# Vijayaraghavan Ranganathan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1970776/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 52 papers | 2,308 citations | 218677 26 h-index | 206112 48 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 3013 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrated Biorefinery Strategy for Valorization of Pineapple Processing Waste into High-Value Products. Waste and Biomass Valorization, 2022, 13, 631-643. | 3.4 | 15 |
| 2 | Enhanced structural stability of insulin aspart in cholinium aminoate ionic liquids. International Journal of Biological Macromolecules, 2022, 208, 544-552. | 7.5 | 2 |
| 3 | Green approach towards hydrolysing wheat gluten using waste ingredients from pineapple processing industries. International Journal of Food Science and Technology, 2021, 56, 1724-1733. | 2.7 | 5 |
| 4 | Guanidinium Organic Salts as Phaseâ€Change Materials for Renewable Energy Storage. ChemSusChem, 2021, 14, 2757-2762. | 6.8 | 14 |
| 5 | Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. Journal of Physical Chemistry B, 2021, 125, 11005-11016. | 2.6 | 2 |
| 6 | Pyrazolium Phaseâ€Change Materials for Solarâ€Thermal Energy Storage. ChemSusChem, 2020, 13, 159-164. | 6.8 | 29 |
| 7 | Role of Hydrogen Bonding in Phase Change Materials. Crystal Growth and Design, 2020, 20, 1285-1291. | 3.0 | 24 |
| 8 | Influence of ion structure on thermal runaway behaviour of aprotic and protic ionic liquids. Chemical Communications, 2020, 56, 11819-11822. | 4.1 | 2 |
| 9 | Extraction and crosslinking of bromelain aggregates for improved stability and reusability from pineapple processing waste. International Journal of Biological Macromolecules, 2020, 158, 318-326. | 7.5 | 30 |
| 10 | Self-assembled structure and dynamics of imidazolium-based protic salts in water solution. Physical Chemistry Chemical Physics, 2019, 21, 2691-2696. | 2.8 | 6 |
| 11 | High CO<sub>2</sub> absorption by diamino protic ionic liquids using azolide anions. Chemical Communications, 2018, 54, 2106-2109. | 4.1 | 48 |
| 12 | The influence of anion chemistry on the ionic conductivity and molecular dynamics in protic organic ionic plastic crystals. Physical Chemistry Chemical Physics, 2018, 20, 4579-4586. | 2.8 | 7 |
| 13 | Base-rich diamino protic ionic liquid mixtures for enhanced CO2 capture. Separation and Purification Technology, 2018, 196, 27-31. | 7.9 | 30 |
| 14 | Choline ionic liquid enhances the stability of HerceptinÂ® (trastuzumab). Chemical Communications, 2018, 54, 10622-10625. | 4.1 | 26 |
| 15 | Influence of Electrospun Poly(vinylidene difluoride) Nanofiber Matrix on the Ion Dynamics of a Protic Organic Ionic Plastic Crystal. Journal of Physical Chemistry C, 2018, 122, 14546-14553. | 3.1 | 10 |
| 16 | Environmentally Benign and Recyclable Aqueous Two-Phase System Composed of Distillable CO<sub>2</sub>-Based Alkyl Carbamate Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 10344-10354. | 6.7 | 19 |
| 17 | Enhanced CO<sub>2</sub> uptake by intramolecular proton transfer reactions in amino-functionalized pyridine-based ILs. Chemical Communications, 2017, 53, 5950-5953. | 4.1 | 31 |
| 18 | A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroinâ€“Ionic Liquid Polymer Electrolyte. ACS Energy Letters, 2017, 2, 831-836. | 17.4 | 134 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bioactives from fruit processing wastes: Green approaches to valuable chemicals. Food Chemistry, 2017, 225, 10-22. | 8.2 | 338 |
| 20 | Protic plastic crystal/PVDF composite membranes for Proton Exchange Membrane Fuel Cells under non-humidified conditions. Electrochimica Acta, 2017, 247, 970-976. | 5.2 | 33 |
| 21 | New dimensions in saltâ€“solvent mixtures: a 4th evolution of ionic liquids. Faraday Discussions, 2017, 206, 9-28. | 3.2 | 96 |
| 22 | Protic organic ionic plastic crystals based on a difunctional cation and the triflate anion: a new solid-state proton conductor. Chemical Communications, 2016, 52, 14097-14100. | 4.1 | 17 |
| 23 | Mechanisms of low temperature capture and regeneration of CO<sub>2</sub> using diamino protic ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 1140-1149. | 2.8 | 42 |
| 24 | Enhancement of â€˜dryâ€™ proton conductivity by self-assembled nanochannels in all-solid polyelectrolytes. Journal of Materials Chemistry A, 2016, 4, 7615-7623. | 10.3 | 21 |
