

The Covid-19 pandemic and Russia's invasion of Ukraine have led to major disruptions to global energy and technology supply chains. Soaring prices for energy and materials, and shortages of critical minerals, semiconductors and other components are posing potential roadblocks for the energy transition.

Energy Technology is an applied energy journal covering technical aspects of energy process engineering, including generation, conversion, storage, & distribution. ... Advanced Materials Technologies and Advanced Energy & Sustainability Research. Associate Editors. Jun Liu: Jun Liu is an Assistant Professor in the Department of Mechanical and ...

In 1991, BNP Nouvelle-Calédonie, a subsidiary of BNP Paribas, established a subsidiary, Banque de Wallis-et-Futuna, in the territory. Two years earlier Banque Indosuez had closed its branch at Mata-Utu, leaving the territory without any bank. Following this, the Bank of Wallis-and-Futuna (BWF) with its head office in Wallis was created in 1991.

Nature-Inspired Solar Energy. Article 2301128 by Alina Karabchevsky and co-workers discusses the utilization of solar energy as a renewable source through various technologies with the focus on texturization, inspired by natural occurrences, as a technique to enhance the transparency of surfaces in the context of solar energy applications.

Xiaoyang Cui: Xiaoyang Cui obtained her B. Eng. and Ph.D. from the School of Materials Science and Engineering, Tsinghua University. She continued as a postdoc researching energy materials at the Department of Chemical Engineering of Tsinghua University. She then worked as a research fellow at the Institute of Electrical Engineering, Chinese Academy of Sciences.

Textile Energy Storage. In article number 2303587, Tianyun Zhang, Fen Ran, and co-workers represent the viewpoint of balancing stone to discuss the relationship of electrochemical and textile performance, compile current findings in fiber, yarn, and fabric-type components/devices area, and propose a systematic design framework of textile-based ...

Stefaan De Wolf, King Abdullah University of Science & Technology (KAUST), Thuwal. Mark Mba Wright, Iowa State University, Ames. Shengming Xu, The Institute of Nuclear and New Energy Technology, Tsinghua University. Yuan Yao, Yale University, New Haven. Biying Yu, Beijing Institute of Technology. Qing Zhao, Peking University, Beijing

Technology can make a significant contribution to reducing greenhouse gas emissions from the energy sector. But it can only do so if efforts to develop and deploy advanced energy technologies are redoubled and if

technological advances are combined with measures that discourage the emitting of carbon by making it more expensive.

Situé à 16 000 km de la métropole, Wallis et Futuna est un territoire insulaire soumis à une pollution organique diffuse et une dépendance énergétique forte aux énergies fossiles ...

List of Energy Engineering and Power Technology Journals in Wallis and Futuna Islands : 2024 - List of Energy Engineering and Power Technology Journals in Wallis and Futuna Islands : 2024-JournalsInsights is leading academic website offering a comprehensive directory of journals

This work highlights a new design concept of bottom-up targeted assembly, to unlock robust Ni-MnO₂ 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 ...

Impressive progress for electrochemical CO₂ to C₂H₄ conversion has been made toward allowing for a potentially green, electrochemistry-based approach to CO₂ remediation. Thus, strategies to significantly increase the efficiency of this technology are essential. This review will discuss the vital factors influencing carbon dioxide reduction ...

The study contains technology road maps for all key energy sectors, including electricity generation, buildings, industry and transport. Energy Technology Perspectives 2008 provides detailed technology and policy insights to help focus the discussion and debate in energy circles.

The Critical Materials Monitor aims to improve understanding of supply chains essential for the energy transition, the transition to more sustainable energy. It offers insights into the critical ...

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Smart Pool Monitoring Systems. In article number 2203849, Jae Yeong Park and co-workers develop a brachistochrone bowl-inspired self-powered autonomous smart pool monitoring system (SPMS) for real-time monitoring of the various physico-electrochemical properties of pool water. The combined effort of the wave

energy harvester and water quality ...

Hydrogen Generation. In article number 2401547, Mohamed Nawfal Ghazzal and co-workers highlight the role of oxygen defects and the quantum size effect on the photophysical properties and light harvesting ability ...

CO₂ Reduction. UiO-67-bpy metal-organic frameworks act as platforms to combine plasmonic nanoparticles and metallic centers in a hybrid structure that efficiently transforms CO₂ into methanol under visible light. The high catalytic performance is ascribed to the generation of hot carriers by intrabands transitions of gold nanoparticles together with the ...

In order to reduce the dependency on imported fuels for electricity, Wallis and Futuna are investing in renewable energy solutions. Solar energy has been identified as a particularly viable option, and efforts are being made to install solar panels and encourage the use of solar water heaters in homes and businesses.

Argonne's Advanced Energy Technologies directorate seeks to enable a future energy system that is sustainable, secure and equitable. Our research teams are rising to the challenge of addressing difficult-to-decarbonize sectors of our economy. We partner with industry, academia and government, to execute impactful energy research and development and harness the ...

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Preaching CO tolerance: A series of ordered Fe- and N-doped carbon (Fe-N-C) catalysts are fabricated in this work for alkaline anion-exchange membrane fuel cells (AEMFCs) by using ordered SiO₂ nanospheres as a scaffold template. Compared to previous work, the SiO₂ nanosphere templates used in this work are more well-ordered and size ...

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.

Magnetocaloric Materials. In the article number 2400369, Ekkes Brück, Yang Ren, and co-workers introduce the magnetocaloric effect (MCE) and its applications, and summarize the representative materials, as well as important progress in recent years. Specifically, the importance of multimodal studies on key understandings of the MCE by ...

Directly converting CO₂ into multi-carbon C₃ products still meets the challenges of low selectivity and

conversion efficiency for electrocatalysts. Based on first-principle machine learning techniques, this work supplies the direct predictions of C-C-C coupling processes and reaction trends to different C₃ products. This work proposes the potential reaction ...

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The global energy system is moving closer to a historic transformation. This year's edition of the International Energy Agency (IEA)'s comprehensive publication on energy technology focuses on the opportunities and challenges of scaling and accelerating the ...

This review article introduces newly developed materials, high electrochemical performances in full-cell test, and new technology for advanced lithium-ion batteries, and also provides future perspectives for ...

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