## CITATION REPORT List of articles citing

Synthesis, anti-microbial activities and anti-electrostatic properties of phosphonium-based ionic liquids

DOI: 10.1039/b508499g Green Chemistry, 2005, 7, 855.

Source: https://exaly.com/paper-pdf/39472233/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 178 | New Dual Functional Salts Based on Cationic Derivative of Plant Resistance InducerBenzo[1.2.3]thiadiazole-7-carbothioic Acid, SMethyl Ester.  |     |           |
| 177 | Dual Functional Salts of Benzo[1.2.3]thiadiazole-7-carboxylates as a Highly Efficient Weapon Against Viral Plant Diseases.  |     |           |
| 176 | Influence of chloride, water, and organic solvents on the physical properties of ionic liquids. <b>2000</b> , 72, 2275-2287   |     | 1942      |
| 175 | Ionic liquids. Green solvents for the future. <b>2000</b> , 72, 1391-1398   |     | 2272      |
| 174 | Polymer electrolytes containing ionic liquids with acidic counteranion (DMRImH2PO4, R = ethyl, butyl and octyl). <b>2006</b> , 425, 294-300   |     | 24        |
| 173 | Design and synthesis of hydrophobic and chiral anions from amino acids as precursor for functional ionic liquids. <i>Chemical Communications</i> , <b>2006</b> , 3081-3   | 5.8 | 132       |
| 172 | Asymmetric sulfonium-based molten salts with TFSIDr PF6Danion as novel electrolytes. <b>2006</b> , 162, 614-619   |     | 31        |
| 171 | Scope and mechanistic insights into the use of tetradecyl(trihexyl)phosphonium bistriflimide: a remarkably selective ionic liquid solvent for substitution reactions. <b>2006</b> , 12, 9314-22   |     | 58        |
| 170 | Characterization of Phosphonium Ionic Liquids with Emphasis on Mass Spectrometry and Chromatography. <i>ACS Symposium Series</i> , <b>2007</b> , 47-68  | 0.4 | 1         |
| 169 | Ionic Liquids Then and Now: From Solvents to Materials to Active Pharmaceutical Ingredients. <b>2007</b> , 80, 2262-2269  |     | 280       |
| 168 | Design of sustainable chemical productsthe example of ionic liquids. <b>2007</b> , 107, 2183-206  |     | 695       |
| 167 | Effects of different head groups and functionalised side chains on the aquatic toxicity of ionic liquids. <i>Green Chemistry</i> , <b>2007</b> , 9, 1170  | 10  | 377       |
| 166 | Cytotoxicity of ionic liquids and precursor compounds towards human cell line HeLa. <i>Green Chemistry</i> , <b>2007</b> , 9, 1191  | 10  | 168       |
| 165 | Synthesis and characterization of fluorinated phosphonium ionic liquids. 2007, 85, 660-667  |     | 30        |
| 164 | Ionic liquid passivated CdSe nanocrystals. Chemical Communications, 2007, 574-6   | 5.8 | 42        |
| 163 | Limiting partition coefficients of solutes in biphasic trihexyltetradecylphosphonium chloride ionic liquid-supercritical CO2 system: measurement and LSER-based correlation. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7620-5 | 3.4 | 16        |
| 162 | A simple method for chemoselective phenol alkylation. <b>2007</b> , 48, 7380-7382   |     | 7         |

