

Aug 9, 2022 · Illinois Tech spinoff Influit Energy says it's coming out of stealth mode to commercialize a rechargeable electrofuel - a non-flammable, ...

Aug 27, 2021 · In this paper, a kind of on-board liquid hydrogen (LH₂) cold energy utilization system for a heavy-duty fuel cell hybrid truck is ...

Jan 8, 2021 · Direct liquid fuel cells (DLFCs) are proposed to address the problems of high cost and complex storage and transportation of ...

Soloveichik thinks liquid fuels could be the answer to that problem. With a carbon neutral liquid fuel, such as ethanol, the fuel efficiency and energy density would be roughly the same as ...

ERLs can be used to store both hydrogen and electrical energy using different cell configurations [1], which includes rechargeable liquid fuel cell (RLFC) systems for long-duration energy ...

May 1, 2022 · Dewars are used to store liquid oxygen (LOX) in a fuel cell-driven Air Independent Propulsion (AIP) system for subsea vehicles. The dewar should have ...

Dec 21, 2022 · In this paper, three hydrogen storage options are compared: liquid hydrogen, subcooled liquid hydrogen and cryo-compressed hydrogen. Different para- and orthohydrogen ...

Jul 21, 2020 · Energizing Fuel Cells with an Electrically Rechargeable Liquid Fuel Shi et al. demonstrate an e-fuel cell capable of converting an electrically rechargeable liquid fuel into ...

Jul 2, 2020 · Direct liquid fuel cells with high energy density and facile fuel storage have received increasing attention. Owing to the poor reactivity of conveni...

Oct 10, 2024 · Abstract A new energy storage system that utilizes electrically rechargeable liquid fuels (e-fuels) obtainable from diverse electroactive materials has been recently proposed. The ...

Abstract All vanadium flow batteries (VFBs) are considered one of the most promising large-scale energy storage technology, but restricts by the high manufacturing cost of V 3.5+ electrolytes ...

Jun 27, 2024 · Direct liquid fuel cells (DLFCs) are under active investigation and development for efficient electricity generation. However, most ...

Jan 1, 2022 · Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolyzers, and supercapacitors

Jan 12, 2023 · About Storage Innovations 2030 This technology strategy assessment on flow batteries, released as part of the Long-Duration Storage Shot, contains the findings from the ...

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