

Hydrothermally synthesized zeolites based on kaolinite: A review

ABSTRACT

Many types of zeolites have been developed based on kaolinite in previous years. This review focuses on the current reports of kaolinite-based zeolites and the important factors in their synthesis. Among the factors discussed in this review are the effect of SiO₂/Al₂O₃ (Si/Al) molar ratio of the gel mixture, metakaolinitization time and temperature, aging condition, alkalinity, and crystallization time and temperature. This review only covers the most recent kaolinite-based zeolite papers published from 2005 to present. A brief discussion on the evolution of zeolites is also included.