

Long-term durability of Pt/C catalyst for PEMFC electrode caused by carbon pretreatment

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In order to improve the catalytic activity of Pt catalyst for PEMFC electrode, Pt nano particles were deposited by chemical vapor deposition (CVD) technique. For the enhancement of long-term durability of Pt/C catalyst, the carbon support underwent the chemical pretreatment. Due to the decrease in Pt particle size and the improved metal-support interaction between Pt and carbon support, the Pt/C catalyst showed superior electrochemical activity and also long-term durability to commercial catalyst.