

SAFCell hydrogen generation solutions enable the on-site conversion of readily-available liquid feedstocks such as ammonia into hydrogen at fueling stations. Hydrogen is a clean fuel that, when consumed in a fuel cell, produces water as its only byproduct.

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 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 ...

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 ...

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. Solid acid fuel cells offer significant cost and performance advantages compared to other fuel cell technologies currently under development.

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 founder and CEO Dr. Calum Chisholm will speak at his alma mater Caltech's Entrepreneurs Forum on Saturday June 4th. The theme of the event is decarbonizing energy, and Dr. Chisholm will present an overview of how SAFCell's technology integrates with liquid hydrogen carriers to promote the growth of the green hydrogen economy.

SAFCell and Japanese energy company ENEOS Corporation have finalized a joint development agreement (JDA). Under the agreement the two companies will work together to improve the electrochemical efficiency of SAFCell's solid acid fuel cell, with a view toward developing and producing megawatt-scale direct methylcyclohexane (MCH) solid acid fuel cells ...

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 will develop a novel electrochemical system that converts ammonia to hydrogen. The key innovation is the use of a solid acid electrolyte, a type of electrolyte that is stable in the presence of ammonia while under the operating conditions needed for reactions. Solid acid fuel cell stacks operate at intermediate temperatures (around 250°C) and ...

SAFCell Inc. +1 626-795-0029 calum.isholm@safcell-inc Visit us on social media: Twitter. NOTE: This content is not written by or endorsed by "KTLA", its advertisers, or Nexstar Media Inc.

SAFCell 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 ...

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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 Inc. has signed a Cooperative Research and Development Agreement (CRADA) with the Department of the Navy's U.S. Naval Research Laboratory (NRL). CRADA is an agreement between a Federal laboratory and a non-Federal party to perform collaborative research and development in any area that is consistent with the Federal laboratory's mission.

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

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