## (2010-2008)

| 161 | The DielsAlder Reaction in Phosphonium Ionic Liquid Catalysed by Metal Chlorides, Triflates and Triflimides. <b>2008</b> , 124, 105-110  |     | 14  |
|-----|--|-----|-----|
| 160 | Comprehensive two-dimensional gas chromatography using a high-temperature phosphonium ionic liquid column. <b>2008</b> , 390, 323-32   |     | 71  |
| 159 | Characterization of phosphonium ionic liquids through a linear solvation energy relationship and their use as GLC stationary phases. <b>2008</b> , 390, 1605-17  |     | 152 |
| 158 | Ionic liquids as catalytic additives for the acceleration of the photopolymerization of poly(ethylene glycol dimethacrylate)s. <b>2008</b> , 57, 538-545   |     | 20  |
| 157 | Preparation of AgX (X = Cl, I) nanoparticles using ionic liquids. <b>2008</b> , 19, 105603   |     | 34  |
| 156 | Cytotoxicity of selected imidazolium-derived ionic liquids in the human Caco-2 cell line. Sub-structural toxicological interpretation through a QSAR study. <i>Green Chemistry</i> , <b>2008</b> , 10, 508 | 10  | 139 |
| 155 | Whole-Cell Biocatalysis with Ionic Liquids. <b>2009</b> , 13, 1242-1258  |     | 41  |
| 154 | Hydrogen gas yields in irradiated room-temperature ionic liquids. <b>2009</b> , 78, 168-172  |     | 38  |
| 153 | Ionic liquids based on 1-aza-bicyclo[2,2,2]octane (Quinuclidine) salts: synthesis and physicochemical properties. <b>2009</b> , 39, 2461-2467  |     | 7   |
| 152 | Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues. <b>2009</b> , 20, 661-71                                       |     | 7   |
| 151 | High Temperature Ionic Liquids: Thermal Properties and Dimorphism in [1-(Methoxycarbonyl) Ethyl] Triphenylphosphonium p-Toluenesulfonate. <b>2009</b> , 39, 693-697  |     | 1   |
| 150 | Extractive removal of zinc(II) from chloride liquors with phosphonium ionic liquids/toluene mixtures as novel extractants. <b>2009</b> , 66, 19-24   |     | 92  |
| 149 | Exploring fungal activity in the presence of ionic liquids. <i>Green Chemistry</i> , <b>2009</b> , 11, 889   | 10  | 100 |
| 148 | Hydrosilylation of functionalised olefins catalysed by rhodium siloxide complexes in ionic liquids. <i>Green Chemistry</i> , <b>2009</b> , 11, 1045  | 10  | 39  |
| 147 | A high throughput screen to test the biocompatibility of water-miscible ionic liquids. <i>Green Chemistry</i> , <b>2009</b> , 11, 402  | 10  | 53  |
| 146 | On the Merge of Fungal Activity with Ionic Liquids towards the Development of New Biotechnological Processes. <i>ACS Symposium Series</i> , <b>2010</b> , 197-207  | 0.4 |     |
| 145 | Novel biocompatible cholinium-based ionic liquidsfloxicity and biodegradability. <i>Green Chemistry</i> , <b>2010</b> , 12, 643  | 10  | 421 |
| 144 | Photopolymerization of poly(ethylene glycol) dimethacrylates: The influence of ionic liquids on the formulation and the properties of the resultant polymer materials. <b>2010</b> , 48, 2388-2409         |     | 34  |

| 143 | H2O2/Phosphonium Ionic Liquid: An Efficient and Simple Approach for Benzyl Halides Oxidation. <b>2010</b> , 7, 491-494   |    | 4    |
|-----|--|----|------|
| 142 | Antimicrobial and antibiofilm activities of 1-alkylquinolinium bromide ionic liquids. <i>Green Chemistry</i> , <b>2010</b> , 12, 420   | 0  | 132  |
| 141 | Environmental fate and toxicity of ionic liquids: a review. <b>2010</b> , 44, 352-72   |    | 1155 |
| 140 | Accelerating the discovery of biocompatible ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 1670-4   | .6 | 65   |
| 139 | Phosphonium Ionic Liquid©atalyzed Michael Addition of Mercaptans to ∰Unsaturated Ketones. <b>2010</b> , 40, 2178-2184  |    | 17   |
| 138 | Design of Inherently Safer Ionic Liquids: Toxicology and Biodegradation. <b>2010</b> , 233   |    | 13   |
| 137 | Antimicrobial and surface activity of 1-alkyl-3-methylimidazolium derivatives. <i>Green Chemistry</i> , <b>2010</b> , 12, 593  | 0  | 204  |
| 136 | In search of pure liquid salt forms of aspirin: ionic liquid approaches with acetylsalicylic acid and salicylic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2011-7              | .6 | 159  |
| 135 | Confused ionic liquid ionsa "liquification" and dosage strategy for pharmaceutically active salts.  Chemical Communications, <b>2010</b> , 46, 1215-7  | .8 | 104  |
| 134 | Molecular dynamics simulations of the structure and transport properties of tetra-butylphosphonium amino acid ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 8826-37 $^3$ | .6 | 43   |
| 133 | Ionic liquids: a pathway to environmental acceptability. <b>2011</b> , 40, 1383-403  |    | 931  |
| 132 | Imidazolium ionic liquids containing selenium: synthesis and antimicrobial activity. <b>2011</b> , 9, 1001-3   |    | 67   |
| 131 | Ionic liquid-assisted synthesis, structural characterization, and photocatalytic performance of CdS nanocrystals. <b>2011</b> , 130, 1175-1181   |    | 12   |
| 130 | Influence of ionic liquids on the crystalline structure of nanocolloids. <b>2011</b> , 13, 3330  |    | 6    |
| 129 | Synthesis and anti-microbial activity of hydroxylammonium ionic liquids. <i>Chemosphere</i> , <b>2011</b> , 84, 101-4 8  | ·4 | 43   |
| 128 | Anion-selective electrodes based on ionic liquid membranes: effect of ionic liquid anion on observed response. <b>2011</b> , 400, 3025-33  |    | 14   |
| 127 | Polymerization of the new double-charged monomer bis-1,3(N,N,N-trimethylammonium dicyanamide)-2-propylmethacrylate and ionic conductivity of the novel polyelectrolytes. <b>2011</b> , 22, 448-45        | 7  | 17   |
| 126 | Cytotoxicity of Plasticizers and Ionic Liquids Using Drosophila melanogaster S2 Cell Culture. <b>2011</b> , 34, 429-438  |    | 7    |

