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## Room-temperature phosphonium ionic liquids for supercapacitor application

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|-----|--|-----|-----------|
| 159 | Chapter 6 Application of nanotextured carbons for supercapacitors and hydrogen storage. <b>2006</b> , 7, 293-343   |     | 9         |
| 158 | Interactions between toluene and aniline and graphite surfaces. <b>2006</b> , 44, 3130-3133  |     | 4         |
| 157 | Solvent-free ionic liquids as in situ probes for assessing the effect of ion size on the performance of electrical double layer capacitors. <b>2006</b> , 44, 3126-3130  |     | 52        |
| 156 | Review of ionic liquids with fluorine-containing anions. <b>2006</b> , 127, 159-176  |     | 192       |
| 155 | Polypyrrole-Fe <sub>2</sub> O <sub>3</sub> nanohybrid materials for electrochemical storage. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 11, 398-406  | 2.6 | 56        |
| 154 | Physical and Electrochemical Properties of Room Temperature Ionic Liquids Based on Quaternary Phosphonium Cations. <b>2007</b> , 75, 734-736   |     | 82        |
| 153 | Vertically Aligned Carbon Nanofibers Coupled with Organosilicon Electrolytes: Electrical Properties of a High-Stability Nanostructured Electrochemical Interface. <b>2007</b> , 19, 5734-5741                              |     | 22        |
| 152 | Synthesis and properties of trigeminal tricationic ionic liquids. <b>2007</b> , 13, 3106-12  |     | 60        |
| 151 | Physical and electrochemical properties of low-viscosity phosphonium ionic liquids as potential electrolytes. <b>2007</b> , 9, 2353-2358   |     | 363       |
| 150 | Carbon materials for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1774-85   | 3.6 | 1539      |
| 149 | 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       |
| 148 | Capacitive performance of an ultralong aligned carbon nanotube electrode in an ionic liquid at 60°C. <b>2008</b> , 46, 30-34   |     | 78        |
| 147 | Heterogeneous electron transfer kinetics at the ionic liquid/metal interface studied using cyclic voltammetry and scanning electrochemical microscopy. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13292-9 | 3.4 | 55        |
| 146 | Comparison Between Electrochemical Properties of Aligned Carbon Nanotube Array and Entangled Carbon Nanotube Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, K19                            | 3.9 | 141       |
| 145 | Electrochemical Behavior of Lithium in Room-Temperature Phosphonium Ionic Liquids as Lithium Battery Electrolytes. <b>2008</b> , 11, A17   |     | 34        |
| 144 | Polarization-induced distortion of ions in the pores of carbon electrodes for electrochemical capacitors. <b>2009</b> , 47, 3158-3166  |     | 64        |
| 143 | Pseudocapacitive mechanism of manganese oxide in 1-ethyl-3-methylimidazolium thiocyanate ionic liquid electrolyte studied using X-ray photoelectron spectroscopy. <b>2009</b> , 25, 11955-60                               |     | 53        |

|     |   |     |     |
|-----|---|-----|-----|
| 142 | X-ray Photoelectron Spectroscopy and in Situ X-ray Absorption Spectroscopy Studies on Reversible Insertion/Desertion of Dicyanamide Anions into/from Manganese Oxide in Ionic Liquid. <b>2009</b> , 21, 2688-2695 |     | 82  |
| 141 | Influence of the Conductivity and Viscosity of Protic Ionic Liquids Electrolytes on the Pseudocapacitance of RuO <sub>2</sub> Electrodes. <b>2009</b> , 113, 1632-1639  |     | 50  |
| 140 | Evidence of extended solidlike layering in [Bmim][NTf <sub>2</sub> ] ionic liquid thin films at room-temperature. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6600-3                              | 3.4 | 148 |
| 139 | Pseudocapacitive behavior of Mn oxide in aprotic 1-ethyl-3-methylimidazolium dicyanamide ionic liquid. <b>2009</b> , 19, 3732   |     | 43  |
