

Polymer Electrolyte Fuel Cell Durability

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a Costs projected to high volume production (500,000 80-kW net systems per year). b Cost when producing sufficient MEAs for 500,000 systems per year. DOE Hydrogen and Fuel Cells Program Record 15015, "Fuel Cell System Cost—2015."Cost includes all MEA components, including frames and gaskets. c Time until 10% decrease in voltage at 1.0–1.5 A/cm² for a Gore MEA using a 510 catalyst (anode ...

DOE Technical Targets for Polymer Electrolyte Membrane ...

Proton-exchange membrane fuel cells (PEMFC), also known as polymer electrolyte membrane (PEM) fuel cells, are a type of fuel cell being developed mainly for transport applications, as well as for stationary fuel-cell applications and portable fuel-cell applications. Their distinguishing features include lower temperature/pressure ranges (50 to 100 °C) and a special proton-conducting polymer ...

Proton-exchange membrane fuel cell - Wikipedia

Borup, R. et al. Scientific aspects of polymer electrolyte fuel cell durability and degradation. Chem. Rev. 107, 3904–3951 (2007). Google Scholar

Protonated phosphonic acid electrodes for high power heavy ...

The electrolyte in this fuel cell is an aqueous (water-based) solution of potassium hydroxide (KOH), which can be in concentrated (85 wt%) form for cells operated at high temperature (~250 °C) or less concentrated (35–50 wt%) for lower temperature (<120 °C) operation. The electrolyte is retained in a matrix, usually made from asbestos.

Alkaline Fuel Cell - an overview | ScienceDirect Topics

The Hydrogen and Fuel Cell Technologies Office (HFTO) focuses on research, development, and demonstration of hydrogen and fuel cell technologies across multiple sectors enabling innovation, a strong domestic economy, and a clean, equitable energy future.

Hydrogen and Fuel Cell Technologies Office | Department of ...

Fuel cells do not need to be periodically recharged like batteries, but instead continue to produce electricity as long as a fuel source is provided. A

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fuel cell is composed of an anode, cathode, and an electrolyte membrane. A typical fuel cell works by passing hydrogen through the anode of a fuel cell and oxygen through the cathode.

Fuel Cell Basics — Fuel Cell & Hydrogen Energy Association

A fuel cell vehicle (FCV) or fuel cell ... Different types of fuel cells include polymer electrolyte membrane (PEM) Fuel Cells, direct methanol ... fuel cells achieved a 42 to 53% fuel cell electric vehicle efficiency at full power, and a durability of over 75,000 miles with less than 10% voltage degradation, double that achieved ...

Fuel cell vehicle - Wikipedia

2.2 Polymer Electrolyte Fuel Cells. PEMFCs have high power density, rapid startup, and low-temperature operation (~80–120 °C), and so are ideal for use in applications such as transport and battery replacement. The electrolyte used is a proton conducting polymer. This is typically a perfluorinated polymer (see Fluorine-containing Polymers ...

Proton-Exchange Membrane Fuel Cells - an overview ...

Hydrogen, when used in a fuel cell, generates power electrochemically and the only byproduct of the process is water. This means that fuel cells can create power without releasing any harmful emissions or particulates. ... safety and durability requirements. Tailored innovations - concept right to series production. By partnering with us, you ...

Fuel-cells - matthey.com

The MEA was mounted in a single-cell test fixture with a serpentine flow field and a fuel cell clamp (with an active area of 25 cm²). To control the RH of fuel gases, a water vapor saturated at a ...

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