| 125                      | Influence of ionic liquids on the surface properties of poplar veneers. <b>2011</b> , 257, 6220-6225   |     | 31                              |
|--------------------------|--|-----|---------------------------------|
| 124                      | [1,4-Phenyl-enebis(methyl-ene)]bis-(tri-phenyl-phospho-nium) bis-(tetra-fluoro-borate). <b>2011</b> , 67, o33  | 91  | 1                               |
| 123                      | Quaternary Phosphonium Salt and 1,3-Dialkylimidazolium Hexafluorophosphate Ionic Liquids as Green Chemical Tools in Organic Syntheses. <b>2011</b> , 15, 3824-3848   |     | 23                              |
| 122                      | Ionic Liquids and their Biological Effects Towards Microorganisms. <b>2011</b> , 15, 1888-1904   |     | 30                              |
| 121                      | Diphosphonium ionic liquids as broad-spectrum antimicrobial agents. <b>2012</b> , 31, 810-6  |     | 37                              |
| 120                      | Ionic Liquids and Whole-Cell¶atalyzed Processes. <b>2012</b> , 261-314   |     | 1                               |
| 119                      | Investigations on a series of novel ionic liquids containing the [closo-B12Cl12]2ldianion. <i>RSC Advances</i> , <b>2012</b> , 2, 9830   | 3.7 | 17                              |
| 118                      | Determination of the glass transition temperature of ionic liquids: A molecular approach. <b>2012</b> , 543, 88-95   |     | 23                              |
| 117                      | Toxicity assessment of various ionic liquid families towards Vibrio fischeri marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 76, 162-8  | 7   | 231                             |
|                          | Unravelling the mechanism of toxicity of alkyltributylphosphonium chlorides in Aspergillus nidulans  |     |                                 |
| 116                      | conidia. <b>2012</b> , 36, 56-63   |     | 53                              |
| 116                      |  | 7   | <ul><li>53</li><li>73</li></ul> |
|                          | conidia. 2012, 36, 56-63  Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation.   | 7   |                                 |
| 115                      | conidia. 2012, 36, 56-63  Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. Ecotoxicology and Environmental Safety, 2012, 83, 55-62  Shear- and Temperature-Dependent Viscosity Behavior of Two Phosphonium-Based Ionic Liquids   | 7   | 73                              |
| 115                      | Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 83, 55-62  Shear- and Temperature-Dependent Viscosity Behavior of Two Phosphonium-Based Ionic Liquids and Surfactant Triton X-100 and Their Biocidal Activities. <b>2012</b> , 57, 1376-1386  Protic pharmaceutical ionic liquids and solids: aspects of protonics. <b>2012</b> , 154, 335-52; discussion   | 7   | 73                              |
| 115<br>114<br>113        | Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 83, 55-62  Shear- and Temperature-Dependent Viscosity Behavior of Two Phosphonium-Based Ionic Liquids and Surfactant Triton X-100 and Their Biocidal Activities. <b>2012</b> , 57, 1376-1386  Protic pharmaceutical ionic liquids and solids: aspects of protonics. <b>2012</b> , 154, 335-52; discussion 439-64, 465-71  Spectroscopic behavior of fluorescein as a constituent anion in a phosphonium-based ionic liquid  | 6   | 73<br>35<br>110                 |
| 115<br>114<br>113        | Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 83, 55-62  Shear- and Temperature-Dependent Viscosity Behavior of Two Phosphonium-Based Ionic Liquids and Surfactant Triton X-100 and Their Biocidal Activities. <b>2012</b> , 57, 1376-1386  Protic pharmaceutical ionic liquids and solids: aspects of protonics. <b>2012</b> , 154, 335-52; discussion 439-64, 465-71  Spectroscopic behavior of fluorescein as a constituent anion in a phosphonium-based ionic liquid material. <b>2012</b> , 132, 239-243  Antimicrobial activity of the ionic liquids triethanolamine acetate and diethanolamine chloride, and   |     | 73<br>35<br>110                 |
| 115<br>114<br>113<br>112 | Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 83, 55-62  Shear- and Temperature-Dependent Viscosity Behavior of Two Phosphonium-Based Ionic Liquids and Surfactant Triton X-100 and Their Biocidal Activities. <b>2012</b> , 57, 1376-1386  Protic pharmaceutical ionic liquids and solids: aspects of protonics. <b>2012</b> , 154, 335-52; discussion 439-64, 465-71  Spectroscopic behavior of fluorescein as a constituent anion in a phosphonium-based ionic liquid material. <b>2012</b> , 132, 239-243  Antimicrobial activity of the ionic liquids triethanolamine acetate and diethanolamine chloride, and their corresponding Pd(II) complexes. <i>Journal of Molecular Liquids</i> , <b>2012</b> , 170, 61-65  Synthesis and anti-microbial potencies of 1-(2-hydroxyethyl)-3-alkylimidazolium chloride ionic liquids: microbial viabilities at different ionic liquids concentrations. <i>Ecotoxicology and</i> | 6   | 73<br>35<br>110<br>4<br>17      |

