

CVD preparation of highly-dispersed and nano-sized Pt/MWNT catalyst

김희연*, 류인수, 정남조
한국에너지기술연구원
(kyeongee@hanmail.net*)

Carbon nanotubes (CNT) attract growing interests due to their physical and chemical uniqueness. We used chemical vapor deposition (CVD) method for the preparation of nano-sized Pt catalyst using multi-walled nanotubes (MWNT) as support. Pt/MWNT catalyst prepared by CVD method shows nano-sized Pt particles and large amount of surface catalytic sites. TEM and CO chemisorption results designates that the Pt nanoparticles are highly-dispersed on MWNT surface. CVD method can be widely applied to the synthesis of various catalysts.