| 25 | Enhanced enzymatic degradation resistance of plasmid DNA in ionic liquids. RSC Advances, 2015, 5, 43839-43844. | 3.6 | 10 |
| 26 | Inhibited fragmentation of mAbs in buffered ionic liquids. Chemical Communications, 2015, 51, 8089-8092. | 4.1 | 18 |
| 27 | Green, Aqueous Two-Phase Systems Based on Cholinium Aminoate Ionic Liquids with Tunable Hydrophobicity and Charge Density. ACS Sustainable Chemistry and Engineering, 2015, 3, 3291-3298. | 6.7 | 64 |
| 28 | Direct ionic liquid extractant injection for volatile chemical analysis â€“ a gas chromatography sampling technique. Green Chemistry, 2015, 17, 573-581. | 9.0 | 14 |
| 29 | Aqueous ionic liquid solutions as alternatives for sulphide-free leather processing. Green Chemistry, 2015, 17, 1001-1007. | 9.0 | 23 |
| 30 | CO<sub>2</sub>-Based Alkyl Carbamate Ionic Liquids as Distillable Extraction Solvents. ACS Sustainable Chemistry and Engineering, 2014, 2, 1724-1728. | 6.7 | 26 |
| 31 | Dissolution and regeneration of wool keratin in ionic liquids. Green Chemistry, 2014, 16, 2857-2864. | 9.0 | 156 |
| 32 | Probing the specific ion effects of biocompatible hydrated choline ionic liquids on lactate oxidase biofunctionality in sensor applications. Physical Chemistry Chemical Physics, 2014, 16, 1841-1849. | 2.8 | 29 |
| 33 | Distillable Protic Ionic Liquids for Keratin Dissolution and Recovery. ACS Sustainable Chemistry and Engineering, 2014, 2, 1888-1894. | 6.7 | 89 |
| 34 | Dissolution of feather keratin in ionic liquids. Green Chemistry, 2013, 15, 525. | 9.0 | 158 |
| 35 | Plastic crystal phases with high proton conductivity. Journal of Materials Chemistry, 2012, 22, 2965-2974. | 6.7 | 38 |
| 36 | Novel acid initiators for the rapid cationic polymerization of styrene in room temperature ionic liquids. Science China Chemistry, 2012, 55, 1671-1676. | 8.2 | 13 |

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|---|---|---|---|
| 37 | An organic ionic plastic crystal electrolyte based on the triflate anion exhibiting high proton transport. Chemical Communications, 2011, 47, 6401. | 4.1 | 35 |
| 38 | Protic ionic liquids based on phosphonium cations: comparison with ammonium analogues. Chemical Communications, 2011, 47, 11612. | 4.1 | 55 |
| 39 | Role of choline formate ionic liquid in the polymerization of vinyl and methacrylic monomers. Journal of Applied Polymer Science, 2011, 120, 3733-3739. | 2.6 | 10 |
| 40 | Biocompatibility of choline salts as crosslinking agents for collagen based biomaterials. Chemical Communications, 2010, 46, 294-296. | 4.1 | 87 |
| 41 | Distillable ionic liquid extraction of tannins from plant materials. Green Chemistry, 2010, 12, 1023. | 9.0 | 92 |
| 42 | Kinetics and modeling of charge transfer polymerization of methyl methacrylate. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 495-507. | 1.5 | 6 |
| 43 | Exothermic and thermal runaway behaviour of some ionic liquids at elevated temperatures. Chemical Communications, 2009, , 6297. | 4.1 | 38 |
| 44 | Organoborate Acids as Initiators for Cationic Polymerization of Styrene in an Ionic Liquid Medium. Macromolecules, 2007, 40, 6515-6520. | 4.8 | 55 |
| 45 | Adiabatic Calorimetry of Telomerization Reactions in Ionic Liquids. Industrial & Engineering Chemistry Research, 2007, 46, 1025-1028. | 3.7 | 6 |
| 46 | Extraction and recovery of azo dyes into an ionic liquid. Talanta, 2006, 69, 1059-1062. | 5.5 | 103 |
| 47 | Ionic Liquids as Moderators in Exothermic Polymerization Reactions. Angewandte Chemie - International Edition, 2004, 43, 5363-5366. | 13.8 | 31 |
| 48 | Living cationic polymerisation of styrene in an ionic liquidElectronic 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/. Chemical Communications, 2004, , 700. | 4.1 | 95 |
| 49 | Studies on Synthesis and Characterization of Charge Transfer Polymerization of Styrene and Alkyl Methacrylates. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1057-1080. | 2.2 | 6 |
| 50 | ROLE OF FREE RADICAL QUENCHERS IN THE CHARGE TRANSFER POLYMERIZATION OF STYRENE AND ALKYLMETHACRYLATES. Journal of Macromolecular Science - Pure and Applied Chemistry, 1999, 36, 759-773. | 2.2 | 1 |
| 51 | Spectroscopic investigations of polyacrylonitrile thermal degradation. Journal of Polymer Science Part A, 1998, 36, 2503-2512. | 2.3 | 66 |
| 52 | Spectroscopic investigations of polyacrylonitrile thermal degradation. Journal of Polymer Science Part A, 1998, 36, 2503-2512. | 2.3 | 2 |