| 107                        | Magnetic resonance imaging of the rheology of ionic liquid colloidal suspensions. 2013, 9, 2730  |       | 14                          |
|----------------------------|--|-------|-----------------------------|
| 106                        | Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form. <b>2013</b> , 4, 559  |       | 67                          |
| 105                        | The effect of the cationic structures of chiral ionic liquids on their antimicrobial activities. 2013, 69, 419   | 0-419 | 8 47                        |
| 104                        | Imidazolium and Pyridinium Ionic Liquids from Mandelic Acid Derivatives: Synthesis and Bacteria and Algae Toxicity Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 393-402   | 8.3   | 63                          |
| 103                        | Synthesis, characterization and the antimicrobial activity of new eco-friendly ionic liquids. <i>Chemosphere</i> , <b>2013</b> , 91, 1627-34   | 8.4   | 29                          |
| 102                        | A Note on Hybrid Nanocomposites. <b>2013</b> , 91-102  |       |                             |
| 101                        | TOXICITY ASSESSMENT OF PHOSPHONIUM BASED IONIC LIQUIDS TOWARDS FEMALE GUPPY FISH. <b>2013</b> , 9, 511-517   |       | 4                           |
| 100                        | Optimization of dispersive liquid-liquid microextraction based on the solidification of floating organic droplets using an orthogonal array design and its application for the determination of fungicide concentrations in environmental water samples. <b>2014</b> , 37, 1996-2001   |       | 22                          |
| 99                         | Ammonium- and Phosphonium-Based Ionic Liquid: Green and Reusable Catalysts. <b>2014</b> , 105-127  |       |                             |
|                            |  |       |                             |
| 98                         | Pharmaceutically Active Supported Ionic Liquids. <b>2014</b> , 385-406   |       | 1                           |
| 98<br>97                   | Pharmaceutically Active Supported Ionic Liquids. 2014, 385-406  Ionic liquids influence on the surface properties of electron beam irradiated wood. 2014, 314, 956-966   |       | 1                           |
|                            |  | 3.6   |                             |
| 97                         | Ionic liquids influence on the surface properties of electron beam irradiated wood. <b>2014</b> , 314, 956-966  Quaternary ammonium and phosphonium based ionic liquids: a comparison of common anions.  | 3.6   | 12                          |
| 97<br>96                   | Ionic liquids influence on the surface properties of electron beam irradiated wood. <b>2014</b> , 314, 956-966  Quaternary ammonium and phosphonium based ionic liquids: a comparison of common anions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15278-88  Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation.   |       | 12<br>112                   |
| 97<br>96<br>95             | Ionic liquids influence on the surface properties of electron beam irradiated wood. <b>2014</b> , 314, 956-966  Quaternary ammonium and phosphonium based ionic liquids: a comparison of common anions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15278-88  Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 8711-23  Ionic liquid-assisted liquid-phase microextraction based on the solidification of floating organic droplets combined with high performance liquid chromatography for the determination of  |       | 12<br>112<br>43             |
| 97<br>96<br>95<br>94       | Ionic liquids influence on the surface properties of electron beam irradiated wood. <b>2014</b> , 314, 956-966  Quaternary ammonium and phosphonium based ionic liquids: a comparison of common anions.  Physical Chemistry Chemical Physics, <b>2014</b> , 16, 15278-88  Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation.  Journal of Physical Chemistry B, <b>2014</b> , 118, 8711-23  Ionic liquid-assisted liquid-phase microextraction based on the solidification of floating organic droplets combined with high performance liquid chromatography for the determination of benzoylurea insecticide in fruit juice. <b>2014</b> , 1360, 47-56  Towards designing environmentally safe ionic liquids: the influence of the cation structure. Green  | 3.4   | 12<br>112<br>43<br>36       |
| 97<br>96<br>95<br>94<br>93 | Ionic liquids influence on the surface properties of electron beam irradiated wood. <b>2014</b> , 314, 956-966  Quaternary ammonium and phosphonium based ionic liquids: a comparison of common anions.  Physical Chemistry Chemical Physics, <b>2014</b> , 16, 15278-88  Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation.  Journal of Physical Chemistry B, <b>2014</b> , 118, 8711-23  Ionic liquid-assisted liquid-phase microextraction based on the solidification of floating organic droplets combined with high performance liquid chromatography for the determination of benzoylurea insecticide in fruit juice. <b>2014</b> , 1360, 47-56  Towards designing environmentally safe ionic liquids: the influence of the cation structure. Green Chemistry, <b>2014</b> , 16, 4749-4757 | 3.4   | 12<br>112<br>43<br>36<br>51 |

