

Accepted Manuscript

Title: Preparation of non-permselective sulfated zirconia catalytic membrane for use in a catalytic membrane reactor

Author: Peyman Khajavi Ali Akbar Babaluo

PII: S0263-8762(15)00358-5

DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2015.09.006>

Reference: CHERD 2017

To appear in:

Received date: 18-1-2015

Revised date: 6-9-2015

Accepted date: 14-9-2015

Please cite this article as: Khajavi, P., Babaluo, A.A., Preparation of non-permselective sulfated zirconia catalytic membrane for use in a catalytic membrane reactor, *Chemical Engineering Research and Design* (2015), <http://dx.doi.org/10.1016/j.cherd.2015.09.006>

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.



Highlights:

- Cost-effective sulfated zirconia catalytic membrane was prepared
- Aluminum isopropylate and silica powder were used to facilitate layers preparation
- Coating sol with strong acid media was not usable for fabrication of layers
- The tetragonal to monoclinic phase transformation was appropriately prevented
- The membrane had desirable crystalline phase, porous and crack-free microstructure

Download English Version:

<https://daneshyari.com/en/article/7007191>

Download Persian Version:

<https://daneshyari.com/article/7007191>

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