| 138 | Phosphonium-Based Ionic Liquids: An Overview. <b>2009</b> , 62, 309   |     | 384 |
| 137 | Capacitance Evolution of Electrochemical Capacitors with Tailored Nanoporous Electrodes in Pure and Dissolved Ionic Liquids. <b>2010</b> , 10, 834-839  |     | 14  |
| 136 | Application of sulfonium-, thiophenium-, and thioxonium-based salts as electric double-layer capacitor electrolytes. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 6970-6976                               | 8.9 | 30  |
| 135 | Allyl-functionalized ionic liquids as electrolytes for electric double-layer capacitors. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7471-7479   | 8.9 | 62  |
| 134 | Bioinspired nanostructural peptide materials for supercapacitor electrodes. <b>2010</b> , 25, 1661-1666   |     | 27  |
| 133 | Contrasting thermosolvatochromic trends in pyridinium-, pyrrolidinium-, and phosphonium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 376-81                                   | 3.4 | 93  |
| 132 | Solubility of alkanes, alkanols and their fluorinated counterparts in tetraalkylphosphonium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9685-92                                 | 3.6 | 42  |
| 131 | Conductivity and viscosity behavior of asymmetric phosphonium iodides. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4271-5   | 3.4 | 14  |
| 130 | Nanoporous carbon supercapacitors in an ionic liquid: a computer simulation study. <b>2010</b> , 4, 2345-55   |     | 237 |
| 129 | Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. <b>2011</b> , 21, 13205                     |     | 54  |
| 128 | Ionic liquids and organic ionic plastic crystals utilizing small phosphonium cations. <b>2011</b> , 21, 7640  |     | 84  |
| 127 | Thermal, rheological, and ion-transport properties of phosphonium-based ionic liquids. <b>2011</b> , 115, 13829-35  |     | 47  |
| 126 | Mesoporous carbon capsules as electrode materials in electrochemical double layer capacitors. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 2652-5   | 3.6 | 57  |
| 125 | Synthesis of Pd nanocrystals in phosphonium ionic liquids without any external reducing agents. <b>2011</b> , 13, 681   |     | 36  |

|     |  |     |     |
|-----|--|-----|-----|
| 124 | Delineating solute-solvent interactions in binary mixtures of ionic liquids in molecular solvents and preferential solvation approach. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 711-8                           | 3.4 | 79  |
| 123 | A "counter-charge layer in generalized solvents" framework for electrical double layers in neat and hybrid ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14723-34                      | 3.6 | 75  |
| 122 | Phosphonium-based protic ionic liquid as electrolyte for carbon-based supercapacitors. <b>2011</b> , 13, 1112-1115   |     | 68  |
| 121 | The electrochemistry of activated carbonaceous materials: past, present, and future. <i>Journal of Solid State Electrochemistry</i> , <b>2011</b> , 15, 1563-1578  | 2.6 | 132 |
| 120 | Phosphonium iodide as a donor liquid electrolyte for dyesensitized solar cells. <b>2011</b> , 76, 751-756  |     | 2   |
| 119 | Electrical double layer capacitors based on 1-ethyl-3-methylimidazolium tetrafluoroborate with small addition of acetonitrile. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 139-144  | 6.7 | 33  |
| 118 | Cyclic Voltammogram Profile of Single-Walled Carbon Nanotube Electric Double-Layer Capacitor Electrode Reveals Dumbbell Shape. <b>2012</b> , 116, 7681-7686  |     | 41  |
| 117 | Electrosynthesis of Polyaniline from Choline-Based Deep Eutectic Solvents: Morphology, Stability and Electrochromism. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, G97-G105                                  | 3.9 | 40  |
| 116 | Electrochemical double-layer charging of ultramicroporous synthetic carbons in aqueous electrolytes. <i>Electrochimica Acta</i> , <b>2012</b> , 86, 232-240  | 6.7 | 11  |
