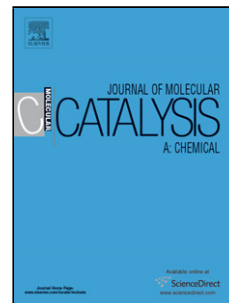


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Title: Highly efficient self-esterification of aliphatic alcohols using supported gold nanoparticles under mild conditions

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Research highlights

- One-step self-esterification of primary alcohols using molecular oxygen as a green oxidant and supported gold nanoparticles as catalyst.
- Long aliphatic esters were prepared under mild conditions.
- A variety of aliphatic esters were obtained in high yields.
- A tentative mechanism for the reaction was proposed.
- Gold nanoparticles catalyst can be efficiently recycled and reused.

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