

Soowhan Kim

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,891
citations

304743

22
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

2899
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Flexible graphite bipolar plates for vanadium redox flow batteries. <i>International Journal of Energy Research</i> , 2021, 45, 11098-11108. | 4.5 | 10 |
| 2 | A two-dimensional analytical unit cell model for redox flow battery evaluation and optimization. <i>Journal of Power Sources</i> , 2021, 506, 230192. | 7.8 | 15 |
| 3 | Multiple parameter identification using genetic algorithm in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2020, 450, 227684. | 7.8 | 33 |
| 4 | Computational study of effects of contact resistance on a large-scale vanadium redox flow battery stack. <i>International Journal of Energy Research</i> , 2019, 43, 2343-2360. | 4.5 | 12 |
| 5 | A review of vanadium electrolytes for vanadium redox flow batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 263-274. | 16.4 | 336 |
| 6 | Resistor Design for the Use of Dynamic Hydrogen Electrode in Vanadium Redox Flow Batteries. <i>Electrochimica Acta</i> , 2016, 213, 490-495. | 5.2 | 14 |
| 7 | Cost and performance model for redox flow batteries. <i>Journal of Power Sources</i> , 2014, 247, 1040-1051. | 7.8 | 329 |
| 8 | Composite blend polymer membranes with increased proton selectivity and lifetime for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2013, 231, 301-306. | 7.8 | 36 |
| 9 | 1kWh/1kWh advanced vanadium redox flow battery utilizing mixed acid electrolytes. <i>Journal of Power Sources</i> , 2013, 237, 300-309. | 7.8 | 160 |
| 10 | Electrochemical Model of the Fe/V Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1993-A2000. | 2.9 | 23 |
| 11 | Stable fluorinated sulfonated poly(arylene ether) membranes for vanadium redox flow batteries. <i>RSC Advances</i> , 2012, 2, 8087. | 3.6 | 68 |
| 12 | Vanadium redox flow battery efficiency and durability studies of sulfonated Diels Alder poly(phenylene)s. <i>Electrochemistry Communications</i> , 2012, 20, 48-51. | 4.7 | 110 |
| 13 | Investigation of local environments in Nafion/SiO ₂ composite membranes used in vanadium redox flow batteries. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 42, 71-80. | 2.3 | 61 |
| 14 | Chloride supporting electrolytes for all-vanadium redox flow batteries. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18186. | 2.8 | 126 |
| 15 | A new redox flow battery using Fe/V redox couples in chloride supporting electrolyte. <i>Energy and Environmental Science</i> , 2011, 4, 4068. | 30.8 | 181 |
| 16 | Effects of additives on the stability of electrolytes for all-vanadium redox flow batteries. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 1215-1221. | 2.9 | 118 |
| 17 | Chemical and mechanical degradation of sulfonated poly(sulfone) membranes in vanadium redox flow batteries. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 1201-1213. | 2.9 | 150 |
| 18 | Correlation of structural differences between Nafion/polyaniline and Nafion/polypyrrole composite membranes and observed transport properties. <i>Journal of Membrane Science</i> , 2011, 372, 11-19. | 8.2 | 79 |

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|----|---|------|-----------|
| 19 | A Stable Vanadium Redox Flow Battery with High Energy Density for Large-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2011, 1, 394-400. | 19.5 | 688 |
| 20 | Membrane Development for Vanadium Redox Flow Batteries. <i>ChemSusChem</i> , 2011, 4, 1388-1406. | 6.8 | 450 |
| 21 | Spectroscopic investigations of the fouling process on Nafion membranes in vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2011, 366, 325-334. | 8.2 | 107 |
| 22 | Impact of channel wall hydrophobicity on through-plane water distribution and flooding behavior in a polymer electrolyte fuel cell. <i>Electrochimica Acta</i> , 2010, 55, 2734-2745. | 5.2 | 142 |
| 23 | Cycling performance and efficiency of sulfonated poly(sulfone) membranes in vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2010, 12, 1650-1653. | 4.7 | 221 |
| 24 | Investigation of temperature-driven water transport in polymer electrolyte fuel cell: Thermo-osmosis in membranes. <i>Journal of Membrane Science</i> , 2009, 328, 113-120. | 8.2 | 121 |
| 25 | Investigation of Temperature-Driven Water Transport in Polymer Electrolyte Fuel Cell: Phase-Change-Induced Flow. <i>Journal of the Electrochemical Society</i> , 2009, 156, B353. | 2.9 | 112 |
| 26 | Physical degradation of membrane electrode assemblies undergoing freeze/thaw cycling: Diffusion media effects. <i>Journal of Power Sources</i> , 2008, 179, 140-146. | 7.8 | 129 |
| 27 | Characteristic Behavior of Polymer Electrolyte Fuel Cell Resistance during Cold Start. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1145. | 2.9 | 49 |
| 28 | Freeze-Induced Damage and Purge Based Mitigation in Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2007, 11, 577-586. | 0.5 | 11 |