

Binyu Xiong

List of Publications by Year in descending order

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38
papers

1,510
citations

567144

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501076

28
g-index

38
all docs

38
docs citations

38
times ranked

1434
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development of membrane for vanadium redox flow battery applications: A review. Applied Energy, 2019, 238, 202-224.	5.1	295
2	Enhanced online model identification and state of charge estimation for lithium-ion battery with a FBCRLS based observer. Applied Energy, 2016, 181, 332-341.	5.1	151
3	A comprehensive equivalent circuit model of all-vanadium redox flow battery for power system analysis. Journal of Power Sources, 2015, 290, 14-24.	4.0	112
4	Extended Kalman filter method for state of charge estimation of Vanadium redox flow battery using thermal-dependent electrical model. Journal of Power Sources, 2014, 262, 50-61.	4.0	100
5	State of Charge Estimation of Vanadium Redox Flow Battery Based on Sliding Mode Observer and Dynamic Model Including Capacity Fading Factor. IEEE Transactions on Sustainable Energy, 2017, 8, 1658-1667.	5.9	95
6	Thermal hydraulic behavior and efficiency analysis of an all-vanadium redox flow battery. Journal of Power Sources, 2013, 242, 314-324.	4.0	92
7	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
8	Dynamic electro-thermal modeling of all-vanadium redox flow battery with forced cooling strategies. Applied Energy, 2014, 135, 1-10.	5.1	69
9	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
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	Dynamic thermal-hydraulic modeling and stack flow pattern analysis for all-vanadium redox flow battery. Journal of Power Sources, 2014, 260, 89-99.	4.0	63
12	Adaptive Ensemble-Based Electrochemical Thermal Degradation State Estimation of Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2022, 69, 6984-6996.	5.2	59
13	Prediction of solar radiation with genetic approach combining multi-model framework. Renewable Energy, 2014, 66, 132-139.	4.3	49
14	An Enhanced Equivalent Circuit Model of Vanadium Redox Flow Battery Energy Storage Systems Considering Thermal Effects. IEEE Access, 2019, 7, 162297-162308.	2.6	44
15	A two-level coordinated voltage control scheme of electric vehicle chargers in low-voltage distribution networks. Electric Power Systems Research, 2019, 168, 218-227.	2.1	29
16	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
17	A comprehensive study of space vector pulse-width modulation technique for three-phase Z-source inverters. International Journal of Circuit Theory and Applications, 2016, 44, 364-381.	1.3	13
18	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

#	ARTICLE	IF	CITATIONS
19	State of charge estimation based on sliding mode observer for vanadium redox flow battery. , 2017, , .		12
20	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
21	Development of an Integrated Power Distribution System Laboratory Platform Using Modular Miniature Physical Elements: A Case Study of Fault Location. Energies, 2019, 12, 3780.	1.6	9
22	Model-Based Condition Monitoring of a Vanadium Redox Flow Battery. Energies, 2019, 12, 3005.	1.6	8
23	Particle Swarm Optimization-Based Power and Temperature Control Scheme for Grid-Connected DFIG-Based Dish-Stirling Solar-Thermal System. Energies, 2019, 12, 1300.	1.6	7
24	Online State of Charge and Capacity Dual Estimation with a Multi-timescale Estimator for Lithium-ion Battery. Energy Procedia, 2017, 105, 2953-2958.	1.8	6
25	Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant. Journal of Engineering, 2017, 2017, 1511-1514.	0.6	6
26	Application of LoRa and NB-IoT in Ubiquitous Power Internet of Things: A Case Study of Fault Indicator in Electricity Distribution Network. , 2019, , .		6
27	Capacity Fading Model of Vanadium Redox Flow Battery Considering Water Molecules Migration. International Journal of Green Energy, 2022, 19, 1613-1622.	2.1	6
28	Design of Degradation-Conscious Optimal Dispatch Strategy for Home Energy Management System With Rooftop PV and Lithium-Ion Batteries. , 2019, , .		5
29	An Optimal Operational Strategy for Vanadium Redox Flow Battery Based on Particle Swarm Optimization. , 2019, , .		4
30	State of Power and State of Charge Estimation of Vanadium Redox Flow Battery Based on An Online Equivalent Circuit Model. , 2020, , .		4
31	State of Charge Estimation of Vanadium Redox Flow Battery Based on Online Equivalent Circuit Model. , 2021, , .		4
32	Partialâ€œLoad Analysis of a Temperatureâ€œControlled Solidâ€œOxide Fuel Cellâ€œGas Turbine (SOFCâ€œGT) Hybrid Power Plant. Energy Technology, 2015, 3, 601-617.	1.8	3
33	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
34	An Electro-Thermal Coupled Model of Vanadium Redox Flow Battery for Large-scale Energy Storage System. , 2019, , .		2
35	Multi-parameter Optimization Strategy for Vanadium Redox Flow Battery Operation Based on Genetic Algorithm. , 2019, , .		2
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	High-Dimensional State Estimation Using an Adaptive Ensemble Adjustment Kalman Filter for Lithium-Ion Batteries. , 2021, , .		0