

polymer electrolyte fuel cell pdf

In the archetypical hydrogen-oxygen proton exchange membrane fuel cell design, a proton-conducting polymer membrane (typically nafion) contains the electrolyte solution that separates the anode and cathode sides. This was called a "solid polymer electrolyte fuel cell" (SPEFC) in the early 1970s, before the proton exchange mechanism was well understood.

Fuel cell - Wikipedia

Molten-carbonate fuel cells (MCFCs) are high-temperature fuel cells that operate at temperatures of 600 °C and above.. Molten carbonate fuel cells (MCFCs) are currently being developed for natural gas, biogas (produced as a result of anaerobic digestion or biomass gasification), and coal-based power plants for electrical utility, industrial, and military applications.

Molten carbonate fuel cell - Wikipedia

3D copper anchored with an artificial solid-electrolyte interface (SEI) layer is proposed for Li-plating. The anchoring construction of 3D copper and SEI layer can lower current density, provide buffer space, reduce lithium/electrolyte contact, and endure Li-deposition-induced volume change, leading to high-performance lithium anode with long lifespan, high rate, high area capacity ...

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