# Zeng, Yikai

List of Publications by Year
in descending order



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|---|---|---|---|
| 31 papers | 2,468 citations | 218677 26 h-index | 434195 31 g-index |
| 31 all docs | 31 docs citations | 31 times ranked | 1725 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mathematical modeling and numerical analysis of alkaline zinc-iron flow batteries for energy storage applications. Chemical Engineering Journal, 2021, 405, 126684. | 12.7 | 39 |
| 2 | Economic analysis of hydrogen-powered data center. International Journal of Hydrogen Energy, 2021, 46, 27841-27850. | 7.1 | 16 |
| 3 | Effects of in-situ bismuth catalyst electrodeposition on performance of vanadium redox flow batteries. Journal of Power Sources, 2021, 506, 230238. | 7.8 | 29 |
| 4 | Numerical investigations of effects of the interdigitated channel spacing on overall performance of vanadium redox flow batteries. Journal of Energy Storage, 2020, 32, 101781. | 8.1 | 23 |
| 5 | A high efficiency electric heater based on dual-helical tube and screw-tape for instant water heating. Applied Thermal Engineering, 2019, 160, 114018. | 6.0 | 6 |
| 6 | A novel tin-bromine redox flow battery for large-scale energy storage. Applied Energy, 2019, 255, 113756. | 10.1 | 39 |
| 7 | A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. Applied Energy, 2019, 238, 435-441. | 10.1 | 113 |
| 8 | A novel iron-lead redox flow battery for large-scale energy storage. Journal of Power Sources, 2017, 346, 97-102. | 7.8 | 29 |
| 9 | High-performance zinc bromine flow battery via improved design of electrolyte and electrode. Journal of Power Sources, 2017, 355, 62-68. | 7.8 | 111 |
| 10 | Critical transport issues for improving the performance of aqueous redox flow batteries. Journal of Power Sources, 2017, 339, 1-12. | 7.8 | 154 |
| 11 | A hydrogen-ferric ion rebalance cell operating at low hydrogen concentrations for capacity restoration of iron-chromium redox flow batteries. Journal of Power Sources, 2017, 352, 77-82. | 7.8 | 42 |
| 12 | Highly catalytic and stabilized titanium nitride nanowire array-decorated graphite felt electrodes for all vanadium redox flow batteries. Journal of Power Sources, 2017, 341, 318-326. | 7.8 | 134 |
| 13 | A self-cleaning Li-S battery enabled by a bifunctional redox mediator. Journal of Power Sources, 2017, 361, 203-210. | 7.8 | 46 |
| 14 | Titanium Carbide Nanoparticleâ€Đecorated Electrode Enables Significant Enhancement in Performance of Allâ€Vanadium Redox Flow Batteries. Energy Technology, 2016, 4, 990-996. | 3.8 | 42 |
| 15 | A low-cost iron-cadmium redox flow battery for large-scale energy storage. Journal of Power Sources, 2016, 330, 55-60. | 7.8 | 44 |
| 16 | Highly stable pyridinium-functionalized cross-linked anion exchange membranes for all vanadium redox flow batteries. Journal of Power Sources, 2016, 331, 452-461. | 7.8 | 92 |
| 17 | Unraveling the Positive Roles of Point Defects on Carbon Surfaces in Nonaqueous Lithiumâ€“Oxygen Batteries. Journal of Physical Chemistry C, 2016, 120, 18394-18402. | 3.1 | 50 |
| 18 | Polyvinylpyrrolidone-based semi-interpenetrating polymer networks as highly selective and chemically stable membranes for all vanadium redox flow batteries. Journal of Power Sources, 2016, 327, 374-383. | 7.8 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Copper nanoparticle-deposited graphite felt electrodes for all vanadium redox flow batteries. Applied Energy, 2016, 180, 386-391. | 10.1 | 166 |
| 20 | Performance of a vanadium redox flow battery with a VANADion membrane. Applied Energy, 2016, 180, 353-359. | 10.1 | 68 |
| 21 | A highly permeable and enhanced surface area carbon-cloth electrode for vanadium redox flow batteries. Journal of Power Sources, 2016, 329, 247-254. | 7.8 | 111 |
| 22 | Performance enhancement of iron-chromium redox flow batteries by employing interdigitated flow fields. Journal of Power Sources, 2016, 327, 258-264. | 7.8 | 93 |
| 23 | The effects of design parameters on the charge-discharge performance of iron-chromium redox flow batteries. Applied Energy, 2016, 182, 204-209. | 10.1 | 83 |
| 24 | Modeling of ion transport through a porous separator in vanadium redox flow batteries. Journal of Power Sources, 2016, 327, 67-76. | 7.8 | 80 |
| 25 | Modeling of lithium-sulfur batteries incorporating the effect of Li2S precipitation. Journal of Power Sources, 2016, 336, 115-125. | 7.8 | 87 |
| 26 | A high-performance flow-field structured iron-chromium redox flow battery. Journal of Power Sources, 2016, 324, 738-744. | 7.8 | 145 |
| 27 | A high-performance dual-scale porous electrode for vanadium redox flow batteries. Journal of Power Sources, 2016, 325, 329-336. | 7.8 | 157 |
| 28 | A comparative study of all-vanadium and iron-chromium redox flow batteries for large-scale energy storage. Journal of Power Sources, 2015, 300, 438-443. | 7.8 | 251 |
| 29 | A vanadium redox flow battery model incorporating the effect of ion concentrations on ion mobility. Applied Energy, 2015, 158, 157-166. | 10.1 | 118 |
| 30 | Sensitivity Analysis for a Planar SOFC: Size Effects of the Porous Gas Diffusion Layer Underneath the Channel Rib. Fuel Cells, 2014, 14, 123-134. | 2.4 | 13 |
| 31 | Numerical study on thermal stresses of a planar solid oxide fuel cell. International Journal of Thermal Sciences, 2014, 77, 1-10. | 4.9 | 41 |