

Vijayaraghavan Ranganathan

List of Publications by Year in descending order

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52
papers

2,308
citations

218677

26
h-index

206112

48
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58
all docs

58
docs citations

58
times ranked

3013
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactives from fruit processing wastes: Green approaches to valuable chemicals. <i>Food Chemistry</i> , 2017, 225, 10-22.	8.2	338
2	Dissolution of feather keratin in ionic liquids. <i>Green Chemistry</i> , 2013, 15, 525.	9.0	158
3	Dissolution and regeneration of wool keratin in ionic liquids. <i>Green Chemistry</i> , 2014, 16, 2857-2864.	9.0	156
4	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin as Ionic Liquid Polymer Electrolyte. <i>ACS Energy Letters</i> , 2017, 2, 831-836.	17.4	134
5	Extraction and recovery of azo dyes into an ionic liquid. <i>Talanta</i> , 2006, 69, 1059-1062.	5.5	103
6	New dimensions in salt-solvent mixtures: a 4th evolution of ionic liquids. <i>Faraday Discussions</i> , 2017, 206, 9-28.	3.2	96
7	Living cationic polymerisation of styrene in an ionic liquid Electronic supplementary information (ESI) available: GPC results for the two-step living polymerisation of styrene by HBOB in the IL. See http://www.rsc.org/suppdata/cc/b3/b315100j . <i>Chemical Communications</i> , 2004, , 700.	4.1	95
8	Distillable ionic liquid extraction of tannins from plant materials. <i>Green Chemistry</i> , 2010, 12, 1023.	9.0	92
9	Distillable Protic Ionic Liquids for Keratin Dissolution and Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1888-1894.	6.7	89
10	Biocompatibility of choline salts as crosslinking agents for collagen based biomaterials. <i>Chemical Communications</i> , 2010, 46, 294-296.	4.1	87
11	Spectroscopic investigations of polyacrylonitrile thermal degradation. <i>Journal of Polymer Science Part A</i> , 1998, 36, 2503-2512.	2.3	66
12	Green, Aqueous Two-Phase Systems Based on Cholinium Aminoate Ionic Liquids with Tunable Hydrophobicity and Charge Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3291-3298.	6.7	64
13	Organoborate Acids as Initiators for Cationic Polymerization of Styrene in an Ionic Liquid Medium. <i>Macromolecules</i> , 2007, 40, 6515-6520.	4.8	55
14	Protic ionic liquids based on phosphonium cations: comparison with ammonium analogues. <i>Chemical Communications</i> , 2011, 47, 11612.	4.1	55
15	High CO ₂ absorption by diamino protic ionic liquids using azolide anions. <i>Chemical Communications</i> , 2018, 54, 2106-2109.	4.1	48
16	Mechanisms of low temperature capture and regeneration of CO ₂ using diamino protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1140-1149.	2.8	42
17	Exothermic and thermal runaway behaviour of some ionic liquids at elevated temperatures. <i>Chemical Communications</i> , 2009, , 6297.	4.1	38
18	Plastic crystal phases with high proton conductivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 2965-2974.	6.7	38