| 115 | Transport Properties of Tributylphosphonium Tetrafluoroborate Protic Ionic Liquid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 3170-3178  | 3.9 | 17  |
| 114 | Inelastic Scattering of Radicals at the Gas/Liquid Interface: Probing Surface Dynamics of BMIMCl, BMIMBF <sub>4</sub> , and BMIMPF <sub>2</sub> N by Rovibronic Scattering of NO [2 $\pi$ /2(0.5)]. <b>2012</b> , 116, 14284-14294 |     | 17  |
| 113 | Electrochemical reduction mechanisms and stabilities of some cation types used in ionic liquids and other organic salts. <i>Electrochimica Acta</i> , <b>2012</b> , 83, 513-528  | 6.7 | 69  |
| 112 | Orientational ordering of ionic liquids near a charged mica surface. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1764-71   | 3.2 | 33  |
| 111 | Oligomeric siloxane containing triphenylphosphonium phosphate as a novel flame retardant for polycarbonate. <b>2012</b> , 97, 638-644  |     | 34  |
| 110 | Capillary Condensation of Ionic Liquid Solutions in Porous Electrodes. <b>2013</b> , 117, 1728-1734  |     | 11  |
| 109 | Ether-Bond-Containing Ionic Liquids as Supercapacitor Electrolytes. <b>2013</b> , 4, 2970-2974   |     | 53  |
| 108 | An investigation about the cycling stability of supercapacitors containing protic ionic liquids as electrolyte components. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 226-231   | 6.7 | 56  |
| 107 | Optimizing the performance of supercapacitors based on carbon electrodes and protic ionic liquids as electrolytes. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 361-368   | 6.7 | 42  |

|     |  |     |      |
|-----|--|-----|------|
| 106 | Wetting behavior of ionic liquid on mesoporous titanium dioxide surface by atomic force microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2692-8  | 9.5 | 19   |
| 105 | An investigation about the use of mixtures of sulfonium-based ionic liquids and propylene carbonate as electrolytes for supercapacitors. <b>2013</b> , 1, 12669  |     | 42   |
| 104 | Ion Size to Pore Width Ratio as a Factor that Determines the Electrochemical Stability Window of Activated Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A629-A635   | 3.9 | 17   |
| 103 | Improving Performance of Electric Double Layer Capacitors with a Mixture of Ionic Liquid and Acetonitrile as the Electrolyte by Using Mass-Balancing Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A2064-A2069 | 3.9 | 26   |
| 102 | Manufacturing of Industrial Supercapacitors. <b>2013</b> , 307-371   |     | 11   |
| 101 | Electrode Materials with Pseudocapacitive Properties. <b>2013</b> , 207-237  |     | 18   |
| 100 | EDLCs Based on Solvent-Free Ionic Liquids. <b>2013</b> , 289-306   |     | 6    |
| 99  | Mechanical Properties and UV Curing Behavior of Poly(N-Isopropylacrylamide) in Phosphonium-Based Ionic Liquids. <b>2013</b> , 214, 787-796   |     | 17   |
| 98  | High performance graphene-poly (o-anisidine) nanocomposite for supercapacitor applications. <b>2013</b> , 141, 263-271   |     | 22   |
| 97  | A new conducting salt for high voltage propylene carbonate-based electrochemical double layer capacitors. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 221-227  | 6.7 | 49   |
| 96  | Thermophysical Properties of Ionic Liquid with Thiocyanate and Dicynamide Anions. <b>2013</b> , 594-595, 953-957   |     |      |
| 95  | Influence of Different Organic Solvent Additives on 1-ethyl-3-methylimidazolium Tetrafluoroborate Electrolyte Based Electrical Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1741-A1745                 | 3.9 | 13   |
| 94  | Carbon Nanotubes for Energy Applications. <b>2013</b> ,  |     | 11   |
| 93  | Encyclopedia of Applied Electrochemistry. <b>2014</b> , 1112-1116  |     |      |
| 92  | Carbons and electrolytes for advanced supercapacitors. <b>2014</b> , 26, 2219-51, 2283   |     | 1808 |
| 91  | Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. <b>2014</b> , 193, 110-116   |     | 23   |
