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Polycarbonates derived from propylene oxide, CO₂, and 4-vinyl cyclohexene oxides terpolymerization catalyzed by bifunctional $\text{salcyCo}^{\text{III}}\text{NO}_3$ complex and its post-polymerization modification

Hongye Zhang, Binyuan Liu, Huining Ding, Junwu Chen, Zhongyu Duan

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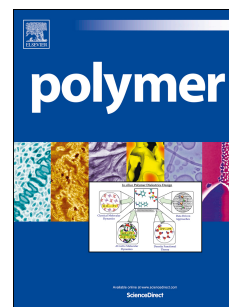
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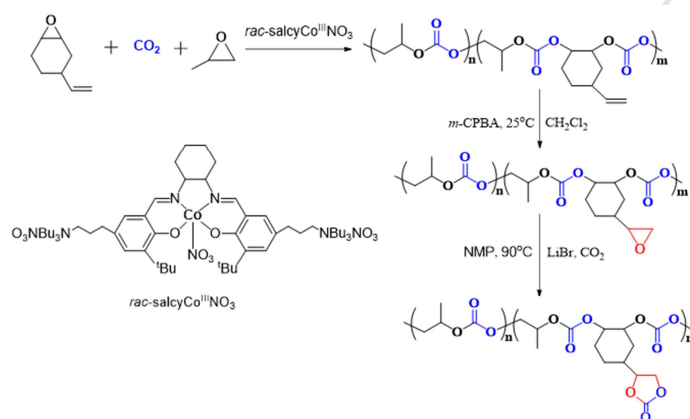


GRAPHICAL ABSTRACT

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Terpolymerizations of CO₂, propylene oxide, and 4-vinyl cyclohexene oxide were successfully achieved under a single quaternary ammonium salt functionalized salenCo^{III}Cl complex. The terpolymer shows an advantage to conveniently incorporate a variety of functional groups by post-polymerization modifications. The *T_g* of fully cyclic carbonate-functionalized poly(cyclohexene carbonate) is up to 196 °C, which is the highest *T_g* of CO₂-based polycarbonate reported

TOC Figure



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