

탄소나노튜브 표면에 백금 나노 촉매의 전기화학적 담지 방법

김희연*, 정남조, 이승재, 유인수, 강성규, 송광섭
한국에너지기술연구원
(kyeongee@hanmail.net*)

In order to enhance the performance of fuel cell electrode, carbon nanotubes (CNTs) were directly grown on carbon paper and Pt nano particles are dispersed on CNTs by electrochemical deposition (ECD). ECD has recently been adopted as a catalyst preparation method due to its advantages such as high purity of deposits, simple process, and easy control of loading mass. The catalytic activity of Pt/CNTs was measured by CO chemisorption and by mass activity. SEM and TEM results show that Pt particles are highly dispersed on CNTs surface and range from 2 nm to 6 nm.