| 90  | Strategies for enhancing the performance of carbon/carbon supercapacitors in aqueous electrolytes. <i>Electrochimica Acta</i> , <b>2014</b> , 128, 210-217   | 6.7 | 39   |
| 89  | High performance of symmetric micro-supercapacitors based on silicon nanowires using N-methyl-N-propylpyrrolidinium bis(trifluoromethylsulfonyl)imide as electrolyte. <b>2014</b> , 9, 273-281   |     | 63   |

|    |   |      |      |
|----|---|------|------|
| 88 | A review of molecular modelling of electric double layer capacitors. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 6519-38   | 3.6  | 168  |
| 87 | Phosphonium cation-containing polymers: From ionic liquids to polyelectrolytes. <b>2014</b> , 55, 3298-3304   |      | 67   |
| 86 | Advanced Materials for Supercapacitors. <b>2015</b> , 423-449   |      |      |
| 85 | Sieving Effects in Electrical Double-Layer Capacitors Based on Neat [Al(hfip) <sub>4</sub> ] <sup>+</sup> and [NTf <sub>2</sub> ] <sup>-</sup> Ionic Liquids. <i>ChemElectroChem</i> , <b>2015</b> , 2, 829-836 | 4.3  | 5    |
| 84 | Ionic Liquids and Polymers in Energy. <b>2015</b> , 199-229   |      | 1    |
| 83 | A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 7484-539  | 58.5 | 2002 |
| 82 | Organic/Inorganic Hybrid Membranes Based on Sulfonated Poly(ether ether ketone) and Tetrabutylphosphonium Bromide Ionic Liquid for PEM Fuel Cell Applications. <b>2015</b> , 2015, 1282-1289                    |      | 6    |
| 81 | Low-viscosity ether-functionalized pyrazolium ionic liquids based on dicyanamide anions: properties and application as electrolytes for lithium metal batteries. <b>2015</b> , 5, 93888-93899                   |      | 13   |
| 80 | Impact of Film Thickness and Temperature on Ultrafast Excess Charge Dynamics in Ionic Liquid Films. <b>2015</b> , 119, 24417-24424  |      | 3    |
| 79 | Thickness-dependent structural arrangement in nano-confined imidazolium-based ionic liquid films. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 4152-9   | 3.6  | 14   |
| 78 | Modern Room Temperature Ionic Liquids, a Simple Guide to Understanding Their Structure and How It May Relate to Dynamics. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 12727-40                  | 3.4  | 205  |
| 77 | Thermophysical properties of phosphonium-based ionic liquids. <b>2015</b> , 400, 103-113  |      | 50   |
| 76 | Polymerized phosphonium-based ionic liquids as stationary phases in gas chromatography: performance improvements by addition of graphene oxide. <b>2015</b> , 39, 8560-8568                                     |      | 11   |
| 75 | Mixtures of Azepanium Based Ionic Liquids and Propylene Carbonate as High Voltage Electrolytes for Supercapacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 426-432                                     | 6.7  | 39   |
| 74 | Carbon materialization of ionic liquids: from solvents to materials. <b>2015</b> , 2, 168-197   |      | 135  |
| 73 | Diphenylphosphino Styrene-Containing Homopolymers: Influence of Alkylation and Mobile Anions on Physical Properties. <b>2016</b> , 37, 1212-7   |      | 4    |
| 72 | Ion adsorption mechanism of bundled single-walled carbon nanotubes. <b>2016</b> ,   |      |      |
| 71 | Communication: Nanoscale structure of tetradecyltrihexylphosphonium based ionic liquids. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 121102   | 3.9  | 36   |

|    |   |     |    |
|----|---|-----|----|
| 70 | Optimization of carbon nanotube ultracapacitor for cell design. <b>2016</b> , 119, 214311   |     | 3  |
| 69 | A group contribution model for prediction of the viscosity with temperature dependency for fluorine-containing ionic liquids. <b>2016</b> , 186, 19-27  |     | 10 |
| 68 | The properties of new epoxy networks swollen with ionic liquids. <b>2016</b> , 6, 56193-56204   |     | 22 |
| 67 | Electrolytes for Electrochemical Supercapacitors. <b>2016</b> , 31-254  |     | 4  |
