

# SYNTHESIS OF ZEOLITES (MFI, CHA, STF AND MTW) AND ENCAPSULATION OF METAL CLUSTERS WITHIN MFI BY INTERZEOLITE TRANSFORMATIONS WITHOUT ORGANIC STRUC ...

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## PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,938,157	04/10/2018	2014-144
United States Of America	Issued Patent	9,802,831	10/31/2017	2014-144
European Patent Office	Published Application	3177564	06/14/2017	2014-144

Additional Patents Pending

## BRIEF DESCRIPTION

This is a method of converting lower framework density zeolites into high Si/Al ratio zeolites having a higher framework density value, without the use of organic SA.

## SUGGESTED USES

It can lower the framework density of a zeolite that can be converted into a higher framework density zeolite and then converting into a high Si/Al ration zeolite, that is, at lease a ration of 10.

## ADVANTAGES

This conversion can be conducted in the absence of the OSDA. The conversion is achieved by direct hydrothermal synthesis. It eliminates the costly DDA and waste treatment at the plant, thereby, making the process more cost efficient and less equipment intensive.

## RELATED MATERIALS

## CONTACT

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## INVENTORS

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## OTHER INFORMATION

### KEYWORDS

zeolites

### CATEGORIZED AS

» **Materials & Chemicals**

» Chemicals

### RELATED CASES

2014-144-0