| 89 | Recent Advances in Bioionic Liquids and Biocompatible Ionic Liquid-Based Microemulsions. 2015, 397-445  | 1   |
|----|---|-----|
| 88 | Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms. <b>2015</b> , 103, 91-96   | 13  |
| 87 | A model to predict maximum tolerable temperatures of metal-oxide-supported 1- n -butyl-3-methylimidazolium based ionic liquids. <b>2015</b> , 123, 588-595  | 19  |
| 86 | Pro et contraPionic liquid drugs - Challenges and opportunities for pharmaceutical translation. <b>2015</b> , 94, 291-304   | 69  |
| 85 | Effect of imidazolium-based ionic liquids on bacterial growth inhibition investigated via experimental and QSAR modelling studies. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 297, 198-206   | 65  |
| 84 | The antimicrobial potential of ionic liquids: A source of chemical diversity for infection and biofilm control. <b>2015</b> , 46, 131-9   | 119 |
| 83 | Green, Aqueous Two-Phase Systems Based on Cholinium Aminoate Ionic Liquids with Tunable Hydrophobicity and Charge Density. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3291-3298  | 53  |
| 82 | Cholinium-based ion gels as solid electrolytes for long-term cutaneous electrophysiology. <b>2015</b> , 3, 8942-8948  | 37  |
| 81 | Long-Chain Alkylimidazolium Ionic Liquid Functionalization of Cellulose Nanofibers and Their Embedding in HDPE Matrix. <b>2016</b> , 2016, 1-9  | 3   |
| 80 | Antibacterial activities of fluorescent nano assembled triphenylamine phosphonium ionic liquids. <b>2016</b> , 26, 3770-3   | 14  |
| 79 | Liquid I quid extraction of cadmium (II) from sulfate medium using phosphonium and ammonium based ionic liquids diluted in kerosene. <b>2016</b> , 162, 63-70   | 29  |
| 78 | The new evolution of protic ionic liquids: Antielectrostatic activity correlated with their surface properties. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 41, 40-49  | 3   |
| 77 | Structural feature based computational approach of toxicity prediction of ionic liquids: Cationic and anionic effects on ionic liquids toxicity. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 393-400   | 30  |
| 76 | Phosphonium pillar[5]arenes as a new class of efficient biofilm inhibitors: importance of charge cooperativity and the pillar platform. <i>Chemical Communications</i> , <b>2016</b> , 52, 10656-9  | 41  |
| 75 | Comprehensive approach for predicting toxicological effects of ionic liquids on several biological systems using unified descriptors. <i>Scientific Reports</i> , <b>2016</b> , 6, 33403  | 31  |
| 74 | Toxicity of Ionic Liquids: Past, Present, and Future. <b>2016</b> , 403-421   | 9   |
| 73 | An ARXPS and ERXPS study of quaternary ammonium and phosphonium ionic liquids: utilising a high energy Ag LPX-ray source. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 6122-31  | 6   |
| 72 | Modelling for antimicrobial activities of ionic liquids towards Escherichia coli, Staphylococcus aureus and Candida albicans using linear free energy relationship descriptors. <i>Journal of Hazardous</i> 12.8 <i>Materials</i> , <b>2016</b> , 311, 168-75 | 29  |

