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(54) Title: COMPOSITE POLYELECTROLYTE-CERAMIC MEMBRANES

(57) Abstract: The present disclosure relates to a bilayer polyelectrolyte membrane, comprising a first layer and a second layer, wherein the first layer comprises a perfluorosulfonic acid, the second layer comprises a metal oxide, and wherein the first layer is disposed on the second layer. The present disclosure further relates to a method of making the bilayer polyelectrolyte membrane, as well as membrane electrode assembly and fuel cell comprising the bilayer polyelectrolyte membrane.

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