Tao Liu

List of Publications by Year
in descending order

19	1,386	516681 16	794568 19
papers	citations	h-index	g-index

19	19	19	1443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Active Hollow Porous Carbon Spheres@Graphite Felt Composite Electrode for High Power Density Vanadium Flow Batteries. Advanced Functional Materials, 2022, 32, .	14.9	29
2	Mitigating Capacity Decay by Adding Carbohydrate in the Negative Electrolyte of Vanadium Redox Flow Battery. Energies, 2022, 15, 2454.	3.1	4
3	Highly Active Ag Nanoparticle Electrocatalysts toward V²⁺/V³⁺ Redox Reaction. ACS Applied Energy Materials, 2021, 4, 3913-3920.	5.1	13
4	Inspired by â€œquenching-crackingâ€•strategy: Structure-based design of sulfur-doped graphite felts for ultrahigh-rate vanadium redox flow batteries. Energy Storage Materials, 2021, 39, 166-175.	18.0	27
5	Layer-by-layer growth of ZIF-8 on electrospun carbon nanofiber membranes for high-performance supercapacistor electrode. Journal of Energy Chemistry, 2020, 47, 221-224.	12.9	14
6	Cost, performance prediction and optimization of a vanadium flow battery by machine-learning. Energy and Environmental Science, 2020, 13, 4353-4361.	30.8	59
7	Holey three-dimensional wood-based electrode for vanadium flow batteries. Energy Storage Materials, 2020, 27, 327-332.	18.0	49
8	Progress on the electrode materials towards vanadium flow batteries (VFBs) with improved power density. Journal of Energy Chemistry, 2018, 27, 1292-1303.	12.9	69
9	Activated Carbon Fiber Paper Based Electrodes with High Electrocatalytic Activity for Vanadium Flow Batteries with Improved Power Density. ACS Applied Materials & Interfaces, 2017, 9, 4626-4633.	8.0	122
10	Ultrathin free-standing electrospun carbon nanofibers web as the electrode of the vanadium flow batteries. Journal of Energy Chemistry, 2017, 26, 730-737.	12.9	29
11	Design and synthesis of a free-standing carbon nano-fibrous web electrode with ultra large pores for high-performance vanadium flow batteries. RSC Advances, 2017, 7, 45932-45937.	3.6	40
12	The catalytic effect of bismuth for VO 2 + /VO 2+ and V 3+ /V 2+ redox couples in vanadium flow batteries. Journal of Energy Chemistry, 2017, 26, 1-7.	12.9	48
13	Investigation on the effect of catalyst on the electrochemical performance of carbon felt and graphite felt for vanadium flow batteries. Journal of Power Sources, 2015, 286, 73-81.	7.8	92
14	Nitrogen-containing mesoporous carbon cathode for lithium-oxygen batteries: The influence of Nitrogen on oxygen reduction reaction. Electrochimica Acta, 2014, 150, 205-210.	5.2	19
15	Investigation on the performance evaluation method of flow batteries. Journal of Power Sources, 2014, 266, 145-149.	7.8	51
16	Nitrogen enriched mesoporous carbon as a high capacity cathode in lithiumâ€“oxygen batteries. Nanoscale, 2013, 5, 8484.	5.6	50
17	Cell architecture upswing based on catalyst coated membrane (CCM) forÂvanadium flow battery. Journal of Power Sources, 2013, 237, 19-25.	7.8	21
18	Vanadium Flow Battery for Energy Storage: Prospects and Challenges. Journal of Physical Chemistry Letters, 2013, 4, 1281-1294.	4.6	443

#	Article	IF	Citations
19	Carbon paper coated with supported tungsten trioxide as novel electrode for all-vanadium flow battery. Journal of Power Sources, 2012, 218, 455-461.	7.8	207