

Accepted Manuscript

Title: Towards a recyclable MOF catalyst for efficient production of furfural

Authors: Amrita Chatterjee, Xijun Hu, Frank Leung-Yuk Lam

PII: S0920-5861(18)30067-1
DOI: <https://doi.org/10.1016/j.cattod.2018.02.016>
Reference: CATTOD 11241

To appear in: *Catalysis Today*

Received date: 4-10-2017
Revised date: 2-2-2018
Accepted date: 9-2-2018

Please cite this article as: Amrita Chatterjee, Xijun Hu, Frank Leung-Yuk Lam, Towards a recyclable MOF catalyst for efficient production of furfural, *Catalysis Today* <https://doi.org/10.1016/j.cattod.2018.02.016>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Towards a recyclable MOF catalyst for efficient production of furfural

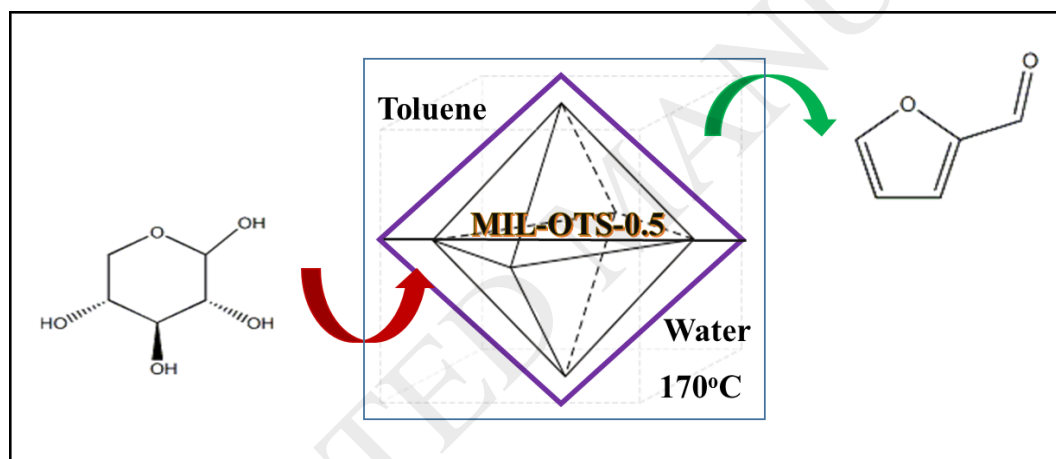
Amrita Chatterjee¹, Xijun Hu¹ and Frank Leung-Yuk Lam^{1*}

¹Department of Chemical and Biological Engineering, The Hong Kong University of Science and Technology, Sai Kung, Hong Kong SAR, China

*Corresponding author. Fax: +852 2358 0054

E-mail address: kefrank@ust.hk (F. Lam)

Graphical abstract



Highlights

- MOF has been studied as a potential catalyst for xylose dehydration reaction.
- MIL-101 (Cr) is coated with OTS to improve hydrothermal stability.
- The coating procedure is conducted at room temperature.
- Coated MOF can be recycled minimum of 8 times, while pristine MOF for 4 times.

Download English Version:

<https://daneshyari.com/en/article/6504104>

Download Persian Version:

<https://daneshyari.com/article/6504104>

[Daneshyari.com](https://daneshyari.com)