

Ao Tang

List of Publications by Year in descending order

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32
papers

1,778
citations

430874

18
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic modelling of the effects of ion diffusion and side reactions on the capacity loss for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2011, 196, 10737-10747.	7.8	306
2	Studies on pressure losses and flow rate optimization in vanadium redox flow battery. <i>Journal of Power Sources</i> , 2014, 248, 154-162.	7.8	305
3	Thermal modelling of battery configuration and self-discharge reactions in vanadium redox flow battery. <i>Journal of Power Sources</i> , 2012, 216, 489-501.	7.8	154
4	Thermal modelling and simulation of the all-vanadium redox flow battery. <i>Journal of Power Sources</i> , 2012, 203, 165-176.	7.8	139
5	Investigation of the effect of shunt current on battery efficiency and stack temperature in vanadium redox flow battery. <i>Journal of Power Sources</i> , 2013, 242, 349-356.	7.8	111
6	Investigation of the use of electrolyte viscosity for online state-of-charge monitoring design in vanadium redox flow battery. <i>Applied Energy</i> , 2018, 211, 1050-1059.	10.1	87
7	Perovskite enables high performance vanadium redox flow battery. <i>Chemical Engineering Journal</i> , 2022, 443, 136341.	12.7	85
8	High performance and long cycle life neutral zinc-iron flow batteries enabled by zinc-bromide complexation. <i>Energy Storage Materials</i> , 2022, 44, 433-440.	18.0	64
9	Synergetic Modulation on Solvation Structure and Electrode Interface Enables a Highly Reversible Zinc Anode for Zinc-Iron Flow Batteries. <i>ACS Energy Letters</i> , 2022, 7, 2331-2339.	17.4	58
10	Oxygen-induced electrode activation and modulation essence towards enhanced anode redox chemistry for vanadium flow batteries. <i>Energy Storage Materials</i> , 2021, 34, 301-310.	18.0	47
11	Membrane Permeability Rates of Vanadium Ions and Their Effects on Temperature Variation in Vanadium Redox Batteries. <i>Energies</i> , 2016, 9, 1058.	3.1	45
12	Numerical modelling and in-depth analysis of multi-stack vanadium flow battery module incorporating transport delay. <i>Applied Energy</i> , 2019, 247, 13-23.	10.1	34
13	Electrolyte transfer mechanism and optimization strategy for vanadium flow batteries adopting a Nafion membrane. <i>Journal of Power Sources</i> , 2020, 449, 227503.	7.8	30
14	High-capacity zinc-iodine flow batteries enabled by a polymer-polyiodide complex cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16093-16098.	10.3	30
15	The Mechanism and Modelling of Shunt Current in the Vanadium Redox Flow Battery. <i>ChemistrySelect</i> , 2016, 1, 2249-2256.	1.5	26
16	Tuning the ferrous coordination structure enables a highly reversible Fe anode for long-life all-iron flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26354-26361.	10.3	26
17	Analysis and optimization of module layout for multi-stack vanadium flow battery module. <i>Journal of Power Sources</i> , 2019, 427, 154-164.	7.8	25
18	Tailoring manganese coordination environment for a highly reversible zinc-manganese flow battery. <i>Journal of Power Sources</i> , 2021, 507, 230295.	7.8	25

#	ARTICLE	IF	CITATIONS
19	In-situ measurement of electrode kinetics in porous electrode for vanadium flow batteries using symmetrical cell design. <i>Applied Energy</i> , 2020, 272, 115093.	10.1	20
20	A dopamine-based high redox potential catholyte for aqueous organic redox flow battery. <i>Journal of Power Sources</i> , 2020, 460, 228124.	7.8	19
21	Evaluation of the influence of clamping force in electrochemical performance and reliability of vanadium redox flow battery. <i>Journal of Power Sources</i> , 2019, 431, 170-181.	7.8	16
22	Unlocking the solubility limit of ferrocyanide for high energy density redox flow batteries. <i>Materials Today Energy</i> , 2022, 28, 101061.	4.7	16
23	Batch-to-Batch Iterative Learning Control of a Batch Polymerization Process Based on Online Sequential Extreme Learning Machine. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 11108-11114.	3.7	15
24	Interfacial co-polymerization derived nitrogen-doped carbon enables high-performance carbon felt for vanadium flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17300-17310.	10.3	15
25	Mechanical behavior and Weibull statistics based failure analysis of vanadium flow battery stacks. <i>Journal of Power Sources</i> , 2019, 412, 272-281.	7.8	14
26	Mechanical modelling and simulation analyses of stress distribution and material failure for vanadium redox flow battery. <i>Journal of Energy Storage</i> , 2018, 15, 133-144.	8.1	12
27	Uncovering ionic conductivity impact towards high power vanadium flow battery design and operation. <i>Journal of Power Sources</i> , 2020, 480, 229141.	7.8	12
28	Unraveling the viscosity impact on volumetric transfer in redox flow batteries. <i>Journal of Power Sources</i> , 2020, 456, 228004.	7.8	10
29	Regulating flow field design on carbon felt electrode towards high power density operation of vanadium flow batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 138170.	12.7	9
30	Simulation Analysis of Regional Temperature Effects and Battery Management Schedules for a Residential-Scale Vanadium Redox Flow Battery System. <i>ChemPlusChem</i> , 2015, 80, 368-375.	2.8	8
31	Unveiling electrode compression impact on vanadium flow battery from polarization perspective via a symmetric cell configuration. <i>Journal of Power Sources</i> , 2020, 479, 228816.	7.8	8
32	The role of water transport in the failure of silicone rubber coating for implantable electronic devices. <i>Progress in Organic Coatings</i> , 2021, 159, 106419.	3.9	7