

# Zeng, Yikai

## List of Publications by Year in descending order

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31  
papers

2,468  
citations

218592

26  
h-index

434063

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1725  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of all-vanadium and iron-chromium redox flow batteries for large-scale energy storage. <i>Journal of Power Sources</i> , 2015, 300, 438-443.	4.0	251
2	Copper nanoparticle-deposited graphite felt electrodes for all vanadium redox flow batteries. <i>Applied Energy</i> , 2016, 180, 386-391.	5.1	166
3	A high-performance dual-scale porous electrode for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 325, 329-336.	4.0	157
4	Critical transport issues for improving the performance of aqueous redox flow batteries. <i>Journal of Power Sources</i> , 2017, 339, 1-12.	4.0	154
5	A high-performance flow-field structured iron-chromium redox flow battery. <i>Journal of Power Sources</i> , 2016, 324, 738-744.	4.0	145
6	Highly catalytic and stabilized titanium nitride nanowire array-decorated graphite felt electrodes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2017, 341, 318-326.	4.0	134
7	A vanadium redox flow battery model incorporating the effect of ion concentrations on ion mobility. <i>Applied Energy</i> , 2015, 158, 157-166.	5.1	118
8	A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. <i>Applied Energy</i> , 2019, 238, 435-441.	5.1	113
9	A highly permeable and enhanced surface area carbon-cloth electrode for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 329, 247-254.	4.0	111
10	High-performance zinc bromine flow battery via improved design of electrolyte and electrode. <i>Journal of Power Sources</i> , 2017, 355, 62-68.	4.0	111
11	Performance enhancement of iron-chromium redox flow batteries by employing interdigitated flow fields. <i>Journal of Power Sources</i> , 2016, 327, 258-264.	4.0	93
12	Highly stable pyridinium-functionalized cross-linked anion exchange membranes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 331, 452-461.	4.0	92
13	Modeling of lithium-sulfur batteries incorporating the effect of Li <sub>2</sub> S precipitation. <i>Journal of Power Sources</i> , 2016, 336, 115-125.	4.0	87
14	The effects of design parameters on the charge-discharge performance of iron-chromium redox flow batteries. <i>Applied Energy</i> , 2016, 182, 204-209.	5.1	83
15	Modeling of ion transport through a porous separator in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 327, 67-76.	4.0	80
16	Performance of a vanadium redox flow battery with a VANADion membrane. <i>Applied Energy</i> , 2016, 180, 353-359.	5.1	68
17	Unraveling the Positive Roles of Point Defects on Carbon Surfaces in Nonaqueous Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18394-18402.	1.5	50
18	Polyvinylpyrrolidone-based semi-interpenetrating polymer networks as highly selective and chemically stable membranes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 327, 374-383.	4.0	46

#	ARTICLE	IF	CITATIONS
19	A self-cleaning Li-S battery enabled by a bifunctional redox mediator. <i>Journal of Power Sources</i> , 2017, 361, 203-210.	4.0	46
20	A low-cost iron-cadmium redox flow battery for large-scale energy storage. <i>Journal of Power Sources</i> , 2016, 330, 55-60.	4.0	44
21	Titanium Carbide Nanoparticle-Decorated Electrode Enables Significant Enhancement in Performance of All-Vanadium Redox Flow Batteries. <i>Energy Technology</i> , 2016, 4, 990-996.	1.8	42
22	A hydrogen-ferric ion rebalance cell operating at low hydrogen concentrations for capacity restoration of iron-chromium redox flow batteries. <i>Journal of Power Sources</i> , 2017, 352, 77-82.	4.0	42
23	Numerical study on thermal stresses of a planar solid oxide fuel cell. <i>International Journal of Thermal Sciences</i> , 2014, 77, 1-10.	2.6	41
24	A novel tin-bromine redox flow battery for large-scale energy storage. <i>Applied Energy</i> , 2019, 255, 113756.	5.1	39
25	Mathematical modeling and numerical analysis of alkaline zinc-iron flow batteries for energy storage applications. <i>Chemical Engineering Journal</i> , 2021, 405, 126684.	6.6	39
26	A novel iron-lead redox flow battery for large-scale energy storage. <i>Journal of Power Sources</i> , 2017, 346, 97-102.	4.0	29
27	Effects of in-situ bismuth catalyst electrodeposition on performance of vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2021, 506, 230238.	4.0	29
28	Numerical investigations of effects of the interdigitated channel spacing on overall performance of vanadium redox flow batteries. <i>Journal of Energy Storage</i> , 2020, 32, 101781.	3.9	23
29	Economic analysis of hydrogen-powered data center. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27841-27850.	3.8	16
30	Sensitivity Analysis for a Planar SOFC: Size Effects of the Porous Gas Diffusion Layer Underneath the Channel Rib. <i>Fuel Cells</i> , 2014, 14, 123-134.	1.5	13
31	A high efficiency electric heater based on dual-helical tube and screw-tape for instant water heating. <i>Applied Thermal Engineering</i> , 2019, 160, 114018.	3.0	6