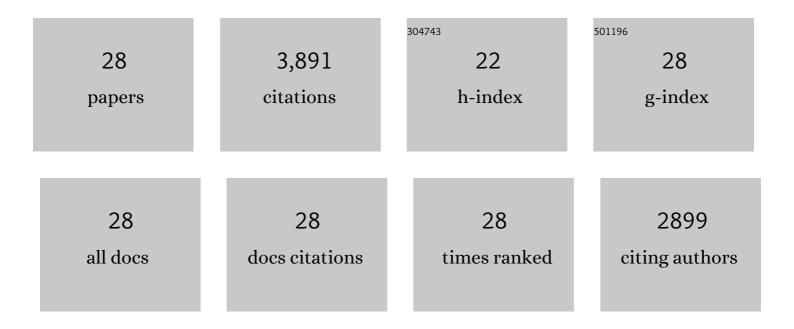
Soowhan Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Flexible graphite bipolar plates for vanadium redox flow batteries. International Journal of Energy Research, 2021, 45, 11098-11108.	4.5	10
2	A two-dimensional analytical unit cell model for redox flow battery evaluation and optimization. Journal of Power Sources, 2021, 506, 230192.	7.8	15
3	Multiple parameter identification using genetic algorithm in vanadium redox flow batteries. Journal of Power Sources, 2020, 450, 227684.	7.8	33
4	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
5	A review of vanadium electrolytes for vanadium redox flow batteries. Renewable and Sustainable Energy Reviews, 2017, 69, 263-274.	16.4	336
6	Resistor Design for the Use of Dynamic Hydrogen Electrode in Vanadium Redox Flow Batteries. Electrochimica Acta, 2016, 213, 490-495.	5.2	14
7	Cost and performance model for redox flow batteries. Journal of Power Sources, 2014, 247, 1040-1051.	7.8	329
8	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
9	1ÂkW/1ÂkWh advanced vanadium redox flow battery utilizing mixed acid electrolytes. Journal of Power Sources, 2013, 237, 300-309.	7.8	160
10	Electrochemical Model of the Fe/V Redox Flow Battery. Journal of the Electrochemical Society, 2012, 159, A1993-A2000.	2.9	23
11	Stable fluorinated sulfonated poly(arylene ether) membranes for vanadium redox flow batteries. RSC Advances, 2012, 2, 8087.	3.6	68
12	Vanadium redox flow battery efficiency and durability studies of sulfonated Diels Alder poly(phenylene)s. Electrochemistry Communications, 2012, 20, 48-51.	4.7	110
13	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
14	Chloride supporting electrolytes for all-vanadium redox flow batteries. Physical Chemistry Chemical Physics, 2011, 13, 18186.	2.8	126
15	A new redox flow battery using Fe/V redox couples in chloride supporting electrolyte. Energy and Environmental Science, 2011, 4, 4068.	30.8	181
16	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
17	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
18	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

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#	Article	IF	CITATIONS
19	A Stable Vanadium Redoxâ€Flow Battery with High Energy Density for Largeâ€Scale Energy Storage. Advanced Energy Materials, 2011, 1, 394-400.	19.5	688
20	Membrane Development for Vanadium Redox Flow Batteries. ChemSusChem, 2011, 4, 1388-1406.	6.8	450
21	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
22	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
23	Cycling performance and efficiency of sulfonated poly(sulfone) membranes in vanadium redox flow batteries. Electrochemistry Communications, 2010, 12, 1650-1653.	4.7	221
24	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
25	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
26	Physical degradation of membrane electrode assemblies undergoing freeze/thaw cycling: Diffusion media effects. Journal of Power Sources, 2008, 179, 140-146.	7.8	129
27	Characteristic Behavior of Polymer Electrolyte Fuel Cell Resistance during Cold Start. Journal of the Electrochemical Society, 2008, 155, B1145.	2.9	49
28	Freeze-Induced Damage and Purge Based Mitigation in Polymer Electrolyte Fuel Cells. ECS Transactions, 2007, 11, 577-586.	0.5	11