

In-situ battery life prediction and classification can advance lithium-ion battery prognostics and health management. A novel physical features-driven moving-window battery life prognostics method is developed in this paper, which can be used to predict the battery remaining useful life (RUL) and knee-point, and for the first time to classify the battery life in real-time.

The rapid development of portable and wearable electronics has stimulated ever-increasing demand for efficient energy-storage technologies. 1-10 As an emerging class of energy supply devices for wearable electronics, fiber-shaped energy-storage devices have attracted significant scientific and technical interest due to their inherent advantages ...

With Energy Storage rising to the forefront of industry developments, World Energy Storage Day is commemorated on 23rd September every year by various global industry stakeholders, policy makers, think tanks and associations to acknowledge its importance across the globe. ... (Mingyuan) Director of International Affairs CNESA. Vinayak Salunkhe ...

Nine nanofluids of NaNO_3 , KNO_3 , and binary salt with SiO_2 nanoparticles are tested. Increase of 34.08% and 39.24% in specific heat and thermal conductivity is obtained. Increase of $36.1 \pm 176^\circ\text{C}$ in decompo...

Design of an Extended Experiment with Electrical Double Layer Capacitors: Electrochemical Energy Storage Devices in Green Chemistry. Sustainability, 2018, 10(10): 3630. DOI: 10.3390/su10103630 ... [26] Mingyuan Zhu*, Qinqin Wang, Kun Chen, Yang Wang, Chaofeng Huang, Hui Dai, Feng Yu, Lihua Kang, Bin Dai*. Development of a Heterogeneous Non ...

Qingsong Liu, Jinlong Gao, Chuntian Cao, Geping Yin, Zaixing Jiang, Mingyuan Ge, Xianghui Xiao, Wah-Keat Lee, Jiajun Wang, Insights into enhanced sodium ion storage mechanism in Fe_3S_4 : The coupling of surface chemistry, microstructural regulation and 3D electronic transport, Nano Energy, 2019, 62, 384-392.

Mingyuan Jiang, Degang Jiang, Jianhua Wang, Yuesheng Sun, Jingquan Liu ... ($\sim 6240 \text{ S cm}^{-1}$) and energy storage capability ($\sim 364 \text{ F g}^{-1}$) under different tensile strains ranging from 0 to 150%. The as-assembled stretchable supercapacitor device demonstrates high capacitance retention of nearly 100% under stretching rates at 50%, 100% and 150 ...

The Journal of Energy Storage focusses on all aspects of energy storage, in particular systems integration, electric grid integration, modelling and analysis, novel energy storage technologies, sizing and management strategies, business models for operation of storage systems and energy storage developments worldwide.

Dispersing nanomaterials can effectively improve the thermal energy storage performance of molten salts.

However, research on such improvement mechanism is still immature, as the understanding of the performance improvement levels induced by different nanoparticles has not been consistent. Using silica nanoparticles as additives, this work prepares nine molten salt ...

Wearable devices can provide unparalleled real-time information for monitoring human health and human-computer interaction, leading to the paradigm shift of digital transformation. 1 These wearable systems have long been relying on electrochemical batteries for powering. 2 However, current batteries cannot meet the growing demand for future wearable ...

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[3] Luo, Guoqing, et al. "A digital twin for advancing battery fast charging based on a Bayesian optimization-based method." Journal of Energy Storage 93 (2024): 112365. Zhao, M., Zhang, Y. and Wang, H., 2024. Battery degradation stage detection and life prediction without accessing historical operating data. Energy Storage Materials, p.103441.

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power generation from wind and solar resources is a key strategy for decarbonizing electricity. Storage enables electricity systems to remain in... Read more

Li-ion batteries (LIBs) are the most popular energy storage devices, which are widely deployed in portable electronics and, more recently, in electric vehicles. ... Mingyuan Ge, Xiaojing Huang ...

To realize the practical applications of the next-generation lithium-metal batteries (LMBs), it is critical to develop high-areal-capacity lithium (Li) anodes with high reversibility and dendrite-free electrodeposition. Herein, we demonstrate a "dendrite-eating" strategy to enable high-areal-capacity LMBs by introducing silicon (Si) coating onto the polypropylene (PP) separator.

More than thirty thousand tons of molten salts as efficient heat transfer and thermal energy storage materials, have been employed in a single commercial concentrating solar power plant. ... {Yaxuan Xiong and Mingyuan Sun and Yu-ting Wu and Peng Xu and Qian Xu and Chuan Li and Yulong Ding and Chong-fang Ma}, journal={Energy & Fuels}, year ...

The industrial energy storage application of deep underground spaces is a powerful means to optimize China's energy storage structure and ensure the national energy storage strategy needs. However, China started relatively late in the research of safety and emergency guarantee technology for energy storage safety in deep underground spaces.



Mingyuan energy storage

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