| 66 | Understanding Spectroscopic Features of Trihexyltetradecylphosphonium Chloride. <b>2016</b> , 1, 741-747  |     | 5  |
| 65 | Phosphonium sulfonates as flame retardants for polycarbonate. <b>2016</b> , 130, 165-172  |     | 30 |
| 64 | Mathematical Modelling and Simulation of Supercapacitors. <b>2016</b> , 515-562   |     | 2  |
| 63 | Physicochemical and electrochemical properties of a new series of protic ionic liquids with N-chloroalkyl functionalized cations. <b>2016</b> , 6, 55144-55158  |     | 14 |
| 62 | New generation of hybrid carbon/Ni(OH) <sub>2</sub> electrochemical capacitor using functionalized carbon electrode. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 702-710   | 8.9 | 28 |
| 61 | Around the thermodynamic limitations of supercapacitors operating in aqueous electrolytes. <i>Electrochimica Acta</i> , <b>2016</b> , 206, 496-503  | 6.7 | 51 |
| 60 | Electrochemical energy storage in montmorillonite K10 clay based composite as supercapacitor using ionic liquid electrolyte. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 464, 73-82                             | 9.3 | 42 |
| 59 | Structural investigation of room-temperature ionic liquids and high-temperature ionic melts using triplet correlation functions. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 094503                                     | 3.9 | 9  |
| 58 | High Temperature Monolithic Biochar Supercapacitor Using Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H5043-H5048   | 3.9 | 26 |
| 57 | Thermophysical and Electrochemical Properties of Etheral Functionalised Cyclic Alkylammonium-based Ionic Liquids as Potential Electrolytes for Electrochemical Applications. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2040-2057      | 3.2 | 24 |
| 56 | Hydroxy functionalized ionic liquids as promising electrolytes for supercapacitor study of Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 11738-11748 | 2.1 | 8  |
| 55 | A Surprising Failure Mechanism in Symmetric Supercapacitors at High Voltages. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2660-2668   | 4.3 | 22 |
| 54 | Protic ionic liquids with N-chloroalkyl functionalized cations as electrolytes for carbon-based electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 971-980   | 6.7 | 10 |
| 53 | Influence of temperature on thermophysical properties of tri(butyl)methylphosphonium methyl sulfate + N-methyl-2-pyrrolidone. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 375-381                                      | 6   | 6  |

|    |  |     |     |
|----|--|-----|-----|
| 52 | Biredox ionic liquids with solid-like redox density in the liquid state for high-energy supercapacitors. <i>Nature Materials</i> , <b>2017</b> , 16, 446-453   | 27  | 233 |
| 51 | Ionic Liquid Facilitated Dehydrogenation of <i>n</i> -Butylamine Borane. <i>ACS Omega</i> , <b>2018</b> , 3, 2273-2281   | 3.9 | 7   |
| 50 | A comparison of protic and aprotic ionic liquids as effective activating agents of kraft lignin. Developing functional MnO <sub>2</sub> /lignin hybrid materials. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 261, 456-467   | 6   | 17  |
| 49 | Geminal dicationic ionic liquid functionalized graphene nanoribbon/POAP composite film: synthesis, characterization and electrochemical pseudocapacitance performance. <i>Ionics</i> , <b>2018</b> , 24, 2083-2092   | 2.7 | 21  |
| 48 | Lithium salt assisted enhanced performance of supercapacitor based on quasi solid-state electrolyte. <i>Journal of Saudi Chemical Society</i> , <b>2018</b> , 22, 838-845  | 4.3 | 5   |
| 47 | Biredox ionic liquids: new opportunities toward high performance supercapacitors. <i>Faraday Discussions</i> , <b>2018</b> , 206, 393-404  | 3.6 | 24  |
| 46 | P-type conductive polymer/zeolitic imidazolate framework-67 (ZIF-67) nanocomposite film: Synthesis, characterization, and electrochemical performance as efficient electrode materials in pseudocapacitors. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 509, 189-194 | 9.3 | 57  |