| 71 | Whole-Cell Biocatalytic Processes with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 371-386   | 8.3           | 57  |
|----|---|---------------|-----|
| 70 | Crystalline structure and thermotropic behavior of alkyltrimethylphosphonium amphiphiles. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 4370-4382  | 3.6           | 7   |
| 69 | Mitochondria-targeted antioxidants as highly effective antibiotics. Scientific Reports, 2017, 7, 1394   | 4.9           | 34  |
| 68 | A review on ionic liquids as sustainable lubricants in manufacturing and engineering: Recent research, performance, and applications. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 1571-1589               | 10.3          | 123 |
| 67 | Biphasic Extraction, Recovery and Identification of Organic and Inorganic Compounds with Ionic Liquids. <i>ACS Symposium Series</i> , <b>2017</b> , 283-302   | 0.4           | 1   |
| 66 | Transport properties and ionicity of phosphonium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 23015-23023  | 3.6           | 20  |
| 65 | Determination of cationic surfactants in soil samples by the disulphine blue active substance (DBAS) procedure. <i>Journal of Analytical Chemistry</i> , <b>2017</b> , 72, 745-750                                      | 1.1           | 2   |
| 64 | Recent progress in ionic liquid processing of wood. MOKUZAI HOZON (Wood Protection), 2017, 43, 308-3  | 3 <b>2</b> 11 |     |
| 63 | Room-Temperature Ionic Liquids and Biomembranes: Setting the Stage for Applications in Pharmacology, Biomedicine, and Bionanotechnology. <i>Langmuir</i> , <b>2018</b> , 34, 9579-9597                                  | 4             | 49  |
| 62 | QSAR models for describing the toxicological elects of ILs against Candida albicans based on norm indexes. <i>Chemosphere</i> , <b>2018</b> , 201, 417-424  | 8.4           | 18  |
| 61 | QSAR models for describing the toxicological elects of ILs against Staphylococcus aureus based on norm indexes. <i>Chemosphere</i> , <b>2018</b> , 195, 831-838   | 8.4           | 23  |
| 60 | Can Melting Point Trends Help Us Develop New Tools To Control the Crystal Packing of Weakly Interacting Ions?. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 597-601   | 3.5           | 7   |
| 59 | Biodiversity of soil bacteria exposed to sub-lethal concentrations of phosphonium-based ionic liquids: Effects of toxicity and biodegradation. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 147, 157-1 | <b>8</b> 4    | 28  |
| 58 | Environmental Concerns Regarding Ionic Liquids in Biotechnological Applications. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2019</b> , 168, 241-328  | 1.7           | 2   |
| 57 | Split-anion solvent extraction of light rare earths from concentrated chloride aqueous solutions to nitrate organic ionic liquids <i>RSC Advances</i> , <b>2018</b> , 8, 34754-34763                                    | 3.7           | 15  |
| 56 | Ionic liquids as bioactive chemical tools for use in agriculture and the preservation of agricultural products. <i>Green Chemistry</i> , <b>2018</b> , 20, 4764-4789  | 10            | 40  |
| 55 | Environmental properties of phosphonium, imidazolium and ammonium cation-based ionic liquids as potential lubricant additives. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 272, 937-947                         | 6             | 27  |
| 54 | Nanocomposites of Microbial Polyglutamic Acid and Nanoclays Compatibilized by Organophosphonium Surfactants. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1800083                                   | 2.6           | O   |

