## **Rupesh Rohan**

List of Publications by Year in descending order

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RUDESH ROHAN

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Enhancement of the High-Rate Performance of an Organic Radical Thin-Film Battery by Decreasing the<br>Grafting Density of Polymer Brushes. ACS Applied Polymer Materials, 2022, 4, 2365-2372.  | 4.4  | 11        |
| 2  | Investigation of supercapacitor cyclic degradation through impedance spectroscopy and Randles circuit model. Energy Storage, 2022, 4, .  | 4.3  | 6         |
| 3  | Two-dimensional molybdenum trioxide nanoflakes wrapped with interlayer-expanded molybdenum<br>disulfide nanosheets: Superior performances in supercapacitive energy storage and<br>visible-light-driven photocatalysis. International Journal of Hydrogen Energy, 2021, 46, 34663-34678. | 7.1  | 6         |
| 4  | Carbon clothâ€MnO <sub>2</sub> nanotube composite for flexible supercapacitor. Energy Storage,<br>2020, 2, e189.   | 4.3  | 20        |
| 5  | Performance optimization of Co2O3-PVDF-CNT-based supercapacitor electrode through multi-response optimization method. Ionics, 2019, 25, 5991-6005.   | 2.4  | 15        |
| 6  | Investigation of compressed hydrogen refueling process of 60 L type IV tank used in fuel cell vehicles.<br>Energy Storage, 2019, 1, e91.   | 4.3  | 9         |
| 7  | Flexible supercapacitor based on threeâ€dimensional cellulose/graphite/polyaniline composite.<br>International Journal of Energy Research, 2019, 43, 604-611.  | 4.5  | 55        |
| 8  | Ambient temperature hydrogen storage in porous materials with exposed metal sites. International<br>Journal of Hydrogen Energy, 2017, 42, 6801-6809.   | 7.1  | 15        |
| 9  | Nanofiber Singleâ€ion Conducting Electrolytes: An Approach for Highâ€Performance Lithium Batteries at<br>Ambient Temperature. ChemElectroChem, 2017, 4, 2178-2183.   | 3.4  | 11        |
| 10 | Hierarchy concomitant in situ stable iron(II)â^'carbon source manipulation using ferrocenecarboxylic<br>acid for hydrothermal synthesis of LiFePO4 as high-capacity battery cathode. Electrochimica Acta,<br>2017, 253, 227-238.   | 5.2  | 12        |
| 11 | A pre-lithiated phloroglucinol based 3D porous framework as a single ion conducting electrolyte for<br>lithium ion batteries. RSC Advances, 2016, 6, 53140-53147.  | 3.6  | 14        |
| 12 | A green and facile approach for hydrothermal synthesis of LiFePO 4 using iron metal directly.<br>Electrochimica Acta, 2016, 220, 164-168.  | 5.2  | 33        |
| 13 | Dinitrile–Mononitrile-Based Electrolyte System for Lithium-Ion Battery Application with the<br>Mechanism of Reductive Decomposition of Mononitriles. Journal of Physical Chemistry C, 2016, 120,<br>6450-6458.   | 3.1  | 33        |
| 14 | Toward ambient temperature operation with all-solid-state lithium metal batteries with a sp<br>boron-based solid single ion conducting polymer electrolyte. Journal of Power Sources, 2016, 306,<br>152-161.   | 7.8  | 73        |
| 15 | A novel sp <sup>3</sup> Al-based porous single-ion polymer electrolyte for lithium ion batteries. RSC<br>Advances, 2015, 5, 32343-32349.   | 3.6  | 9         |
| 16 | Polymeric organo–magnesium complex for room temperature hydrogen physisorption. RSC Advances, 2015, 5, 10886-10891.  | 3.6  | 21        |
| 17 | Melamine–terephthalaldehyde–lithium complex: a porous organic network based single ion<br>electrolyte for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 5132-5139.   | 10.3 | 46        |
| 18 | A high performance polysiloxane-based single ion conducting polymeric electrolyte membrane for application in lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 20267-20276.   | 10.3 | 83        |

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|----|---|------|-----------|
| 19 | A Polyamide Single″on Electrolyte Membrane for Application in Lithium″on Batteries. Energy<br>Technology, 2014, 2, 698-704.   | 3.8  | 31        |
| 20 | Lithiumâ€lon Batteries with a Wide Temperature Range Operability Enabled by Highly Conductive<br>sp <sup>3</sup> Boronâ€Based Single Ion Polymer Electrolytes. Energy Technology, 2014, 2, 643-650. | 3.8  | 26        |
| 21 | Fabrication of a proton exchange membrane via blended sulfonimide functionalized polyamide.<br>Journal of Materials Science, 2014, 49, 3442-3450.   | 3.7  | 38        |
| 22 | Functionalized polystyrene based single ion conducting gel polymer electrolyte for lithium batteries.<br>Solid State Ionics, 2014, 268, 294-299.  | 2.7  | 66        |
| 23 | Highly selective carbon dioxide adsorption on exposed magnesium metals in a cross-linked organo-magnesium complex. Journal of Materials Chemistry A, 2014, 2, 13534-13540.                          | 10.3 | 21        |
| 24 | Hydrogen physisorption in ionic solid compounds with exposed metal cations at room temperature.<br>RSC Advances, 2014, 4, 33905-33910.  | 3.6  | 8         |
| 25 | Influence of Chemical Microstructure of Single-Ion Polymeric Electrolyte Membranes on<br>Performance of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 17534-17542.            | 8.0  | 57        |
| 26 | A gel single ion polymer electrolyte membrane for lithium-ion batteries with wide-temperature range operability. RSC Advances, 2014, 4, 21163-21170.  | 3.6  | 45        |
| 27 | Synthesis, Characterization and Battery Performance of A Lithium Poly (4-vinylphenol) Phenolate<br>Borate Composite Membrane. Electrochimica Acta, 2014, 139, 264-269.                              | 5.2  | 28        |
| 28 | Design and synthesis of a single ion conducting block copolymer electrolyte with multifunctionality for lithium ion batteries. RSC Advances, 2014, 4, 43857-43864.                                  | 3.6  | 40        |
| 29 | Functionalized meso/macro-porous single ion polymeric electrolyte for applications in lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 2960-2967.                                  | 10.3 | 55        |
| 30 | A lithium poly(pyromellitic acid borate) gel electrolyte membrane for lithium-ion batteries. Journal of<br>Materials Science, 2014, 49, 6111-6117.  | 3.7  | 22        |
| 31 | Room Temperature Hydrogen Physisorption on Exposed Metals in A Highly Crossâ€Linked Organoâ€Iron<br>Complex. Advanced Materials Interfaces, 2014, 1, 1400107.                                       | 3.7  | 11        |
| 32 | A class of sp3 boron-based single-ion polymeric electrolytes for lithium ion batteries. RSC Advances, 2013, 3, 14934.   | 3.6  | 34        |