.	2.4	13
17	Theoretical and experimental investigation on the capture of H_2S in a series of ionic liquids. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 68, 87-94.	2.4	9
18	Transition Mechanism from Nonlamellar to Well-Ordered Lamellar Phases: Is the Lamellar Liquid-Crystal Phase a Must?. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4484-4489.	4.6	9

#	ARTICLE	IF	CITATIONS
19	Thermal reaction of the ionic liquid 1,2-dimethyl-(3-aminoethyl) imidazolium tetrafluoroborate: a kinetic and theoretical study. <i>Journal of Molecular Modeling</i> , 2016, 22, 138.	1.8	6
20	Reversibility of imido-based ionic liquids: a theoretical and experimental study. <i>RSC Advances</i> , 2017, 7, 11259-11270.	3.6	6
21	Green synthesis of 1-phenyl-1-ortho-xylene ethane in IL and reaction mechanism. <i>RSC Advances</i> , 2017, 7, 14998-15004.	3.6	2