

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?

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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.

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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.

Special Issues. Following special issues within this section are currently open for submissions: Progress in Carbon-Based Materials (Deadline: 20 April 2025); Carbon Nanomaterials for Multifunctional Applications

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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 ...

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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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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 ...

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