

Kallidanthiyil Chellappan Lethesh

List of Publications by Year in descending order

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49
papers

1,082
citations

331259

21
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433756

31
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docs citations

49
times ranked

1150
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction of naphthenic acid from highly acidic oil using phenolate based ionic liquids. <i>Chemical Engineering Journal</i> , 2016, 284, 487-493.	6.6	62
2	Extraction of Naphthenic Acid from Highly Acidic Oil Using Hydroxide-Based Ionic Liquids. <i>Energy & Fuels</i> , 2015, 29, 106-111.	2.5	61
3	Nitrile-Functionalized Pyridinium, Pyrrolidinium, and Piperidinium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8424-8438.	1.2	58
4	Synthesis, Characterization, and Thermophysical Properties of 1,8-Diazobicyclo[5.4.0]undec-7-ene Based Thiocyanate Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1788-1795.	1.0	57
5	Dual functionalized imidazolium ionic liquids as a green solvent for extractive desulfurization of fuel oil: Toxicology and mechanistic studies. <i>Journal of Cleaner Production</i> , 2019, 213, 989-998.	4.6	50
6	Fuel oil desulfurization with dual functionalized imidazolium based ionic liquids. <i>Separation and Purification Technology</i> , 2020, 248, 116959.	3.9	50
7	Extractive desulfurization of model fuel oil using ester functionalized imidazolium ionic liquids. <i>Separation and Purification Technology</i> , 2018, 196, 115-123.	3.9	47
8	Highly efficient cellulose dissolution by alkaline ionic liquids. <i>Carbohydrate Polymers</i> , 2020, 229, 115594.	5.1	44
9	Extraction and recovery of toxic acidic components from highly acidic oil using ionic liquids. <i>Fuel</i> , 2016, 181, 579-586.	3.4	35
10	Rapid, comprehensive screening of ionic liquids towards sustainable applications. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2798-2808.	2.5	35
11	Base stable quaternary ammonium ionic liquids. <i>RSC Advances</i> , 2014, 4, 4472-4477.	1.7	33
12	Mercury capture from natural gas by carbon supported ionic liquids: Synthesis, evaluation and molecular mechanism. <i>Fuel</i> , 2016, 177, 296-303.	3.4	30
13	Synthesis, characterization, physical and thermodynamic properties of diazobicyclo undecene based dicyanamide ionic liquids. <i>Journal of Molecular Liquids</i> , 2015, 208, 253-258.	2.3	28
14	Evaluation of Thermophysical Properties of Imidazolium-Based Phenolate Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3697-3705.	1.8	28
15	Thermodynamic modelling of liquid-liquid extraction of naphthenic acid from dodecane using imidazolium based phenolate ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 219, 513-525.	2.3	28
16	Physicochemical and thermodynamic properties of imidazolium ionic liquids with nitrile and ether dual functional groups. <i>Journal of Molecular Liquids</i> , 2017, 225, 281-289.	2.3	28
17	Physicochemical Properties of New Imidazolium-Based Ionic Liquids Containing Aromatic Group. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2020-2026.	1.0	27
18	Effect of ethanedioic acid functionalization on Ni/Al ₂ O ₃ catalytic hydrodeoxygenation and isomerization of octadec-9-enoic acid into biofuel: kinetics and Arrhenius parameters. <i>Journal of Energy Chemistry</i> , 2016, 25, 158-168.	7.1	25

