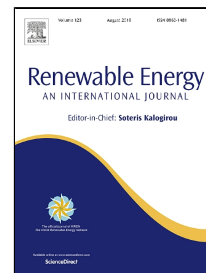


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A novel polysulfone-based ternary nanocomposite membrane consisting of metal-organic framework and silica nanoparticles: as proton exchange membrane for polymer electrolyte fuel cells



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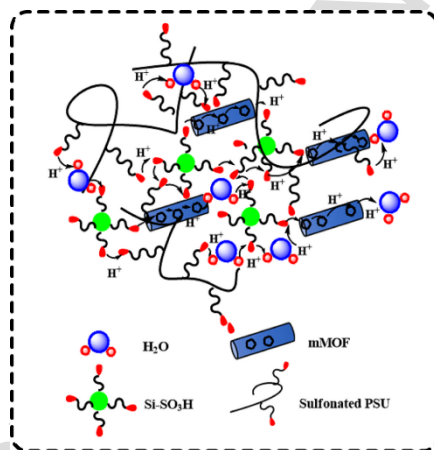
A novel polysulfone-based ternary nanocomposite membrane consisting of metal-organic framework and silica nanoparticles: as proton exchange membrane for polymer electrolyte fuel cells

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A new ternary nanocomposite polymer electrolyte membrane containing sulfonated PSU, MOF and silica nanoparticles was prepared as a polymer electrolyte membrane. Nanocomposite membrane containing 5% silica and MOF nanoparticles showed a power density as high as 40.8 mW cm^{-2} at peak current density of 100.3 mA cm^{-2} .



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