## Accepted Manuscript

Title: Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone

Authors: Oleg Kikhtyanin, Yadolah Ganjkhanlou, David Kubička, Roman Bulánek, Jiří Čejka

PII: S0926-860X(17)30446-5

DOI: http://dx.doi.org/10.1016/j.apcata.2017.09.017

Reference: APCATA 16411

To appear in: Applied Catalysis A: General

Received date: 28-6-2017 Revised date: 10-9-2017 Accepted date: 15-9-2017

Please cite this article as: Oleg Kikhtyanin, Yadolah Ganjkhanlou, David Kubička, Roman Bulánek, Jiří Čejka, Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone, Applied Catalysis A, Generalhttp://dx.doi.org/10.1016/j.apcata.2017.09.017

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.

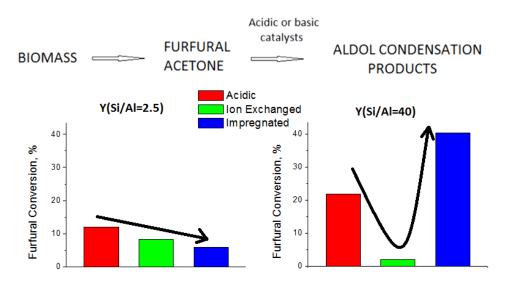


### ACCEPTED MANUSCRIPT

# Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone

Oleg Kikhtyanin\*1,2, Yadolah Ganjkhanlou3, David Kubička2, Roman Bulánek3, Jiří Čejka4

#### **Graphical abstract**



Performance of acidic and potassium-treated Y zeolites in aldol condensation

<sup>&</sup>lt;sup>1</sup>Unipetrol Centre of Research and Education (UNICRE), Chempark Litvínov, 436 70 Záluží-Litvínov, Czech Republic

<sup>&</sup>lt;sup>2</sup>Technopark Kralupy, University of Chemistry and Technology Prague, Žižkova 7, 278 01 Kralupy nad Vltavou, Czech Republic

<sup>&</sup>lt;sup>3</sup>Department of Physical Chemistry, Faculty of Chemical Technology, University of Pardubice, Studentská 573, 532 10 Pardubice, Czech Republic

<sup>&</sup>lt;sup>4</sup>J. Heyrovský Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Dolejškova 2155/3, 182 23 Prague, Czech Republic

<sup>\*</sup>Corresponding author email: oleg.kikhtyanin@vscht.cz

#### Download English Version:

# https://daneshyari.com/en/article/6497182

Download Persian Version:

https://daneshyari.com/article/6497182

<u>Daneshyari.com</u>