**Abstract** 

Zeolites are materials with a large variety of applications in industry. They are able to

catalyze many types of reactions and can be used as molecular sieves or adsorbents. Tailored

design of zeolites is an important goal for chemists as the full control over zeolite porosity

and composition can lead to optimal materials for industrial purposes.

Recently, a new strategy for the zeolite synthesis was proposed and successfully

applied for several systems. This strategy, called ADOR, can lead to synthesis of many new

materials with a defined structure and porosity. The synthesis of new zeolites from lamellar

precursors, which is in the heart of the ADOR process, may become widely used technique in

the near future. In this work we focus on hypothetical products of the ADOR process and

address the relationship between their structure and feasibility of their synthesis.

Keywords: ADOR process, hypothetical zeolites, in silico investigation