Mao shengjie honeycomb energy storage

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In this work, a facile and effective route is introduced to optimize the performance of biomass-based porous carbon materials by partially degrading the component (e.g., lignin, hemicellulose, and cellulose) of the raw materials with the following purposes: (i) collapse the organism to increase the porosity of the material and (ii) inhibit the generation of nonporous carbon sheets ...

Corrigendum to "Moderately concentrated electrolyte improves solid-electrolyte interphase and sodium storage performance of hard carbon" Energy Storage Mater. 16 (2019) 146-154 Jagabandhu Patra, Hao-Tzu Huang, Weijiang Xue, Chao Wang, ...

Zinc-air batteries deliver great potential as emerging energy storage systems but suffer from sluggish kinetics of the cathode oxygen redox reactions that render unsatisfactory cycling lifespan. The exploration on bifunctional electrocatalysts for oxygen reduction and evolution constitutes a key solution, where rational design strategies to ...

C Fei, S Mao, J Yan, R Alert, HA Stone, BL Bassler, NS Wingreen, ... Proceedings of the National Academy of Sciences of the United States 1919607117, 2020. 110: ... Mechanical instability and interfacial energy drive biofilm morphogenesis. J Yan, C Fei, S Mao, A Moreau, NS Wingreen, A Kosmrlj, ... eLife 8, e43920, 2019. 92:

Tolerance in bending into a certain curvature is the major mechanical deformation characteristic of flexible energy storage devices. Thus far, several bending characterization parameters and various mechanical methods have been proposed to evaluate the quality and failure modes of the said devices by investigating their bending deformation status and received strain.

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