1. Record Nr. UNINA9910459158203321

Titolo	Batteries, hydrogen storage and fuel cells [[electronic resource] /] / edited by Steven L. Suib
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2013
ISBN	0-444-53881-X
Descrizione fisica	1 online resource (551 p.)
Collana	New and future developments in catalysis
Altri autori (Persone)	SuibSteven L
Disciplina	621.3124
Soggetti	Fuel cells Hydrogen - Storage Catalysis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Half Title; Title Page; Copyright; Contents; Introduction; Contributors; 1 Catalytic Batteries; 1.1 Introduction; 1.2 Metal-Air Batteries; 1.2.1 Catalytic Materials in Metal-Air Cells; 1.2.2 Aluminum-Air Batteries; 1.2.3 Lithium-Air Batteries; 1.2.4 Magnesium-Air Batteries; 1.2.5 Zinc-Air Batteries; 1.3 Environmental Conditions for Catalysts; 1.4 Safety Concerns for Metal-Air Battery Experimentation; 1.5 Future of Catalysts in Metal-Air Batteries; References; 2 A Novel Enzymatic Technology for Removal of Hydrogen Sulfide from Biogas; 2.1 Introduction; 2.2 Experimental 2.3 Results and Discussion 2.3.1 Effect of Enzyme Concentration; 2.3.2 Effect of Gas Flow Rate; 2.3.3 Effect of Enzyme Replenishment; 2.3.3.1 Replenishment at Saturation Point; 2.3.3.2 Replenishment at H2S Breakthrough; 2.3.4 Effect of Packing Material; 2.3.5 Sulfur Components Recovery; 2.4 Conclusions; Acknowledgments; References; 3 Electrocatalysts for the Electrooxidation of Ethanol; 3.1 Introduction; 3.2 Electrooxidation of Ethanol on Polycrystalline Pt, Pt (hkl) Electrodes and Pt/C Electrodes. Identification and Oxidation of Ethanol Adsorbate (s) 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

2. Record Nr. UNINA9910158927403321

Titolo	The sixth extinction : an unnatural history by Elizabeth Kolbert | Key Takeaway, Analysis & Review
Pubbl/distr/stampa	[San Francisco, California] : , : Instaread, , 2015 ©2015
ISBN	1-943427-94-1
Descrizione fisica	1 online resource (19 p.)
Disciplina	576.84
Soggetti	Extinction (Biology) - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Key Takeaways, Analysis & Review."
Nota di bibliografia	Includes bibliographical references.

3.

Record Nr.	UNISA996201267903316
Autore	Weatherall D. J
Titolo	The thalassaemia syndromes [[electronic resource] /] / D.J. Weatherall and J.B. Clegg ; with contributions by R. Gibbons ... [et al.]
Pubbl/distr/stampa	Oxford ; ; Malden, Mass., : Blackwell Science, c2001
ISBN	1-282-12290-8 9786612122903 0-470-69670-2 0-470-69594-3
Edizione	[4th ed.]
Descrizione fisica	1 online resource (862 p.)
Altri autori (Persone)	CleggJ. B GibbonsR (Richard)
Disciplina	616.1 616.152
Soggetti	Thalassemia
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Two columns to the page.
Nota di bibliografia	Includes bibliographical references (p. 733-821) and index.
Nota di contenuto	pt. 1. Historical background -- pt. 2. The biology of the thalassaemias -- pt. 3. Clinical features of the thalassaemias -- pt. 4. Diagnosis and management of thalassaemia -- pt. 5. Future.
Sommario/riassunto	In the new edition of this successful and authoritative book, the thalassaemias are reviewed in detail with respect to their clinical features, cellular pathology, molecular genetics, prevention and treatment. It is aimed at specialists in haematology in the laboratory or clinical setting, particularly in areas where thalassaemia is common either in the native population or in immigrant communities. The fourth edition has been both updated and re-organized. Three new chapters have been added on the link between alpha-thalassaemia and mental retardation, on avoidance and population co