Low/Non Pt Nanostructures: Fabrication and Their Electrocatalytic Performance for the Fuel Cells

by

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ALL INTERESTED ARE WELCOME
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Abstract

Recently, direct methanol fuel cells (DMFCs) have been paid much attention for their high energy density, high conversion efficiency, low operation temperature and low pollution. However, several crucial problems about the catalysts must be resolved before the commercial application of the DMFC can be realized, such as the self-poison on the Pt catalyst, the low electrochemical active surface area and low utilization efficiency. In this report, I will present our recent research work on this topic. We develop several strategies to fabricate Low Pt or Non Pt nanstructured catalysts and investigate their catalytic performance in DMFC. We hope that our primary work could shed a light on the commercial application of the DMFC.

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