

Aims. Batteries (ISSN 2313-0105) is an international, open access journal of battery technology and materials. It aims to provide a central vehicle for the exchange and dissemination of new ideas, technology and material developments, and research results in the field of battery technology between scientists and engineers throughout the world.

These batteries are rechargeable and include lithiumion or zinc-carbon systems placed on conductive polymer current collectors. In some cases, additives enhance conductivity and flexibility. 1 The electrodes of flexible batteries can be coated with - or even printed onto - flexible substrates, including carbon-based materials like graphene, carbon fibres or cloth.

As the world increasingly swaps fossil fuel power for emissions-free electrification, batteries are becoming a vital storage tool to facilitate the energy transition. Lithium-Ion batteries first appeared commercially in the early 1990s and are now the go-to choice to power everything from mobile phones to electric vehicles and drones.

Li-ion batteries are crucial for sustainable energy, powering electric vehicles, and supporting renewable energy storage systems for solar and wind power integration. Keeping these batteries at temperatures between 285 K and 310 K is crucial for optimal performance. This requires efficient battery thermal management systems (BTMS). Many studies, both numerical ...

Batteries, an international, peer-reviewed Open Access journal. Cover Story (view full-size image): LiNi 0.8 Co 0.1 Mn 0.1 O 2 (NMC811) is one of the most promising cathode materials for high energy density lithium-ion batteries.

3. Thermal energy storage. Thermal energy storage is used particularly in buildings and industrial processes. It involves storing excess energy - typically surplus energy from renewable sources, or waste heat - to be used later for heating, cooling or power generation. Liquids - such as water - or solid material - such as sand or rocks ...

Batteries can publish multimedia files in articles or as supplementary materials. Please contact the editorial office for further information. All Figures, Schemes and Tables should be inserted into the main text close to their first citation and must be numbered following their number of appearance (Figure 1, Scheme 1, Figure 2, Scheme 2, Table 1, etc.).

Batteries., Volume 8, Issue 1 (January 2022) - 6 articles. Cover Story (view full-size image): Silicon-based and lithium metal anodes are regarded as the candidates of next-generation electrode materials for Li-ion and metallic lithium batteries. However, the unstable interfacial reactions between the anode and electrolyte

continuously ...

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