| 45 | Electrochemical properties of positive electrode in lead-acid battery modified by ammonium-based ionic liquids. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 919-930   | 2.6 | 10  |
| 44 | Roll-to-Roll Laser-Printed Graphene-Graphitic Carbon Electrodes for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1033-1038  | 9.5 | 21  |
| 43 | Molecular dynamics study of room temperature ionic liquids with water at mica surface. <i>Green Energy and Environment</i> , <b>2018</b> , 3, 120-128  | 5.7 | 19  |
| 42 | Gelled Electrolyte Containing Phosphonium Ionic Liquids for Lithium-Ion Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,   | 5.4 | 12  |
| 41 | 4.22 Electrochemical Energy Conversion. <b>2018</b> , 856-894  |     | 1   |
| 40 | Positive electrode material in lead-acid car battery modified by protic ammonium ionic liquid. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100996   | 7.8 | 10  |
| 39 | Temperature-dependent structure and transport of ionic liquids with short-and intermediate-chain length pyrrolidinium cations. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 279, 23-31  | 6   | 11  |
| 38 | Phosphonium-based ionic liquids as electrolyte for supercapacitors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2019</b> , 194, 388-390  | 1   | 2   |
| 37 | Reactive insights into the hydrogen production from ammonia borane facilitated by phosphonium based ionic liquid. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 456-467  | 2.8 | 4   |
| 36 | Cell optimisation of supercapacitors using a quasi-reference electrode and potentiostatic analysis. <i>Journal of Power Sources</i> , <b>2019</b> , 424, 52-60   | 8.9 | 8   |
| 35 | Background, fundamental understanding and progress in electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 667-692   | 2.6 | 33  |



|    |   |      |     |
|----|---|------|-----|
| 34 | Electrolytes based on N-Butyl-N-Methyl-Pyrrolidinium 4,5-Dicyano-2-(Trifluoromethyl) Imidazole for High Voltage Electrochemical Double Layer Capacitors. <i>ChemElectroChem</i> , <b>2019</b> , 6, 552-557                          | 4.3  | 3   |
| 33 | Ionic Liquids as Environmentally Benign Electrolytes for High-Performance Supercapacitors. <i>Global Challenges</i> , <b>2019</b> , 3, 1800023  | 4.3  | 23  |
| 32 | Polymer Electrolytes for Supercapacitor and Challenges. <b>2020</b> , 231-297   |      | 5   |
| 31 | Dielectric properties of acetonitrile confined in carbon nanotubes. <i>Chemical Physics</i> , <b>2020</b> , 530, 110598   | 2.3  | 4   |
| 30 | Effect of temperature on irreversible and reversible heat generation rates in ionic liquid-based electric double layer capacitors. <i>Electrochimica Acta</i> , <b>2020</b> , 338, 135802   | 6.7  | 7   |
| 29 | Molecular simulation of osmometry in aqueous solutions of the BMIMCl ionic liquid: a potential route to force field parameterization of liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 28325-28338 | 3.6  | 0   |
| 28 | All-Solid-State Asymmetric Supercapacitors with Novel Ionic Liquid Gel Electrolytes. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3906-3914   | 4    | 5   |
| 27 | Three-Dimensional Architectures in Electrochemical Capacitor Applications Insights, Opinions, and Perspectives. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,  | 3.8  | 1   |
| 26 | Effect of Aromaticity in Anion on the Cation-Anion Interactions and Ionic Mobility in Fluorine-Free Ionic Liquids. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 11962-11973  | 3.4  | 4   |
| 25 | Application of Ionic Liquids in Electrochemistry-Recent Advances. <i>Molecules</i> , <b>2020</b> , 25,  | 4.8  | 28  |
| 24 | Effect of temperature on molecular interactions between tri(butyl)methylphosphonium methylsulfate and furfural. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 149, 106150   | 2.9  | 3   |
