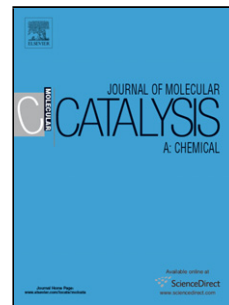


Accepted Manuscript

Title: Catalytic Oxidation of Primary Aromatic Alcohols Using Half Sandwich Ir(III), Rh(III) and Ru(II) Complexes: A Practical and Theoretical study

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PII: S1381-1169(16)30230-8
DOI: <http://dx.doi.org/doi:10.1016/j.molcata.2016.06.017>
Reference: MOLCAA 9923

To appear in: *Journal of Molecular Catalysis A: Chemical*

Received date: 20-4-2015
Revised date: 10-6-2016
Accepted date: 17-6-2016

Please cite this article as: Saravanan Thangavel, Subramaniam Boopathi, N.Mahadevaiah, Ponmalai Kolandaivel, Pramod Pansuriya, Holger B.Friedrich, Catalytic Oxidation of Primary Aromatic Alcohols Using Half Sandwich Ir(III), Rh(III) and Ru(II) Complexes: A Practical and Theoretical study, *Journal of Molecular Catalysis A: Chemical* <http://dx.doi.org/10.1016/j.molcata.2016.06.017>

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Highlights

- Ir(III), Rh(III) and Ru(II) complexes show pseudo octahedral “piano-tool” geometry
- Catalytic activity for benzyl alcohol oxidation demonstrated by all three complexes
- Ir and Ru complexes show best conversion of primary aromatic alcohols to aldehydes
- DFT studies carried out on the complexes
- Proposed reaction mechanism is supported by DFT

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