& Catalysis

## Amino Acid functionalized Periodic Mesoporous Organosilicas as **Bifunctional Catalysts**

UNIVERSITEIT GENT

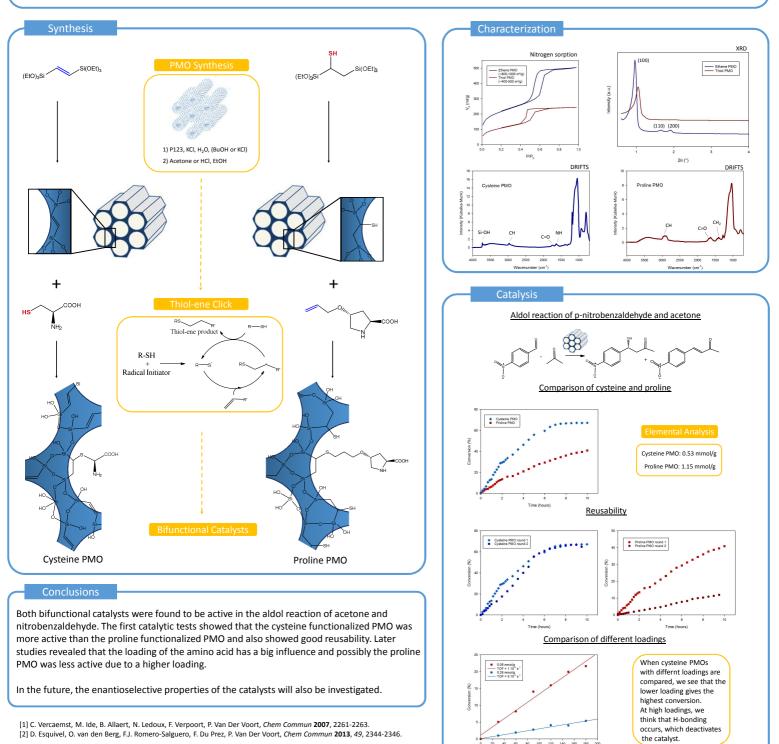
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## Introduction

Sciences

Periodic Mesoporous Organosilicas, commonly known as PMOs, are a class of hybrid mesoporous materials. The materials are formed by the hydrolysis and condensation of an organobissilane precursor of the form (R'O)<sub>3</sub>Si-R-Si(OR')<sub>3</sub> around a structure directing agent. In this study, two PMOs which were developed in COMOC, namely an E-ethene-PMO [1] and a thiol-PMO [2], are functionalized with amino acids via a thiol-ene click reaction. The bifunctional acid-base catalysts obtained this way are tested in an aldol condensation reaction.



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