

Preparation method of ceria particles with nano-size

강희상, 강윤찬*¹, 손종락¹, 정경열¹, 박승빈
한국과학기술원; ¹한국화학연구원
(yckang@pado.krict.re.kr*)

The nano-sized ceria particles via large scale spray pyrolysis were studied. The nano-sized ceria particles were synthesized from firing and milling process with hollow particles prepared by using organic precursor solution. The synthesized ceria particles have been characterized by SEM, TEM, XRD, PSA. The particle size of ceria prepared by using organic precursor solution was smaller than that by using aqueous solution. The particle size was controlled in the range of ~10-500nm by changing type and amount of organic precursor and preparation, calcination and milling conditions.