Proton exchange membrane review

According to our (Global Info Research) latest study, the global Solid Polymer Proton Exchange Membrane Fuel Cell market size was valued at US$ 1887 million in 2024 and is forecast to a ...

Proton exchange membrane water electrolysis is a key technology for hydrogen production, particularly when powered by renewable energy. To ensure operational stability under ...

This study systematically investigated the physicochemical properties and proton exchange membrane fuel cell (PEMFC) performance of perfluorosulfonic acid (PFSA) membranes with ...

The development of noniridium electrocatalysts toward acidic oxygen evolution reaction (OER) is essential for designing efficient proton-exchange-membrane water electrolyzers (PEMWEs) for ...

Phosphoric acid (PA)-doped proton exchange membranes (PEMs) face significant challenges owing to the loss of PA, particularly under high humidity conditions. Ion-pair interactions ...

This study presents an innovative interfacial engineering strategy through the integration of perfluorosulfonic acid nanofibers (PFSANF) with hydroxyl-functionalized Tröger''s base ...

Development and experimental of high?power proton exchange membrane fuel cell test system [J].Journal of Jilin University (Engineering and Technology Edition), 2022, 52 (9): ...

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