

Journal Name:	<u>International Research Journal of Pure and Applied Chemistry</u>
Manuscript Number:	2013_IRJPAC_4347
Title of the Manuscript:	Zirconium (IV) Molybdotungstate- Application as Catalyst for the Synthesis of an Ester

RESPONSE TO VARIOUS COMMENTS OF THE EDITORIAL BOARD MEMBER

- 1. I offer an opportunity for revision if the writing has been simply clearer.
This manuscript addresses a topic that will be of interest to readers.
This study attempt to provide answers to important, previously unanswered questions. (Page-1)*

Thank you very much for encouraging comments. The manuscript has been reorganized and elaborated to make it clearer and easily comprehensible.

- 2. The methods serve as a good model for composing a manuscript. (Page-3)*

No comments.

- 3. 3.6 KINETIC STUDIES? Procedure?(Page-5)*

Kinetic study has been added at 3.2 in the revised manuscript and highlighted in yellow. The procedure for the same has been elaborated under 2.4 (highlighted in yellow).

- 4. 2.7 characterization of the product? (Page-5)*

Characterization of the synthesized heteropolyacid salt has been discussed under 2.3 and opening paragraph of 'Results and Discussion', while that of the synthesized ester by FTIR as well as NMR has been given under 3.3. The details of instrumentation have been provided under 2.1.

- 5. "The author should have paid more attention to detail." (Page-5)*

Detailed discussions have been added wherever required. The TGA studies of Zr MoW as well as the kinetic studies of the esterification process have been further elaborated as desired. Characterization of the synthesized ester by NMR studies has been incorporated. The changes have been highlighted in yellow.

- 6. Explain the diagram. (Page-6)
How are losses/the mass increasing?
Why do*

Desired explanations have been added regarding structural rearrangements including loss of weight with temperature in the TGA studies of Zr MoW. The changes have been highlighted in yellow.

7. *Explanation (Page-8)*

Discussed under 3.2 in the revised manuscript.

8. *Explanation (Page-9)*

Discussed under 3.2 in the revised manuscript.

9. *Only both at explanation???? (Page-9)*

The FTIR data as well as the NMR data of the synthesized ester has been given in the section, 'Characterization of the product (3.3)', which clearly indicate the formation of an ester using new catalyst.

10. *The image is not very clear. (Page-10)*

A better image showing FTIR spectra has been given in the revised manuscript.