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Crosslinked Norbornene Copolymer Anion Exchange Membrane for Fuel Cells

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Abstract:

A series of crosslinked anion exchange membranes (AEMs) were prepared through ring-opening metathesis polymerization (ROMP) of tetraalkylammonium-functionalized norbornene derivatives. Dimensional stability and mechanical properties were enhanced by the crosslinker of 2, 2'-(hexane-1,6-diyl) bis(2-methyl-2, 3, 3a, 4, 7, 7a-hexahydro-1H-4, 7-methanoisindol-2-

¹ NOTE: Chao Wang and Biming Mo contributed equally to this work.

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