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8 Tao Sun, Bingbing Tian, Jiong Lu, Chenliang Su, Recent advances in Fe (or Co)/N/C electrocatalysts for the oxygen reduction reaction in polymer electrolyte membrane fuel cells, Journal of Materials Chemistry A, 2017, 5, 36, 18933 CrossRef

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Polymer Electrolyte - an overview | ScienceDirect Topics

The concept of using an ion-exchange membrane as an electrolyte separator for polymer electrolyte membrane (PEM) fuel cells was first reported by General Electric in 1955.

Polymer Electrolyte Membrane Technology for Fuel Cells

Abstract: Polymer electrolyte membrane (PEM) fuel cells, which convert the chemical energy stored in hydrogen fuel directly and efficiently to electrical energy with water as the only byproduct, have the potential to

A review of thermal and water management in polymer

Polymer electrolyte membrane (PEM) fuel cell systems (FCSs) are highly efficient, make little noise, emit zero emissions and are considered a viable candidate for vehicular power sources in the future. FCS technologies have been under development for decades.

Interactions between a polymer electrolyte membrane fuel

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Polymer Electrolytes - web.yonsei.ac.kr

Based on the type of electrolyte used, literature concerning ceramic-glass and polymer solid ion conductors, microporous filter type separators and polymer gel based membranes is reviewed ...

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A proton exchange membrane or polymer electrolyte membrane (PEM) is a semipermeable membrane generally made from ionomers and designed to conduct protons while acting as an electronic insulator and reactant barrier, e.g. to oxygen and hydrogen gas.

Proton-exchange membrane - Wikipedia

High cost and poor stability of the oxygen reduction reaction (ORR) electrocatalysts are the major barriers for broad-based application of polymer electrolyte membrane fuel cells.

Boosting Performance of Low Temperature Fuel Cell

new proton-conducting polymer electrolyte membranes based on hydrocarbon polymers. The character- The character- istics of these new materials which determine their potential applications, are discussed in detail.

Proton-conducting polymer electrolyte membranes based on

This volume, Boosting Polymer Electrolyte Membrane Fuel Cells from Computational Modeling, explores the use of multiscale computational modeling tools for the design and optimization of PEM fuel cells. Multiscale modeling is a rapidly emerging simulation approach which can potentially boost the R&D on PEMFCs through the development of an understanding of mechanisms and processes occurring at ...

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