## Synthesis of mesoporous alumina by nanocasting with flat disk type SBA -15

\_\_\_\_\_,

(separk@inha.ac.kr\*)

Mesoporous alumina has been synthesized by nanocasting using flat disk type SBA -15 as a hard template and Aluminium isopropoxide as a cheap AI precursor. Flat disk type SBA -15 consists of stacked pore walls and the synthesized mesoporous alumina is expected to have the same texture and morphology to the template. The characteristics of mesoporous alumina was investigated by X-ray diffraction (XRD), transmission electron microscopy (TEM), Fourier transform infrared spectroscopy (FT-IR), Brunauer-Emmett-Teller (BET) and  $N_2$  adsorption-desorption isotherm. The present study demonstrates the useful way of the synthesizing mesoporous alumina with narrow pore size distribution and large surface area.