

Binyu Xiong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Adaptive Ensemble-Based Electrochemical Thermal Degradation State Estimation of Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2022, 69, 6984-6996.	5.2	59
2	Control-Oriented Modeling of All-Solid-State Batteries Using Physics-Based Equivalent Circuits. IEEE Transactions on Transportation Electrification, 2022, 8, 2080-2092.	5.3	12
3	Capacity Fading Model of Vanadium Redox Flow Battery Considering Water Molecules Migration. International Journal of Green Energy, 2022, 19, 1613-1622.	2.1	6
4	Design of A Two-Stage Control Strategy of Vanadium Redox Flow Battery Energy Storage Systems for Grid Application. IEEE Transactions on Sustainable Energy, 2022, 13, 2079-2091.	5.9	13
5	Constrained Ensemble Kalman Filter for Distributed Electrochemical State Estimation of Lithium-Ion Batteries. IEEE Transactions on Industrial Informatics, 2021, 17, 240-250.	7.2	76
6	Faulted Feeder Identification Based on Active Adjustment of Arc Suppression Coil and Similarity Measure of Zero-Sequence Currents. IEEE Transactions on Power Delivery, 2021, 36, 3903-3913.	2.9	15
7	Load Current and State-of-Charge Coestimation for Current Sensor-Free Lithium-Ion Battery. IEEE Transactions on Power Electronics, 2021, 36, 10970-10975.	5.4	69
8	State of Charge Estimation of Vanadium Redox Flow Battery Based on Online Equivalent Circuit Model. , 2021, , .		4
9	High-Dimensional State Estimation Using an Adaptive Ensemble Adjustment Kalman Filter for Lithium-Ion Batteries. , 2021, , .		0
10	Design of minimum cost degradation-conscious lithium-ion battery energy storage system to achieve renewable power dispatchability. Applied Energy, 2020, 260, 114282.	5.1	64
11	Combined Primary Frequency and Virtual Inertia Response Control Scheme of a Variable-Speed Dish-Stirling System. IEEE Access, 2020, 8, 151719-151730.	2.6	1
12	Optimal Placement of IoT-Based Fault Indicator to Shorten Outage Time in Integrated Cyber-Physical Medium-Voltage Distribution Network. Energies, 2020, 13, 4928.	1.6	3
13	State of Power and State of Charge Estimation of Vanadium Redox Flow Battery Based on An Online Equivalent Circuit Model. , 2020, , .		4
14	An Optimal Operational Strategy for Vanadium Redox Flow Battery Based on Particle Swarm Optimization. , 2019, , .		4
15	An Electro-Thermal Coupled Model of Vanadium Redox Flow Battery for Large-scale Energy Storage System. , 2019, , .		2
16	Multi-parameter Optimization Strategy for Vanadium Redox Flow Battery Operation Based on Genetic Algorithm. , 2019, , .		2
17	Model-Based Condition Monitoring of a Vanadium Redox Flow Battery. Energies, 2019, 12, 3005.	1.6	8
18	Recent development of membrane for vanadium redox flow battery applications: A review. Applied Energy, 2019, 238, 202-224.	5.1	295

#	ARTICLE	IF	CITATIONS
19	Particle Swarm Optimization-Based Power and Temperature Control Scheme for Grid-Connected DFIG-Based Dish-Stirling Solar-Thermal System. <i>Energies</i> , 2019, 12, 1300.	1.6	7
20	Design of Degradation-Conscious Optimal Dispatch Strategy for Home Energy Management System With Rooftop PV and Lithium-Ion Batteries. , 2019, , .		5
21	An Enhanced Equivalent Circuit Model of Vanadium Redox Flow Battery Energy Storage Systems Considering Thermal Effects. <i>IEEE Access</i> , 2019, 7, 162297-162308.	2.6	44
22	Application of LoRa and NB-IoT in Ubiquitous Power Internet of Things: A Case Study of Fault Indicator in Electricity Distribution Network. , 2019, , .		6
23	A two-level coordinated voltage control scheme of electric vehicle chargers in low-voltage distribution networks. <i>Electric Power Systems Research</i> , 2019, 168, 218-227.	2.1	29
24	Development of an Integrated Power Distribution System Laboratory Platform Using Modular Miniature Physical Elements: A Case Study of Fault Location. <i>Energies</i> , 2019, 12, 3780.	1.6	9
25	State of Charge Estimation of Vanadium Redox Flow Battery Based on Sliding Mode Observer and Dynamic Model Including Capacity Fading Factor. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 1658-1667.	5.9	95
26	Online State of Charge and Capacity Dual Estimation with a Multi-timescale Estimator for Lithium-ion Battery. <i>Energy Procedia</i> , 2017, 105, 2953-2958.	1.8	6
27	Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant. <i>Journal of Engineering</i> , 2017, 2017, 1511-1514.	0.6	6
28	State of charge estimation based on sliding mode observer for vanadium redox flow battery. , 2017, , .		12
29	A comprehensive study of space vector pulse-width modulation technique for three-phase Z-source inverters. <i>International Journal of Circuit Theory and Applications</i> , 2016, 44, 364-381.	1.3	13
30	Enhanced online model identification and state of charge estimation for lithium-ion battery with a FBCRLS based observer. <i>Applied Energy</i> , 2016, 181, 332-341.	5.1	151
31	Partial-Load Analysis of a Temperature-Controlled Solid-Oxide Fuel Cell-Gas Turbine (SOFC-GT) Hybrid Power Plant. <i>Energy Technology</i> , 2015, 3, 601-617.	1.8	3
32	A comprehensive equivalent circuit model of all-vanadium redox flow battery for power system analysis. <i>Journal of Power Sources</i> , 2015, 290, 14-24.	4.0	112
33	Dynamic thermal-hydraulic modeling and stack flow pattern analysis for all-vanadium redox flow battery. <i>Journal of Power Sources</i> , 2014, 260, 89-99.	4.0	63
34	Prediction of solar radiation with genetic approach combining multi-model framework. <i>Renewable Energy</i> , 2014, 66, 132-139.	4.3	49
35	Extended Kalman filter method for state of charge estimation of vanadium redox flow battery using thermal-dependent electrical model. <i>Journal of Power Sources</i> , 2014, 262, 50-61.	4.0	100
36	Dynamic electro-thermal modeling of all-vanadium redox flow battery with forced cooling strategies. <i>Applied Energy</i> , 2014, 135, 1-10.	5.1	69

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37	Thermal hydraulic behavior and efficiency analysis of an all-vanadium redox flow battery. Journal of Power Sources, 2013, 242, 314-324.	4.0	92
38	Finite element-based analysis of composite serpentine flow channel 3D modeling of vanadium redox flow battery. International Journal of Green Energy, 0, , 1-8.	2.1	2