Kallidanthiyil Chellappan Lethesh

List of Publications by Year
in descending order

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49 papers	1,082 citations	331259 21 h-index	433756 31 g-index
49 all docs	49 docs citations	49 times ranked	1150 citing authors

#	ARTICLE	IF	CITATIONS
1	Salt-solvent mixtures (SSMs): Investigation of physiochemical, thermodynamic and electrochemical properties of multifunctional imidazolium ionic liquids with DMSO. Journal of Molecular Liquids, 2021, 327, 114841.	2.3	0
2	Prospects and Design Insights of Neat Ionic Liquids as Supercapacitor Electrolytes. Frontiers in Energy Research, 2021, 9, .	1.2	17
3	Highly efficient cellulose dissolution by alkaline ionic liquids. Carbohydrate Polymers, 2020, 229, 115594.	5.1	44
4	Non-Nucleophilic Electrolyte Based on Ionic Liquid and Magnesium Bis(diisopropyl)amide for Rechargeable Magnesium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 9585-9593.	2.5	10
5	An Open Access Data Set Highlighting Aggregation of Dyes on Metal Oxides. Data, 2020, 5, 45.	1.2	5
6	Fuel oil desulfurization with dual functionalized imidazolium based ionic liquids. Separation and Purification Technology, 2020, 248, 116959.	3.9	50
7	Rapid, comprehensive screening of ionic liquids towards sustainable applications. Sustainable Energy and Fuels, 2019, 3, 2798-2808.	2.5	35
8	New dual functionalized zwitterions and ionic liquids; Synthesis and cellulose dissolution studies. Journal of Molecular Liquids, 2019, 292, 111353.	2.3	24
9	The Ionic Liquid Property Explorer: An Extensive Library of Task-Specific Solvents. Data, 2019, 4, 88.	1.2	15
10	Hydroxyl Functionalized Pyridinium Ionic Liquids: Experimental and Theoretical Study on Physicochemical and Electrochemical Properties. Frontiers in Chemistry, 2019, 7, 625.	1.8	16
11	Establishing Predictive Models for Solvatochromic Parameters of Ionic Liquids. Frontiers in Chemistry, 2019, 7, 605.	1.8	9
12	Synthesis of magnesium complexes of ionic liquids with highly coordinating anions. Dalton Transactions, 2019, 48, 982-988.	1.6	4
13	Dual functionalized imidazolium ionic liquids as a green solvent for extractive desulfurization of fuel oil: Toxicology and mechanistic studies. Journal of Cleaner Production, 2019, 213, 989-998.	4.6	50
14	Experimental and theoretical study on extraction and recovery of naphthenic acid using dicyanamide-based ionic liquids. Separation and Purification Technology, 2019, 213, 199-212.	3.9	24
15	CHAPTER 5. Anode Materials for Rechargeable Mg Batteries. RSC Energy and Environment Series, 2019, , 114-141.	0.2	4
16	De-acidification of crude oil using supported ionic liquids phases. Separation and Purification Technology, 2018, 196, 96-105.	3.9	19
17	Extractive desulfurization of model fuel oil using ester functionalized imidazolium ionic liquids. Separation and Purification Technology, 2018, 196, 115-123.	3.9	47
18	In silico prediction and experimental verification of ionic liquid refractive indices. Journal of Molecular Liquids, 2018, 264, 563-570.	2.3	17

