

عنوان مقاله:

Preparation, characterization and properties of proton exchange nanocomposite membranes based on MPVDF/PMMA-co-PAMPS/Silica nanoparticles

محل انتشار:

یازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1393)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

Nanocomposite membranes based on the MPVDF/PMMA-co-PAMPS/silica nanoparticle were prepared via solvent casting method in the presence of various amounts (0-10 wt%) of silica nanoparticles. Nanocomposite Membranes were then characterized by FTIR, impedance spectroscopy and thermogravimetric analysis (TGA). The highest proton conductivity (19 mS/cm) was observed for MPVDF/PMMA-co-PAMPS membrane prepared in the presence of 5 wt% silica nanoparticles

کلمات کلیدی:

Proton exchange membrane, PVDF, Silica, Nanocomposite membrane, Proton conductivity

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