

Preparation of highly active 40 wt.% PtRu/C electrocatalysts  
for DMFC via different routes

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**Abstract** : PtRu catalyst is currently the most active anode catalyst for direct methanol fuel cells (DMFC). A series of 40 wt.% PtRu/C electrocatalysts were prepared by an improved aqueous impregnation method with different impregnation time and various reducing processes. The characterization results of XRD and TEM identically reveal that the size and distribution of PtRu nanoparticles on carbon are controllable by modifying impregnation time and different reducing process. Dispersion of PtRu nanoparticles on carbon can be achieved differently by various reducing processes and impregnation time.

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