## (2020-2019)

| 53 | Ionic liquid-incorporated polymeric nanoparticles as carriers for prevention and at an earlier stage of periodontal disease. <i>Materialia</i> , <b>2019</b> , 8, 100395   | 3.2                           | 5  |
|----|--|-------------------------------|----|
| 52 | Zwitterionic Protonophore Derived from 2-(2-Hydroxyaryl)alkenylphosphonium as an Uncoupler of Oxidative Phosphorylation. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 2435-2443   | 6.3                           | 10 |
| 51 | Application of Ionic Liquids in Biotechnology. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2019</b> ,  | 1.7                           | 2  |
| 50 | Synthesis, properties and adjuvant activity of docusate-based ionic liquids in pesticide formulations. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 78, 440-447  | 6.3                           | 13 |
| 49 | A novel process for simultaneous degumming and deacidification of Soybean, Canola and Sunflower oils by tetrabutylphosphonium phosphate ionic liquid. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 76, 245-250 | 6.3                           | 9  |
| 48 | Virtual screening in the design of ionic liquids as environmentally safe bactericides. <i>Green Chemistry</i> , <b>2019</b> , 21, 1965-1973  | 10                            | 7  |
| 47 | ERadiolysis of Room-Temperature Ionic Liquids: An EPR Spin-Trapping Study. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 10837-10849   | 3.4                           | 2  |
| 46 | Optimization of ionic liquid-incorporated PLGA nanoparticles for treatment of biofilm infections. <i>Materials Science and Engineering C</i> , <b>2019</b> , 97, 78-83   | 8.3                           | 13 |
| 45 | Machining performance of vegetable oil with phosphonium- and ammonium-based ionic liquids via MQL technique. <i>Journal of Cleaner Production</i> , <b>2019</b> , 209, 947-964   | 10.3                          | 59 |
| 44 | Methyltriphenylphosphonium carboxylate ionic liquids: Green synthesis, adsorption and aggregation behavior in aqueous solution. <i>Journal of Dispersion Science and Technology</i> , <b>2020</b> , 41, 148-1                            | 5 <sup>1</sup> 6 <sup>5</sup> | 1  |
| 43 | A review of recent advances towards the development of QSAR models for toxicity assessment of ionic liquids. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121429   | 12.8                          | 35 |
| 42 | Interactions of alkyltriphenyl phosphonium based ionic liquids with block copolymer microstructures: A multitechnique study. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 300, 112341   | 6                             | 5  |
| 41 | Comparative study of inclusion complexation of tetraalkylphosphonium and ammonium salts with cucurbit[7]uril. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2020</b> , 98, 117-122                                | 1.7                           |    |
| 40 | Evaluating the Toxicity of Ionic Liquids on Shewanella sp. for Designing Sustainable Bioprocesses. <i>Frontiers in Materials</i> , <b>2020</b> , 7,  | 4                             | 4  |
| 39 | Applicability of heuristic rules defining structure cotoxicity relationships of ionic liquids: an integrative assessment using species sensitivity distributions (SSD). <i>Green Chemistry</i> , <b>2020</b> , 22, 6176-61               | 8 <sup>£0</sup>               | 6  |
| 38 | Sustainable Preparation of Microcapsules with Desirable Stability and Bioactivity Using Phosphonium Ionic Liquid as a Functional Additive. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13440-13448               | 8.3                           | 8  |
| 37 | Conformational design concepts for anions in ionic liquids Chemical Science, 2020, 11, 6405-6422   | 9.4                           | 13 |
| 36 | High-throughput toxicity screening of novel azepanium and 3-methylpiperidinium ionic liquids <i>RSC Advances</i> , <b>2020</b> , 10, 22864-22870   | 3.7                           | 7  |

| 35 | Efficacy of imidazolium and piperidinium based ionic liquids on inhibiting biofilm formation on titanium and carbon steel surfaces. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1126, 38-51   | 6.6  | 6  |
|----|---|------|----|
| 34 | Applications of phosphonium-based ionic liquids in chemical processes. <i>Journal of the Iranian Chemical Society</i> , <b>2020</b> , 17, 1775-1917   | 2    | 27 |
| 33 | Ionic Liquid-Functionalized Multiwalled Carbon Nanotube-Based Hydrophobic Coatings for Robust Antibacterial Applications <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2092-2103  | 4.1  | 11 |
| 32 | QSAR modeling of toxicities of ionic liquids toward Staphylococcus aureus using SMILES and graph invariants. <i>Structural Chemistry</i> , <b>2020</b> , 31, 2257-2270  | 1.8  | 15 |
| 31 | Iron oxide nanoparticles modified with ionic liquid as an efficient adsorbent for fluoride removal from groundwater. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 19, 100842  | 7    | 10 |
| 30 | Phosphonium Ionic Liquid-Infused Poly(vinyl chloride) Surfaces Possessing Potent Antifouling Properties. <i>ACS Omega</i> , <b>2020</b> , 5, 7771-7781  | 3.9  | 8  |
| 29 | Group Contribution Estimation of Ionic Liquid Melting Points: Critical Evaluation and Refinement of Existing Models. <i>Molecules</i> , <b>2021</b> , 26,   | 4.8  | 2  |
| 28 | Insight into the Interactions between Azole-Anion-Based Ionic Liquids and Propargylic Alcohol: Influence on the Carboxylative Cyclization of Propargylic Alcohol with Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 5050-5060 | 8.3  | O  |
| 27 | Biofilm control by ionic liquids. <i>Drug Discovery Today</i> , <b>2021</b> , 26, 1340-1346   | 8.8  | 5  |
| 26 | Trialkyl(vinyl)phosphonium Chlorophenol Derivatives as Potent Mitochondrial Uncouplers and Antibacterial Agents. <i>ACS Omega</i> , <b>2021</b> , 6, 20676-20685  | 3.9  | 2  |
| 25 | Development of an automated yeast-based spectrophotometric method for toxicity screening: Application to ionic liquids, GUMBOS, and deep eutectic solvents. <i>Chemosphere</i> , <b>2021</b> , 277, 130227  | 8.4  | О  |
| 24 | Cumulative impact assessment of hazardous ionic liquids towards aquatic species using risk assessment methods. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 125364  | 12.8 | 7  |
| 23 | Design, development and mechanistic insights into the enhanced antibacterial activity of mono and bis-phosphonium fluoresceinate ionic liquids. <i>Materials Today Communications</i> , <b>2021</b> , 28, 102672  | 2.5  | 1  |
| 22 | Review of the toxic effects of ionic liquids. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147309   | 10.2 | 38 |
| 21 | A simple and green preparation process for PRO@PIL-PHS-PEC microcapsules by using phosphonium ionic liquid as a multifunctional additive. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130371   | 14.7 | 4  |
| 20 | Ionic Liquids - Pages 471-477. <b>2009</b> , 471-477  |      |    |
| 19 | CHAPTER 16:Bioactivity of Ionic Liquids. <i>RSC Smart Materials</i> , <b>2017</b> , 404-422   | 0.6  | 1  |
| 18 | QSAR Study of Some 1,3-Oxazolylphosphonium Derivatives as New Potent Anti-Candida Agents and Their Toxicity Evaluation. <i>Current Drug Discovery Technologies</i> , <b>2019</b> , 16, 204-209  | 1.5  | 1  |

