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Membrane Mediated Organocatalyst Separation Methodology

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ABSTRACT

Membranes were fabricated by Ring Opening Metathesis Polymerization (ROMP) of dicyclopentadiene with Grubbs catalyst. Organocatalysts were separated from organic molecules using these membranes. Acid or base was added to organic catalysts that increased the critical area of the organic catalysts to the size range ($>0.5 \text{ nm}^2$) where membranes could retain them. The catalysts were too small to be retained by themselves, but the salts were in the range where PDPCD membranes could retain them.

Keywords: Membrane, Organocatalyst, critical area, separation.
