Pui Ki Leung

List of Publications by Year
in descending order

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26	2,195	430442	610482
papers	citations	18 h-index	24 g-index

26	26	26	1990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in redox flow batteries, remaining challenges and their applications in energy storage. RSC Advances, 2012, 2, 10125.	1.7	778
2	Numerical investigations of flow field designs for vanadium redox flow batteries. Applied Energy, 2013, 105, 47-56.	5.1	264
3	Characterization of a zincâ€“cerium flow battery. Journal of Power Sources, 2011, 196, 5174-5185.	4.0	201
4	Zinc deposition and dissolution in methanesulfonic acid onto a carbon composite electrode as the negative electrode reactions in a hybrid redox flow battery. Electrochimica Acta, 2011, 56, 6536-6546.	2.6	125
5	Preparation of silica nanocomposite anion-exchange membranes with low vanadium-ion crossover for vanadium redox flow batteries. Electrochimica Acta, 2013, 105, 584-592.	2.6	113
6	An undivided zincâ€“cerium redox flow battery operating at room temperature (295 K). Electrochemistry Communications, 2011, 13, 770-773.	2.3	95
7	Performance characterization of a vanadium redox flow battery at different operating parameters under a standardized test-bed system. Applied Energy, 2015, 137, 402-412.	5.1	92
8	Ce(III)/Ce(IV) in methanesulfonic acid as the positive half cell of a redox flow battery. Electrochimica Acta, 2011, 56, 2145-2153.	2.6	82
9	A mixed acid based vanadiumâ€“cerium redox flow battery with a zero-gap serpentine architecture. Journal of Power Sources, 2015, 274, 651-658.	4.0	71
10	Real-time displacement and strain mappings of lithium-ion batteries using three-dimensional digital image correlation. Journal of Power Sources, 2014, 271, 82-86.	4.0	60
11	Recent Advances in Electrochemical Water Oxidation to Produce Hydrogen Peroxide: A Mechanistic Perspective. ACS Sustainable Chemistry and Engineering, 2021, 9, 76-91.	3.2	59
12	The influence of operational parameters on the performance of an undivided zincâ€“cerium flow battery. Electrochimica Acta, 2012, 80, 7-14.	2.6	41
13	A Solidâ€State Battery Cathode with a Polymer Composite Electrolyte and Low Tortuosity Microstructure by Directional Freezing and Polymerization. Advanced Energy Materials, 2021, 11, 2002387.	10.2	38
14	Corrosion of the zinc negative electrode of zincâ€“cerium hybrid redox flow batteries in methanesulfonic acid. Journal of Applied Electrochemistry, 2014, 44, 1025-1035.	1.5	37
15	Evaluation of electrode materials for all-copper hybrid flow batteries. Journal of Power Sources, 2016, 310, 1-11.	4.0	36
16	High-potential zincâ€“lead dioxide rechargeable cells. Electrochimica Acta, 2012, 79, 117-125.	2.6	30
17	Hybrid power management for fuel cell/supercapacitor series hybrid electric vehicle. International Journal of Green Energy, 2021, 18, 128-143.	2.1	22
18	Facile segmented graphite felt electrode for iron-vanadium redox flow batteries with deep eutectic solvent (DES) electrolyte. Journal of Power Sources, 2021, 483, 229200.	4.0	22

#	Article	IF	Citations
19	Performance and polarization studies of the magnesiumâ€“antimony liquid metal battery with the use of in-situ reference electrode. RSC Advances, 2015, 5, 83096-83105.	1.7	13
20	Wavelet Transform Based Fault Identification and Reconfiguration for a Reduced Switch Multilevel Inverter Fed Induction Motor Drive. Electronics (Switzerland), 2021, 10, 1023.	1.8	6
21	Modeling and analysis of hybrid multilevel converter for constant DC and fuel cell sources. Energy Storage, 2020, 2, e193.	2.3	4
22	Rationally Designed Ternary Deep Eutectic Solvent Enabling Higher Performance for Non-Aqueous Redox Flow Batteries. Processes, 2022, 10, 649.	1.3	3
23	Study on architecture design of electroactive sites on Vanadium Redox Flow Battery (V-RFB). E3S Web of Conferences, 2019, 80, 02004.	0.2	2
24	Emulating Spatial and Temporal Outputs From Fuel Cell and Battery Models: A Comparison of Deep Learning and Gaussian Process Models. Journal of Electrochemical Energy Conversion and Storage, 2023, 20, .	1.1	1
25	Optimization in Redox Flow Batteries. , 2022, , 545-556.		0
26	Lithium Metal Batteries: A Solidâ€State Battery Cathode with a Polymer Composite Electrolyte and Low Tortuosity Microstructure by Directional Freezing and Polymerization (Adv. Energy Mater. 1/2021). Advanced Energy Materials, 2021, 11, 2170004.	10.2	0