

**Lanthanum oxide as catalyst for synthesis of glycerol carbonate from glycerol and dimethyl carbonate**

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Lanthanum oxide was prepared by various method, precipitation, direct calcinations of lanthanum nitrate and surfactant-assisted synthesis. The catalytic activity of these lanthanum oxides in the transesterification of dimethyl carbonate with glycerol to produce glycerol carbonate was investigated. The prepared catalysts were characterized by X-ray Diffraction, IR spectroscopy and Brunauer-Emmet-Teller (BET) surface area