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19	Azepanium based protic ionic liquids: Synthesis, thermophysical properties and COSMO-RS study. Journal of Molecular Liquids, 2018, 264, 24-31.	2.3	6
20	Physicochemical and thermodynamic properties of imidazolium ionic liquids with nitrile and ether dual functional groups. Journal of Molecular Liquids, 2017, 225, 281-289.	2.3	28
21	Synthesis and application of dual functionalized task specific ionic liquid for bamboo dissolution. MATEC Web of Conferences, 2017, 111, 03002.	0.1	1
22	An easy, green and ultra-fast synthesis of dicationic ionic liquids: From days to minutes. AIP Conference Proceedings, 2016, , .	0.3	0
23	Using tunability of ionic liquids to remove methylene blue from aqueous solution. Journal of Environmental Chemical Engineering, 2016, 4, 2327-2332.	3.3	24
24	Thermodynamic modelling of liquid-liquid extraction of naphthenic acid from dodecane using imidazolium based phenolate ionic liquids. Journal of Molecular Liquids, 2016, 219, 513-525.	2.3	28
25	Extraction and recovery of toxic acidic components from highly acidic oil using ionic liquids. Fuel, 2016, 181, 579-586.	3.4	35
26	Synthesis and Characterization of Nitrile-functionalized Azepanium Ionic Liquids for the Dissolution of Cellulose. Procedia Engineering, 2016, 148, 385-391.	1.2	6
27	Enhancement of Ï€â€“Ï€ aromatic interactions between hydrophobic Ionic Liquids and Methylene Blue for an optimum removal efficiency and assessment of toxicity by microbiological method. Journal of Cleaner Production, 2016, 137, 1149-1157.	4.6	18
28	Nitrile-functionalized azepanium ionic liquids: Synthesis characterization and thermophysical properties. Journal of Molecular Liquids, 2016, 221, 1140-1144.	2.3	7
29	Liquid-Liquid Extraction of Naphthenic Acid Using Thiocyanate Based Ionic Liquids. Procedia Engineering, 2016, 148, 662-670.	1.2	13
30	Physicochemical Properties of New Imidazolium-Based Ionic Liquids Containing Aromatic Group. Journal of Chemical & Engineering Data, 2016, 61, 2020-2026.	1.0	27
31	Mercury capture from natural gas by carbon supported ionic liquids: Synthesis, evaluation and molecular mechanism. Fuel, 2016, 177, 296-303.	3.4	30
32	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. Journal of Energy Chemistry, 2016, 25, 158-168.	7.1	25
33	Extraction of naphthenic acid from highly acidic oil using phenolate based ionic liquids. Chemical Engineering Journal, 2016, 284, 487-493.	6.6	62
34	Stability and Performance of Physically Immobilized Ionic Liquids for Mercury Adsorption from a Gas Stream. Industrial & Engineering Chemistry Research, 2015, 54, 12114-12123.	1.8	16
35	Extraction of Naphthenic Acid from Highly Acidic Oil Using Hydroxide-Based Ionic Liquids. Energy & Fuels, 2015, 29, 106-111.	2.5	61
36	Synthesis, characterization, physical and thermodynamic properties of diazobicyclo undecene based dicyanamide ionic liquids. Journal of Molecular Liquids, 2015, 208, 253-258.	2.3	28

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37	Evaluation of Thermophysical Properties of Imidazolium-Based Phenolate Ionic Liquids. Industrial & Engineering Chemistry Research, 2015, 54, 3697-3705.	1.8	28
38	Extraction and Recovery of Naphthenic Acid from Acidic Oil Using Supported Ionic Liquid Phases (SILPs). Chemical Product and Process Modeling, 2015, 10, 221-228.	0.5	15
39	Base stable quaternary ammonium ionic liquids. RSC Advances, 2014, 4, 4472-4477.	1.7	33
40	Electrical conductivity and glass formation in nitrile-functionalized pyrrolidinium bis(trifluoromethylsulfonyl)imide ionic liquids: chain length and oddâ€“even effects of the alkyl spacer between the pyrrolidinium ring and the nitrile group. Physical Chemistry Chemical Physics, 2014, 16, 10548.	1.3	15
41	Synthesis, Characterization, and Thermophysical Properties of 1,8-Diazobicyclo[5.4.0]undec-7-ene Based Thiocyanate Ionic Liquids. Journal of Chemical & Engineering Data, 2014, 59, 1788-1795.	1.0	57
42	Synthesis and characterization of new class of ionic liquids containing phenolate anion. , 2014, , .		1
43	Phenolate platform for anion exchange in ionic liquids. RSC Advances, 2012, 2, 11936.	1.7	23
44	Nitrile-Functionalized Pyridinium, Pyrrolidinium, and Piperidinium Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 8424-8438.	1.2	58
45	Simple methods to synthesize 2-pyridones: reactions of 2-aroyl-3,3-bis(alkylsulfanyl)acrylaldehydes and cyanoacetamide. Tetrahedron, 2008, 64, 1671-1675.	1.0	15
46	A facile method for the synthesis of nicotinonitriles from ketones via a one-pot chloromethyleneiminium salt mediated three-component reaction. Tetrahedron Letters, 2007, 48, 5641-5643.	0.7	19
47	Separation of Naphthenic Acid Using Hydroxide Based Ionic Liquids. Applied Mechanics and Materials, 0, 625, 570-573.	0.2	3
48	Extractive Desulphurization of Model Oil Using Sulphonium Based Ionic Liquids. Applied Mechanics and Materials, 0, 625, 205-208.	0.2	2
49	Temperature-Dependent Electrochemical Stability Window of Bis(trifluoromethanesulfonyl)imide and Bis(fluorosulfonyl)imide Anion Based Ionic Liquids. Frontiers in Chemistry, 0, 10, .	1.8	8