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19	Using tunability of ionic liquids to remove methylene blue from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2327-2332.	3.3	24
20	New dual functionalized zwitterions and ionic liquids; Synthesis and cellulose dissolution studies. <i>Journal of Molecular Liquids</i> , 2019, 292, 111353.	2.3	24
21	Experimental and theoretical study on extraction and recovery of naphthenic acid using dicyanamide-based ionic liquids. <i>Separation and Purification Technology</i> , 2019, 213, 199-212.	3.9	24
22	Phenolate platform for anion exchange in ionic liquids. <i>RSC Advances</i> , 2012, 2, 11936.	1.7	23
23	A facile method for the synthesis of nicotinonitriles from ketones via a one-pot chloromethyleneiminium salt mediated three-component reaction. <i>Tetrahedron Letters</i> , 2007, 48, 5641-5643.	0.7	19
24	De-acidification of crude oil using supported ionic liquids phases. <i>Separation and Purification Technology</i> , 2018, 196, 96-105.	3.9	19
25	Enhancement of π - π aromatic interactions between hydrophobic Ionic Liquids and Methylene Blue for an optimum removal efficiency and assessment of toxicity by microbiological method. <i>Journal of Cleaner Production</i> , 2016, 137, 1149-1157.	4.6	18
26	In silico prediction and experimental verification of ionic liquid refractive indices. <i>Journal of Molecular Liquids</i> , 2018, 264, 563-570.	2.3	17
27	Prospects and Design Insights of Neat Ionic Liquids as Supercapacitor Electrolytes. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	17
28	Stability and Performance of Physically Immobilized Ionic Liquids for Mercury Adsorption from a Gas Stream. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12114-12123.	1.8	16
29	Hydroxyl Functionalized Pyridinium Ionic Liquids: Experimental and Theoretical Study on Physicochemical and Electrochemical Properties. <i>Frontiers in Chemistry</i> , 2019, 7, 625.	1.8	16
30	Simple methods to synthesize 2-pyridones: reactions of 2-aryl-3,3-bis(alkylsulfanyl)acrylaldehydes and cyanoacetamide. <i>Tetrahedron</i> , 2008, 64, 1671-1675.	1.0	15
31	Electrical conductivity and glass formation in nitrile-functionalized pyrrolidinium bis(trifluoromethylsulfonyl)imide ionic liquids: chain length and odd-even effects of the alkyl spacer between the pyrrolidinium ring and the nitrile group. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10548.	1.3	15
32	Extraction and Recovery of Naphthenic Acid from Acidic Oil Using Supported Ionic Liquid Phases (SILPs). <i>Chemical Product and Process Modeling</i> , 2015, 10, 221-228.	0.5	15
33	The Ionic Liquid Property Explorer: An Extensive Library of Task-Specific Solvents. <i>Data</i> , 2019, 4, 88.	1.2	15
34	Liquid-Liquid Extraction of Naphthenic Acid Using Thiocyanate Based Ionic Liquids. <i>Procedia Engineering</i> , 2016, 148, 662-670.	1.2	13
35	Non-Nucleophilic Electrolyte Based on Ionic Liquid and Magnesium Bis(diisopropyl)amide for Rechargeable Magnesium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 9585-9593.	2.5	10
36	Establishing Predictive Models for Solvatochromic Parameters of Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019, 7, 605.	1.8	9

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37	Temperature-Dependent Electrochemical Stability Window of Bis(trifluoromethanesulfonyl)imide and Bis(fluorosulfonyl)imide Anion Based Ionic Liquids. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	8
38	Nitrile-functionalized azepanium ionic liquids: Synthesis characterization and thermophysical properties. <i>Journal of Molecular Liquids</i> , 2016, 221, 1140-1144.	2.3	7
39	Synthesis and Characterization of Nitrile-functionalized Azepanium Ionic Liquids for the Dissolution of Cellulose. <i>Procedia Engineering</i> , 2016, 148, 385-391.	1.2	6
40	Azepanium based protic ionic liquids: Synthesis, thermophysical properties and COSMO-RS study. <i>Journal of Molecular Liquids</i> , 2018, 264, 24-31.	2.3	6
41	An Open Access Data Set Highlighting Aggregation of Dyes on Metal Oxides. <i>Data</i> , 2020, 5, 45.	1.2	5
42	Synthesis of magnesium complexes of ionic liquids with highly coordinating anions. <i>Dalton Transactions</i> , 2019, 48, 982-988.	1.6	4
43	CHAPTER 5. Anode Materials for Rechargeable Mg Batteries. <i>RSC Energy and Environment Series</i> , 2019, , 114-141.	0.2	4
44	Separation of Naphthenic Acid Using Hydroxide Based Ionic Liquids. <i>Applied Mechanics and Materials</i> , 0, 625, 570-573.	0.2	3
45	Extractive Desulphurization of Model Oil Using Sulphonium Based Ionic Liquids. <i>Applied Mechanics and Materials</i> , 0, 625, 205-208.	0.2	2
46	Synthesis and characterization of new class of ionic liquids containing phenolate anion. , 2014, , .		1
47	Synthesis and application of dual functionalized task specific ionic liquid for bamboo dissolution. <i>MATEC Web of Conferences</i> , 2017, 111, 03002.	0.1	1
48	An easy, green and ultra-fast synthesis of dicationic ionic liquids: From days to minutes. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
49	Salt-solvent mixtures (SSMs): Investigation of physicochemical, thermodynamic and electrochemical properties of multifunctional imidazolium ionic liquids with DMSO. <i>Journal of Molecular Liquids</i> , 2021, 327, 114841.	2.3	0