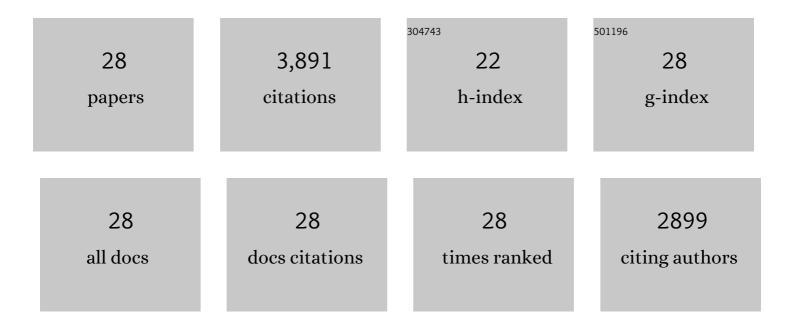
Soowhan Kim

List of Publications by Year in descending order

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SOOWHAN KIM

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Stable Vanadium Redoxâ€Flow Battery with High Energy Density for Largeâ€6cale Energy Storage. Advanced Energy Materials, 2011, 1, 394-400. | 19.5 | 688 |
| 2 | Membrane Development for Vanadium Redox Flow Batteries. ChemSusChem, 2011, 4, 1388-1406. | 6.8 | 450 |
| 3 | A review of vanadium electrolytes for vanadium redox flow batteries. Renewable and Sustainable Energy Reviews, 2017, 69, 263-274. | 16.4 | 336 |
| 4 | Cost and performance model for redox flow batteries. Journal of Power Sources, 2014, 247, 1040-1051. | 7.8 | 329 |
| 5 | Cycling performance and efficiency of sulfonated poly(sulfone) membranes in vanadium redox flow batteries. Electrochemistry Communications, 2010, 12, 1650-1653. | 4.7 | 221 |
| 6 | A new redox flow battery using Fe/V redox couples in chloride supporting electrolyte. Energy and Environmental Science, 2011, 4, 4068. | 30.8 | 181 |
| 7 | 1ÂkW/1ÂkWh advanced vanadium redox flow battery utilizing mixed acid electrolytes. Journal of Power Sources, 2013, 237, 300-309. | 7.8 | 160 |
| 8 | Chemical and mechanical degradation of sulfonated poly(sulfone) membranes in vanadium redox flow batteries. Journal of Applied Electrochemistry, 2011, 41, 1201-1213. | 2.9 | 150 |
| 9 | Impact of channel wall hydrophobicity on through-plane water distribution and flooding behavior in a polymer electrolyte fuel cell. Electrochimica Acta, 2010, 55, 2734-2745. | 5.2 | 142 |
| 10 | Physical degradation of membrane electrode assemblies undergoing freeze/thaw cycling: Diffusion media effects. Journal of Power Sources, 2008, 179, 140-146. | 7.8 | 129 |
| 11 | Chloride supporting electrolytes for all-vanadium redox flow batteries. Physical Chemistry Chemical Physics, 2011, 13, 18186. | 2.8 | 126 |
| 12 | Investigation of temperature-driven water transport in polymer electrolyte fuel cell: Thermo-osmosis in membranes. Journal of Membrane Science, 2009, 328, 113-120. | 8.2 | 121 |
| 13 | Effects of additives on the stability of electrolytes for all-vanadium redox flow batteries. Journal of Applied Electrochemistry, 2011, 41, 1215-1221. | 2.9 | 118 |
| 14 | Investigation of Temperature-Driven Water Transport in Polymer Electrolyte Fuel Cell: Phase-Change-Induced Flow. Journal of the Electrochemical Society, 2009, 156, B353. | 2.9 | 112 |
| 15 | Vanadium redox flow battery efficiency and durability studies of sulfonated Diels Alder poly(phenylene)s. Electrochemistry Communications, 2012, 20, 48-51. | 4.7 | 110 |
| 16 | Spectroscopic investigations of the fouling process on Nafion membranes in vanadium redox flow batteries. Journal of Membrane Science, 2011, 366, 325-334. | 8.2 | 107 |
| 17 | Correlation of structural differences between Nafion/polyaniline and Nafion/polypyrrole composite membranes and observed transport properties. Journal of Membrane Science, 2011, 372, 11-19. | 8.2 | 79 |
| 18 | Stable fluorinated sulfonated poly(arylene ether) membranes for vanadium redox flow batteries. RSC Advances, 2012, 2, 8087. | 3.6 | 68 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Investigation of local environments in Nafion–SiO2 composite membranes used in vanadium redox flow batteries. Solid State Nuclear Magnetic Resonance, 2012, 42, 71-80. | 2.3 | 61 |
| 20 | Characteristic Behavior of Polymer Electrolyte Fuel Cell Resistance during Cold Start. Journal of the Electrochemical Society, 2008, 155, B1145. | 2.9 | 49 |
| 21 | Composite blend polymer membranes with increased proton selectivity and lifetime for vanadium redox flow batteries. Journal of Power Sources, 2013, 231, 301-306. | 7.8 | 36 |
| 22 | Multiple parameter identification using genetic algorithm in vanadium redox flow batteries. Journal of Power Sources, 2020, 450, 227684. | 7.8 | 33 |
| 23 | Electrochemical Model of the Fe/V Redox Flow Battery. Journal of the Electrochemical Society, 2012, 159, A1993-A2000. | 2.9 | 23 |
| 24 | A two-dimensional analytical unit cell model for redox flow battery evaluation and optimization. Journal of Power Sources, 2021, 506, 230192. | 7.8 | 15 |
| 25 | Resistor Design for the Use of Dynamic Hydrogen Electrode in Vanadium Redox Flow Batteries. Electrochimica Acta, 2016, 213, 490-495. | 5.2 | 14 |
| 26 | Computational study of effects of contact resistance on a large-scale vanadium redox flow battery stack. International Journal of Energy Research, 2019, 43, 2343-2360. | 4.5 | 12 |
| 27 | Freeze-Induced Damage and Purge Based Mitigation in Polymer Electrolyte Fuel Cells. ECS Transactions, 2007, 11, 577-586. | 0.5 | 11 |
| 28 | Flexible graphite bipolar plates for vanadium redox flow batteries. International Journal of Energy Research, 2021, 45, 11098-11108. | 4.5 | 10 |