



Electrocatalysts for Low Temperature Fuel Cells

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Condition: New. Publisher/Verlag: Wiley-VCH | Fundamentals and Recent Trends | Meeting the need for a text on solutions to conditions which have so far been a drawback for this important and trend-setting technology, this monograph places special emphasis on novel, alternative catalysts of low temperature fuel cells. Comprehensive in its coverage, the text discusses not only the electrochemical, mechanistic, and material scientific background, but also provides extensive chapters on the design and fabrication of electrocatalysts. A valuable resource aimed at multidisciplinary audiences in the fields of academia and industry. | PART I: LOW TEMPERATURE FUEL CELLSFundamentals and Research Advancements (polymer exchange membrane, direct alcohol, alkaline and regenerative fuel cells)Mechanisms of Electrocatalytic Processes (hydrogen oxidation/oxygen reduction, methanol/ethanol and formic acid oxidation)Mechanisms of Electrocatalytic Processes(Electrocatalysis for alkaline/borohydride fuel cells and regenerative fuel cells)PART II: ELECTROCATALYSISA. Non-Platinum ElectrocatalystsPlatinum-Group Metal Free Catalysts (cathode and anode catalysts) for Polymer Exchange Membrane Fuel CellsAdvances in Low Platinum Content Electrocatalysts (anode and cathode electrocatalyst) for Direct Alcohol Fuel CellsNon Platinum/Ultra Low Pt-Based Electrocatalysts (cathode and anode electrocatalysts) for Alkaline Fuel CellsElectrocatalysts for Hydrogen and Oxygen Evolution Reactions (Regenerative Fuel Cells)Role of Catalysts Supports - Graphene Based Novel ElectrocatalystsPerformance Comparison of Non-Platinum

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