17 Co-existence of two lamellar phases in phospholipid multilayers induced by an ionic liquid. **2020**,

| 16 | Effectiveness of ionic liquids in extractive Dixidative desulfurization of liquid fuels: a review.  Chemical Papers, 1  | 1.9 | 2 |
|----|---|-----|---|
| 15 | Antimicrobial and Cytotoxic Activity of Novel Imidazolium-Based Ionic Liquids <i>Molecules</i> , <b>2022</b> , 27,  | 4.8 | 1 |
| 14 | Ionic Liquid Melting Points: Structure <b>P</b> roperty Analysis and New Hybrid Group Contribution Model. <i>Industrial &amp; Description Industrial &amp; Description Engineering Chemistry Research</i> , <b>2022</b> , 61, 4683-4706 | 3.9 | O |
| 13 | Theoretical and Experimental Studies of Phosphonium Ionic Liquids as Potential Antibacterials of MDR <i>Antibiotics</i> , <b>2022</b> , 11,   | 4.9 | О |
| 12 | Sterically Hindered Quaternary Phosphonium Salts (QPSs): Antimicrobial Activity and Hemolytic and Cytotoxic Properties <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 23,   | 6.3 | 3 |
| 11 | Analytical Challenges in the Ecotoxicology of Emerging Environmental Pollutants. 2022, 1-17   |     |   |
| 10 | Surface properties of dicationic ionic liquids and correlation with biological activity. <i>Tenside,</i> Surfactants, Detergents, <b>2022</b> ,   | 1   | O |
| 9  | A Comparative Evaluation of Antibacterial Activities of Imidazolium-, Pyridinium-, and Phosphonium-based Ionic Liquids Containing Octyl Side Chains. <i>Heliyon</i> , <b>2022</b> , e09533  | 3.6 | 2 |
| 8  | Absorption of Phosphonium Cations and Dications into a Hydrated POPC Phospholipid Bilayer: A Computational Study. <i>Journal of Physical Chemistry B</i> ,  | 3.4 | 1 |
| 7  | Analytical Challenges in the Ecotoxicology of Emerging Environmental Pollutants. 2022, 881-897  |     |   |
| 6  | Rechargeable nanofibrillated cellulose aerogel with excellent biocidal properties for efficient oil/water separation. <b>2022</b> , 121955  |     | O |
| 5  | Skillful Control of Dispersion and 3D Network Structures: Advances in Functional OrganicIhorganic Nano-Hybrid Materials Prepared Using the Sol-Gel Method. <b>2022</b> , 14, 3247   |     | 1 |
| 4  | Ionic Liquids, Ionic Liquid Nanoparticles, and Nanocomposites: The Future Antibiotics. <b>2022</b> , 401-415  |     | O |
| 3  | Application of ionic liquids in pharmaceutics and medicine. 2022, 317-375   |     | О |
| 2  | Ionic liquids and organic salts with antimicrobial activity as a strategy against resistant microorganisms. <b>2022</b> , 368, 120750   |     | O |
| 1  | Environmental Benign Green Materials, Synthesis and Applications. <b>2022</b> , 1-10  |     | 0 |