| 23 | 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  |
| 22 | Electrolyte materials for supercapacitors. <b>2020</b> , 205-314  |      | 3   |
| 21 | Practical synthesis of phosphonium salts with orthoformates and their application as flame retardants in polycarbonate. <i>Tetrahedron</i> , <b>2020</b> , 76, 131107   | 2.4  | 3   |
| 20 | Thermal and spectroscopic investigations on three phosphonium based ionic liquids for industrial and biological applications. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 307, 112960                                       | 6    | 8   |
| 19 | X-ray scattering investigation of ion aggregation in imidazolium-based ionic liquids upon doping with lithium, sodium, potassium, rubidium and cesium salts. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 302, 112540        | 6    | 1   |
| 18 | An interesting theoretical insight into CO <sub>2</sub> capture of phosphonium-based ionic liquids with aprotic heterocyclic anions. <i>Structural Chemistry</i> , <b>2020</b> , 31, 1095-1111                                      | 1.8  | 1   |
| 17 | Nanoporous carbon for electrochemical capacitive energy storage. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 3005-3039  | 58.5 | 169 |

|    |   |      |   |
|----|---|------|---|
| 16 | Transport properties of nitrile and carbonate solutions of [P66614][NTF] ionic liquid, its thermal degradation and non-isothermal kinetics of decomposition. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 23909-23921     | 3.6  | 0 |
| 15 | Phase Changing Materials Based Super Capacitors. <b>2021</b> ,  |      |   |
| 14 | Molecular-level insights into structure and dynamics in ionic liquids and polymer gel electrolytes. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 329, 115454   | 6    | 3 |
| 13 | One-Step Synthesis of Triphenylphosphonium Salts from (Het)arylmethyl Alcohols. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 9838-9846   | 4.2  | 0 |
| 12 | High voltage electrochemical capacitors operating at elevated temperature based on 1,1-dimethylpyrrolidinium tetrafluoroborate. <i>Energy Storage Materials</i> , <b>2022</b> , 44, 66-72   | 19.4 | 4 |
| 11 | Structure and Capacitance of Electrical Double Layers in Tricationic Ionic Liquids with Organic Solvents. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 12753-12762   | 3.4  | 0 |
| 10 | Impact of confinement and polarizability on dynamics of ionic liquids.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 064703  | 3.9  | 0 |
| 9  | A comprehensive review on batteries and supercapacitors: Development and challenges since their inception. <i>Energy Storage</i> ,  | 2.8  | 2 |
| 8  | Synthesis and Characterization of Fluorinated Phosphonium Ionic Liquids to Use as New Engineering Solvents. <i>ChemEngineering</i> , <b>2022</b> , 6, 38  | 2.6  |   |
| 7  | Examining the Electrochemical Nature of an Ionogel Based on the Ionic Liquid [P66614][TFSI] and TiO <sub>2</sub> : Synthesis, Characterization, and Quantum Chemical Calculations. <i>Industrial &amp; Engineering Chemistry Research</i> , | 3.9  |   |
| 6  | Holding it together: noncovalent cross-linking strategies for ionogels and eutectogels.   |      | 0 |
| 5  | Low Temperature Supercapacitor with Electrolyte Based on Hydrogen Fluoride and Ionic Liquid. <b>2022</b> , 58, 807-811  |      | 0 |
| 4  | Effects of Dilution in Ionic Liquid Supercapacitors.  |      | 0 |
| 3  | Novel imidazole-based, ionic liquid: Synthetics linked to enhancing the life cycle of lead-acid batteries. <b>2022</b> , 56, 105932   |      | 0 |
| 2  | Frontiers and recent developments on supercapacitor\$ materials, design, and applications: Transport and power system applications. <b>2023</b> , 58, 106104  |      | 0 |
| 1  | Structure-Bioactivity Relationship of the Functionalized Polysulfone with Triethylphosphonium Pendant Groups: Perspective for Biomedical Applications. <b>2023</b> , 15, 877  |      | 0 |