

The island lies 1,700 km (1,100 mi) north of the Princess Astrid Coast of Queen Maud Land, Antarctica, 1,870 km (1,160 mi) east of the South Sandwich Islands, 1,845 km (1,146 mi) south of Gough Island, and 2,520 km (1,570 mi) south-southwest of the coast of South Africa. It has an area of 49 km² (19 sq mi), 93 percent of which is covered by a glacier. The centre of the island ...

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Perovskite Solar Cells. In article number 2303666, Qinghong Zhang and co-workers developed an anion stabilization strategy to realize the comprehensive durability from perovskite precursor to final devices in the whole air preparation process. The influence of interionic bonding on the ink properties, film crystallization, and defect sites is further ...

This Special Issue aims to explore the latest advancements, trends, challenges, and applications of energy storage technologies, emphasizing their global impact and importance and providing a comprehensive overview of advanced energy storage technologies and their role in accelerating the transition to sustainable energy systems.

Hydrovoltaic Generators. In article number 2400529, Shaochun Tang and co-workers reported a lotus-inspired interfacial evaporation-driven hydrovoltaic generator for efficient generation of water vapor and electricity ...

OCP Group forms strategic partnership with ENGIE to advance energy transition. The joint development agreement's (JDA) main aim is to co-develop and manage four large-scale industrial projects. October 30, 2024. ... Together, we will drive the development of low-carbon energy solutions while strengthening Morocco's industrial ecosystem.

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This work highlights a new design concept of bottom-up targeted assembly, to unlock robust Ni-MnO₂ F x host for aqueous dual-ion storage. The interlayer reinforcement and interface repair can coordinate to regulate the Gibbs free energy of MnO₂ host, thus shielding the runaway "layer-to-spinel" transition and inhibiting the cathode dissolution. . Wide ...

US-based Advanced Energy (AE) Industries has broken ground on its new factory near Bangkok, Thailand, to manufacture power delivery systems for the semiconductor market.. The ground-breaking event was attended by AE's senior management, as well as representatives from multiple AE clients, key suppliers, and local partners.

The Territory of Heard Island and McDonald Islands is an Australian external territory comprising a volcanic group of mostly barren Antarctic islands, about two-thirds of the way from Madagascar to Antarctica. The group's overall land area is 372 km² (144 sq mi) and it has 101.9 km (63 mi) of coastline. Discovered in the mid-19th century, the islands lie on the ...

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Renewable NH₃ Production. NH₃ is a pivotal chemical commodity that is energy-intensive to produce with a substantial carbon footprint. In article number 2302740, Peter G. Loutzenhiser and co-workers investigated non-catalytic NH₃ production is investigated for a renewable two-step solar thermochemical looping cycle using Co₃Mo₃N/Co₆Mo₆N ...

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Li Metal Batteries. In article number 2402064, Lei Gao, Yaoyu Ren, Li-Zhen Fan, Ce-Wen Nan, and co-workers proposed a generalized interphase design principle for Li dendrite suppression by systematically exploring the formation mechanism of Li dendrites.Guided by the design criteria, it is determined that a tailored LiF-Li₃N interphase with high interfacial ...



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