

## عنوان مقاله:

Comprehensive study on synthesis routes, morphology & hydrothermal treatment of zeolite beta

## محل انتشار:

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## خلاصه مقاله:

In the present article, the effect of various parameters on synthesis, crystal size, morphology and hydrothermal stability of zeolite  $\beta$  are discussed. The most important parameter is Si/Al ratio and scrutinized widely. The effect of Si/Al ration in precursor gel on crystal size and crystallinity, effect of hydrothermal treatment on structure and acidity and industrial stability of zeolite  $\beta$  is reviewed. The Presence of organic template molecules and effect of seeding on structure, physical and chemical properties of zeolite  $\beta$  is also mentioned. Results of a new two-stage varying temperature synthesis and supercritical fluid aided crystallization which is published recently to obtain high yield of nanocrystalline zeolite  $\beta$  is also presented.

## کلمات کلیدی:

zeolite beta, zeolite crystal, nucleation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/66232>

