

SAFCell has secured exclusive rights to patents from Caltech and Northwestern related to hydrogen generation using solid acid electrolyte membranes and related technologies. With these rights, and SAFCell's manufacturing know-how, SAFCell plans to develop large scale systems for the production of ul

The system, SAFCell's first commercial product, can operate unattended for months at a time in demanding climates. With interest in hydrogen returning, but the delivery infrastructure still years away, SAFCell is exploiting its unique technology in a mode that uses easily transported liquid fuels, such as ammonia, to generate hydrogen on ...

An overview of these five fuel cell types is given in Table 1, as compared to SAFCell's solid acid fuel cell. Table 1. Common types of fuel cells, their temperature of operation, and electrolyte used. Fuel Cell Type: Temperature: Electrolyte: SAFC - Solid ...

SAFCell's technology is based on a new class of electrolytes called solid acids. Fuel Cell Type Temperature; PEMFC - Polymer Electrolyte Membrane: 20-120 °C; AFC - Alkaline: 90-120 °C; PAFC - Phosphoric Acid: 150-200 °C; SAFC - Solid Acid: 220-280 °C; MCFC - ...

SAFCell Inc. is pioneering the commercialization of solid acid fuel cell technology for backup power applications requiring tens of watts to tens of kilowatts. The problem For critical applications requiring 100% uptime, diesel and battery-powered generators have most commonly been used to provide backup power.

Western Sahara [a] is a disputed territory in North-western Africa has a surface area of 272,000 square kilometres (105,000 sq mi). [3] Approximately 30% of the territory (82,500 km² (31,900 sq mi)) is controlled by the Sahrawi Arab Democratic Republic (SADR); the remaining 70% is occupied [4] [5] and administered by neighboring Morocco. [6] It is the most sparsely ...

In a July letter celebrating the 25th anniversary of Moroccan King Mohammed VI's coronation, French President Emmanuel Macron announced a change in France's policy regarding the long-running Western Sahara dispute, declaring that "the present and future of Western Sahara lie within the framework of Moroccan sovereignty." That followed similar ...

"SAFCell's technology permits on-site generation of electricity or compressed hydrogen from all leading renewable liquid hydrogen carriers (LHCs) in one efficient and low-cost step--unlocking green hydrogen's potential to replace hydrocarbons in energy sectors worldwide.

SAFCell president and CEO Dr. Calum Chisholm will be a featured speaker at CERAWEEK 2022 in Houston, TX. The event, which takes place from March 7-11, brings together global leaders to advance new ideas and

address the biggest challenges facing the future of energy, the environment, and climate. Now in its 40th year, CERAWEEK is widely ...

SAFCell hydrogen generation solutions enable the on-site conversion of readily-available liquid feedstocks such as ammonia into hydrogen at fueling stations. For large vehicles such as heavy duty trucks, trains and ships, SAFCell hydrogen generators could provide on-board hydrogen generation from liquid fuels, enabling the use of clean fuels ...

SAFCell fuel cell stacks can operate on a number of different fuels. Unlike cold fuel cells, our fuel cell stacks are tolerant of impurities. We can operate on industrial grade fuels such as methanol and propane - we don't require ultra-pure fuel sources. We can also utilize the same fuels as hot fuel cells and combustion-based generators.

SAFCell, teaming with UltraCell, LLC will produce a 50 watt, man-portable propane system for Army field trials by early 2017.. Pasadena, CA - SAFCell and UltraCell have commenced the design and fabrication of a 50 watt, propane-fueled power unit based on the use of SAFCell's proprietary Solid Acid Fuel Cell stacks in UltraCell's world-leading military ...

The case of Western Sahara is clear: two-thirds of the territory has been occupied by the Moroccan army since 1975, and now Morocco's main tool to continue the occupation has become the green transition. The invasion of the former Spanish colonial territories started in November 1975. The Moroccan army used napalm and a devastating ...

SAFCell is an energy technology company established to commercialize and market our innovative solid state power systems and hydrogen generators. SAFCell has already commercialized a new class of remote power generators to help reduce methane emissions in the O& G sector and is now focusing on scaling up its hydrogen generation capabilities for ...

Calum Chisholm speaks with Shelly Kraft from Stock News Now about SAFCell's technology and scale-up plans. Home Hydrogen. Solid acid hydrogen generators How a SAHG works Benefits Fuel Cells. Solid acid fuel cells How a SAFC works Benefits ...

SAFCell solid acid fuel cell technology was featured in a recent paper on advancements in heavy-duty vehicle fuel cell research. The paper, published earlier this month in the scientific journal Joule, highlighted the potential of ...

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