

Title: Alcohol-based fuel cells and energy storage

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Passive small direct alcohol fuel cells (PS-DAFCs) are compact, standalone devices capable of electrochemically converting the chemical energy in the fuel/alcohol into ...

A "carbon sequestration + power generation" direct alcohol fuel cell is developed to achieve zero carbon emissions, utilizing CO<sub>2</sub>-derived alcohol fuel to simultaneously co ...

In the last 20 years, direct alcohol fuel cells (DAFCs) have been the subject of tremendous research efforts for the potential application as on-demand power sources.

Ethanol fuel cells, in which alcohol can be poured directly in as fuel, offer cleaner emissions than fossil fuels and no charging times compared to electric vehicle batteries.

University of Central Florida researchers have achieved new record-setting power density for ethanol fuel cells, helping advance the technology as a competitor to fossil fuels ...

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Abstract: In the last 20 years, direct alcohol fuel cells (DAFCs) have been the subject of tremendous research efforts for the potential application as on-demand power sources.

Current developments in composites-based electrocatalysts and polymer-based support materials have been given significant consideration in direct alcohol fuel cells. The ...

The research at the TU Berlin currently focuses on developing novel catalyst materials that could multiply the energy density of alcohol fuel cells. "This energy storage ...

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