

Title: Homogeneous and heterogenised new gold C-scorpionate complexes as catalysts for cyclohexane oxidation

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Source: Catalysis Science & Technology **Volume:** 3 **Issue:** 11 **Pages:** 3056-3069

DOI: 10.1039/c3cy00552f **Published:** 2013

Document Type: Article

Language: English

Abstract: Gold(III) complexes of type $[AuCl_2\{\eta^2-RC(R'pz)(3)\}]Cl$ [$R = R' = H$ (1), $R = CH_2OH$, $R' = H$ (2) and $R = H$, $R' = 3,5-Me-2(3)$, $pz = pyrazol-1-yl$] were supported on carbon materials (activated carbon, carbon xerogel and carbon nanotubes) and used for the oxidation of cyclohexane to cyclohexanol and cyclohexanone, with aqueous H_2O_2 , under mild conditions.

KeyWords Plus: Schiff-base complex; Manganese(III) Salen complexes; Ray-Absorption spectroscopy; Wall carbon nanotubes; Peroxidative oxidation; Activated carbon; Hydrogen-Peroxide; Coordination-compounds; Gold(III) complexes; Rhenium complexes

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Funding:

Funding Agency	Grant Number
Fundacao para a Ciencia e a Tecnologia (FCT)	
FEDER	PEst-C/EQB/LA0020/2011 PEst-OE/QUI/UI0100/2013 PTDC/EQU-EQU/122025/2010 PTDC/QUI-QUI/102150/2008 PTDC/QUI-QUI/100682/2008

Publisher: Royal Soc Chemistry

Publisher Address: Thomas Graham House, Science Park, Milton RD, Cambridge CB4 0WF, Cambs, England

ISSN: 2044-4753

Citation: ALMEIDA, M. Peixoto de; MARTINS, L. M. D. R. S.; CARABINEIRO, S. A. C. ; LAUTERBACH, T. ; ROMINGER, F.; HASHMI, A. S. K.; POMBEIRO, A. J. L.; FIGUEIREDO, J. L. - Homogeneous and heterogenised new gold C-scorpionate complexes as catalysts for cyclohexane oxidation. Catalysis Science & Technology. ISSN 2044-4753. Vol. 3, nr. 11 (2013), p. 3056-3069.