Introduction of Zirconium Phosphate Particles into a Crosslinked SPEEK Membrane by a Exchange Method

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Crosslinked SPEEK membranes containing zirconium phosphate particles were prepared by a radiation crosslinking of SPEEK membranes followed by the introduction of zirconium phosphate by a exchange method. The amounts of zirconium phosphate particles loaded into the crosslinked SPEEK membranes were determined by measuring the weight changes of the membranes after reaction. The morphology of the prepared membranes was investigated by SAXS and SEM-EDX. The SAXS and SEM-EDX results showed that the zirconium phosphate particles were formed and uniformly distributed in the crosslinked SPEEK membrane.