

Why are carbon materials important for energy conversion & storage?

Therefore, carbon materials with attractive features, such as tunable pore architectures, good electrical conductivity, outstanding physicochemical stability, abundant resources, and low cost are highly desirable for energy conversion and storage.

What is the focus of the journal 'Energy Storage Materials'?

'Energy Storage Materials' is an international multidisciplinary journal for communicating scientific and technological advances in the field of materials and their devices for advanced energy storage and relevant energy conversion.

How do I submit a carbon energy manuscript?

Enter your email to receive alerts when new articles and issues are published. As of April 2, 2024, all new Carbon Energy manuscripts are submitted through the Research Exchange platform. For submissions started prior to April 2, 2024, please visit Manuscript Central to manage or complete your submission.

What is aims & scope carbon energy?

2. AIMS AND SCOPE Carbon Energy aims to publish on a wide range of topics from different disciplines that share the focus on the advanced carbon materials and their empowered processes, such as energy storage and conversion, photocatalysis, electrocatalysis, photoelectrocatalysis, heterocatalysis, etc.

Does carbon energy charge a publication fee?

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The properties of carbon nanostructures make them very suitable for sophisticated energy storage and conversion technologies, such as batteries, supercapacitors, fuel cells, and ...

Latent heat energy storage materials based on the phase change materials (PCMs) provide a promising approach for efficient thermal energy management and utilization, because they can store and release thermal energy reversibly [1, 2].Owing to large thermal energy density and small temperature variation of PCMs, the research interest of these materials in academic ...

Aims. Energy Materials and Devices is an interdisciplinary peer-reviewed, open-access journal sponsored by Tsinghua University and published by Tsinghua University Press, which provides a platform for communicating investigations and research advances in the cutting-edge field of energy materials and devices. It focuses on the innovation researches of the whole chain of ...

This special issue aims to collect scientific advances on the sustainable synthesis of carbon materials with tailored properties for their use in energy storage and conversion technologies, ...

This journal Sustainable Chemistry for Energy Materials is organising a special issue entitled "Carbon materials for electrochemical energy storage and conversion". Submission deadline: ...

Carbon Future is an open access, peer-reviewed and interdisciplinary journal that reports carbon-related materials and processes, including catalysis, energy conversion and storage, as well as low carbon emission process and engineering.. Carbon Future publishes Research Articles, Reviews, Highlights, Perspectives, and News and Views from all aspects concerned with carbon.

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The journal Carbon is an international multidisciplinary forum for communicating scientific advances in the field of carbon-based materials, including low-dimensional carbon-based nanostructures. The journal reports new, relevant and significant findings related to the formation, structure, properties, behaviors, and technological applications of carbons, which are a broad ...

Suppressing nonradiative recombination and releasing residual strain are prerequisites to improving the efficiency and stability of perovskite solar cells (PSCs). Here, long-chain polyacrylic acid (PAA) is used to reinforce SnO₂ film and passivate SnO₂ defects, forming a structure similar to "reinforced concrete" with high tensile strength and fewer microcracks.

Along with the great potential of the integrated water electrolyzer powered by a zinc-air battery for practical applications, therefore, the mechanistic understanding and active site identification provide valuable insights into the rational design of advanced

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This Special Issue aims to publish the subjects; preparation process, analysis, physicochemical properties of carbon-based materials and their applications in energy storage fields. However, the topic will be not ...

Dr. Ibrahim Dincer, Editor-in-Chief of Energy Storage, is a full professor of Mechanical Engineering at University of Ontario and adjunct professor at Faculty of Mechanical Engineering of Yildiz Technical University. Renowned for his pioneering works in the area of sustainable energy technologies he has authored/co-authored numerous books and book chapters, and many ...

Batteries and energy storage is the fast growing area in energy research, a trajectory that is expected to

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In recent years, focusing on the key scientific issues in the field of carbon materials and electrochemical energy storage device, researchers have developed a series of ...

The journal Carbon is an international multidisciplinary forum for communicating scientific advances in the field of carbon-based materials, including low-dimensional carbon-based nanostructures. The journal reports new, relevant and significant findings related to ...

Keywords: carbon neutrality, renewable fuel production, electrochemical energy storage, carbon materials, solid waste utilization. Submission guidelines. Please submit your paper to Manuscript Central as the "Carbon Neutrality of Energy and Steel". Submissions shall adhere to the journal Author Guidelines. Learn more about our guest editors!

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