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However, SAFCell's development team has already shown that operating a SAFC over 100°C (where water is in vapor form) is a sufficient condition to prevent dissolution. Presently, SAFCs ...

SAFCell, Inc. (Pasadena, CA) delivered this week a 1.4 kW solid acid fuel cell (SAFC) stack to Nordic Power Systems (NPS, Norway), exceeding the target performance and marking a major technical milestone in its 18-month development contract with NPS.

SAFCell to Generate Power for Caltech Solar Toilet December 10, 2013; SAFCell wins Patrick Soon-Shiong Innovation Award November 21, 2013; SAFCell and UltraCell to Develop Portable Power Unit for Army June 24, 2013; First Fuel Cell Investment for Candian IP Fund in Pasadena, CA Based SAFCell, Inc. August 1, 2012

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 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. In remote or environmentally ...

SAFCell, Inc. (Pasadena, CA) has successfully achieved the second technical milestone on its 18 month development contract with Nordic Power Systems (NPS, Norway) to deliver solid acid fuel cell (SAFC) stacks for incorporation into ...

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 ...

SAFCell develops Proton Cells, fuel flexible power and hydrogen solutions for the hydrogen economy. SAFCell is the only US company developing Solid Acid Electrolyte technology for energy applications. Headquartered in Pasadena, California, SAFCell operates an R& D and manufacturing laboratory that integrates with a remote AI and machine learning

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:



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Temperature: Electrolyte: SAFC - Solid ...

For oil & natural gas companies, finding dependable power sources for monitoring remote operations in extreme conditions was a challenging and unsolved problem. To provide a solution, SAFCell developed and deployed fuel ...

SAFCell is developing SAFC stacks for portable, back-up power, auxiliary power unit (APU) and military applications. Our goal is to become the leading supplier of fuel cell stacks to original ...

SAFCell is a company specializing in solid acid fuel cell and hydrogen stack development for portable, stationary, and mobile applications. Their technology is fuel-flexible, low-cost, and ...

SAFCell, Inc. (Pasadena, CA) is proud to announce its participation in the new American Lightweight Materials Manufacturing Innovation Institute (ALMMII). SAFCell will work with ALMMII partners to develop innovative, lightweight metal manufacturing techniques for SAFCell's stack components, which can be made from traditional materials like ...

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 ...

SAFCell is an energy company established to market and commercialize the innovative solid acid fuel cell (SAFC) technology developed and patented at the California Institute of Technology. ...

SAFCell's solid state fuel cells, with no moving parts, offer a clean, quiet and minimal-maintenance alternative to mechanical generators. SAFCell fuel cell stacks are also modular and flexible, letting you customize the solution according to your power requirements.

SAFCell hydrogen generators produce hydrogen from chemical fuels through a combination of chemical and electrochemical reactions that take place inside the solid acid hydrogen stack. At the core of each stack is a special material called the electrolyte membrane, which allows the separation of hydrogen from other gases.

SAFCell, Inc. was selected for a \$3.7 million Advanced Research Projects Agency - Energy (ARPA-E) award to develop an intermediate temperature fuel cell for low-cost distributed power generation. SAFCell, a Caltech start-up fuel cell company, was one of 13 projects funded under ARPA-E's \$33 million

Fuel cell developer SAFCell, and development partner UltraCell, have demonstrated the world's first stand alone solid acid fuel cell (SAFC) system converting propane into electricity to meet the increasing demand for portable power on the battlefield.



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SAFCCell and UltraCell announce they have signed a worldwide licensing agreement that gives SAFCell broad access to UltraCell's knowledge in developing and manufacturing rugged remote area power systems. Under the agreement UltraCell will license their know-how and expertise in manufacturing commercially available fuel cell systems to ...

The California Institute of Technology (Caltech) will incorporate a fuel cell stack made by SAFCell, Inc. (Pasadena, CA) into its award-winning solar toilet to enhance the lavatory's energy-efficiency. The solar-powered prototype toilet, winner of the Reinventing the Toilet Challenge issued by the Bill and Melinda Gates Foundation in August ...

SAFCCell, Inc., a Caltech start-up fuel cell company based in Pasadena, CA, received the Los Angeles Business Journal's 2013 Patrick Soon-Shiong Innovation Award. SAFCell was one of five companies in the Los Angeles area to be recognized on November 14 with the coveted award for its leadership in technology innovation and for fostering the ...

SAFCCell's versatile technology converts liquid fuels into electricity or ultra-pure, compressed hydrogen more economically and reliably than alkaline, PEM or solid oxide solutions.

SAFCCell develops Proton Cells, fuel flexible power and hydrogen solutions for the hydrogen economy. SAFCell is the only US company developing Solid Acid Electrolyte technology for energy applications. Headquartered in Pasadena, ...

On March 9th SAFCell president and CEO Dr. Calum Chisholm participated in a panel discussion with three other clean energy entrepreneurs to offer their perspectives on the key challenges that must be overcome to develop zero-carbon energy systems and technologies at scale. The consensus was that the

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