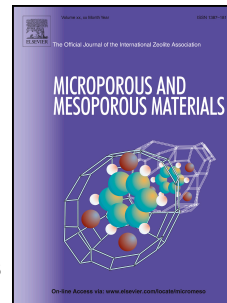


# Accepted Manuscript

Generation of parallelepiped-shaped mesopores and structure transformation in highly stable ferrierite zeolite crystals by framework desilication in NaOH solution

Xiaowei Cheng, Thomas Cacciaguerra, Delphine Minoux, Jean-Pierre Dath, François Fajula, Corine Gérardin



PII: S1387-1811(17)30384-0

DOI: [10.1016/j.micromeso.2017.05.050](https://doi.org/10.1016/j.micromeso.2017.05.050)

Reference: MICMAT 8363

To appear in: *Microporous and Mesoporous Materials*

Received Date: 16 April 2017

Revised Date: 21 May 2017

Accepted Date: 29 May 2017

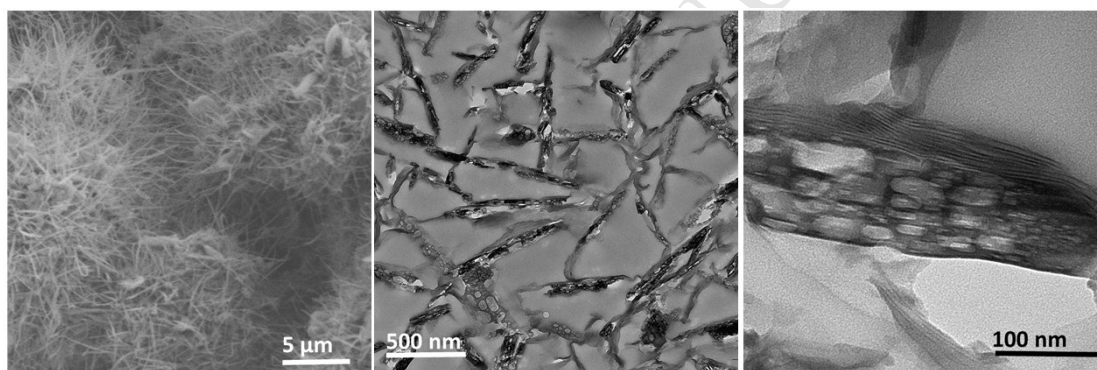
Please cite this article as:

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.

**Generation of parallelepiped-shaped mesopores and structure transformation in highly stable ferrierite zeolite crystals by framework desilication in NaOH solution**

Xiaowei Cheng, Thomas Cacciaguerra, Delphine Minoux, Jean-Pierre Dath, François Fajula, Corine Gérardin

Desilication and recrystallization of the highly stable low-silica NaK-form ferrierite were conducted by one-step hydrothermal treatment in sodium hydroxide solution containing cetyltrimethylammonium bromide, leading to the formation of homogeneously distributed parallelepiped-shaped mesopores, partial delamination of layered crystals and ultimately, formation of GIS and SOD zeolite phases, successively.



Download English Version:

<https://daneshyari.com/en/article/6532384>

Download Persian Version:

<https://daneshyari.com/article/6532384>

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