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3.2.1 Electrochemical Studies of the Electrooxidation of Ethanol in Acid Medium 3.2.2 Identification of Ethanol Adsorbate and Oxidation Products by EC-FTIR and DEMS on Polycrystalline Pt and Pt/C Electrodes; 3.2.3 Adsorption and Electrooxidation of Acetic Acid; 3.2.4 Adsorption and Electrooxidation of Acetaldehyde; 3.3 Reaction Pathways and Mechanism of the Electrooxidation of Ethanol; 3.4 Designing of Supported Electrocatalysts for the Electrooxidation of Ethanol; 3.5 Fuel Cell Studies; 3.6 Summary; Acronyms and Symbols; References

4 Catalytic Processes Using Fuel Cells, Catalytic Batteries, and Hydrogen Storage Materials 4.1 Introduction; 4.2 Catalytic Processes in Fuel Cells; 4.2.1 Low-Temperature PEMFCs; 4.2.1.1 Hydrogen/Air(Oxygen) Fuel Cells; 4.2.1.1.1 Precious Metal-Based Catalysts; 4.2.1.1.2 Non-Precious Metal Catalysts; 4.2.1.2 Catalytic Processes in DMFCs; 4.2.1.2.1 Mechanism of Methanol Electrooxidation; 4.2.1.2.2 Precious Metal-Based Catalysts; 4.2.1.2.3 Non-Precious Metal Catalysts for Methanol Electrooxidation; 4.2.2 Solid Oxide Fuel Cells; 4.2.2.1 Methane Steam Reforming

4.3 Catalytic Processes in Batteries 4.3.1 Metal/Air Batteries; 4.3.1.1 Aqueous Electrolyte Metal/Air Batteries; 4.3.1.2 Non-Aqueous Electrolyte Li-Air Batteries; 4.3.2 Li-Water Batteries; 4.4 Catalytic Processes in Hydrogen Storage Materials; 4.4.1 Catalysis in Metal Hydrides; 4.4.2 Catalysts in Metal Organic Frameworks; 4.5 Summary; Acknowledgments; References; 5 Hydrogen Storage Materials; 5.1 Introduction; 5.2 Essential Properties of Hydrogen in Metals; 5.2.1 Thermodynamics; 5.2.2 Kinetics of Hydrogen Absorption and Desorption; 5.3 Hydride; 5.3.1 Ionic Hydride; 5.3.2 Covalent Hydride 5.3.3 Metallic Hydride (Interstitial Hydride)

Sommario/riassunto

New and Future Developments in Catalysis is a package of seven books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals. Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach. There will be extensive cross-referencing within all volumes. Batteries and fuel cells are considered to be environmentally friendly devices for storage and production of electricity, and they are gaining considerable