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19	An organic ionic plastic crystal electrolyte based on the triflate anion exhibiting high proton transport. <i>Chemical Communications</i> , 2011, 47, 6401.	4.1	35
20	Protic plastic crystal/PVDF composite membranes for Proton Exchange Membrane Fuel Cells under non-humidified conditions. <i>Electrochimica Acta</i> , 2017, 247, 970-976.	5.2	33
21	Ionic Liquids as Moderators in Exothermic Polymerization Reactions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5363-5366.	13.8	31
22	Enhanced CO ₂ uptake by intramolecular proton transfer reactions in amino-functionalized pyridine-based ILs. <i>Chemical Communications</i> , 2017, 53, 5950-5953.	4.1	31
23	Base-rich diamino protic ionic liquid mixtures for enhanced CO ₂ capture. <i>Separation and Purification Technology</i> , 2018, 196, 27-31.	7.9	30
24	Extraction and crosslinking of bromelain aggregates for improved stability and reusability from pineapple processing waste. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 318-326.	7.5	30
25	Probing the specific ion effects of biocompatible hydrated choline ionic liquids on lactate oxidase biofunctionality in sensor applications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1841-1849.	2.8	29
26	Pyrazolium Phase-Change Materials for Solar Thermal Energy Storage. <i>ChemSusChem</i> , 2020, 13, 159-164.	6.8	29
27	CO ₂ -Based Alkyl Carbamate Ionic Liquids as Distillable Extraction Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1724-1728.	6.7	26
28	Choline ionic liquid enhances the stability of Herceptin® (trastuzumab). <i>Chemical Communications</i> , 2018, 54, 10622-10625.	4.1	26
29	Role of Hydrogen Bonding in Phase Change Materials. <i>Crystal Growth and Design</i> , 2020, 20, 1285-1291.	3.0	24
30	Aqueous ionic liquid solutions as alternatives for sulphide-free leather processing. <i>Green Chemistry</i> , 2015, 17, 1001-1007.	9.0	23
31	Enhancement of "dry" proton conductivity by self-assembled nanochannels in all-solid polyelectrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7615-7623.	10.3	21
32	Environmentally Benign and Recyclable Aqueous Two-Phase System Composed of Distillable CO ₂ -Based Alkyl Carbamate Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10344-10354.	6.7	19
33	Inhibited fragmentation of mAbs in buffered ionic liquids. <i>Chemical Communications</i> , 2015, 51, 8089-8092.	4.1	18
34	Protic organic ionic plastic crystals based on a difunctional cation and the triflate anion: a new solid-state proton conductor. <i>Chemical Communications</i> , 2016, 52, 14097-14100.	4.1	17
35	Integrated Biorefinery Strategy for Valorization of Pineapple Processing Waste into High-Value Products. <i>Waste and Biomass Valorization</i> , 2022, 13, 631-643.	3.4	15
36	Direct ionic liquid extractant injection for volatile chemical analysis "a gas chromatography sampling technique. <i>Green Chemistry</i> , 2015, 17, 573-581.	9.0	14

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37	Guanidinium Organic Salts as Phase-Change Materials for Renewable Energy Storage. <i>ChemSusChem</i> , 2021, 14, 2757-2762.	6.8	14
38	Novel acid initiators for the rapid cationic polymerization of styrene in room temperature ionic liquids. <i>Science China Chemistry</i> , 2012, 55, 1671-1676.	8.2	13
39	Role of choline formate ionic liquid in the polymerization of vinyl and methacrylic monomers. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3733-3739.	2.6	10
40	Enhanced enzymatic degradation resistance of plasmid DNA in ionic liquids. <i>RSC Advances</i> , 2015, 5, 43839-43844.	3.6	10
41	Influence of Electrospun Poly(vinylidene difluoride) Nanofiber Matrix on the Ion Dynamics of a Protic Organic Ionic Plastic Crystal. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14546-14553.	3.1	10
42	The influence of anion chemistry on the ionic conductivity and molecular dynamics in protic organic ionic plastic crystals. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4579-4586.	2.8	7
43	Studies on Synthesis and Characterization of Charge Transfer Polymerization of Styrene and Alkyl Methacrylates. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 1057-1080.	2.2	6
44	Adiabatic Calorimetry of Telomerization Reactions in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1025-1028.	3.7	6
45	Kinetics and modeling of charge transfer polymerization of methyl methacrylate. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 495-507.	1.5	6
46	Self-assembled structure and dynamics of imidazolium-based protic salts in water solution. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2691-2696.	2.8	6
47	Green approach towards hydrolysing wheat gluten using waste ingredients from pineapple processing industries. <i>International Journal of Food Science and Technology</i> , 2021, 56, 1724-1733.	2.7	5
48	Influence of ion structure on thermal runaway behaviour of aprotic and protic ionic liquids. <i>Chemical Communications</i> , 2020, 56, 11819-11822.	4.1	2
49	Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11005-11016.	2.6	2
50	Spectroscopic investigations of polyacrylonitrile thermal degradation. <i>Journal of Polymer Science Part A</i> , 1998, 36, 2503-2512.	2.3	2
51	Enhanced structural stability of insulin aspart in cholinium aminoate ionic liquids. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 544-552.	7.5	2
52	ROLE OF FREE RADICAL QUENCHERS IN THE CHARGE TRANSFER POLYMERIZATION OF STYRENE AND ALKYL METHACRYLATES. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1999, 36, 759-773.	2.2	1