

1. Record Nr.	UNINA9910480830503321
Titolo	Muslim mothering : global histories, theories, and practices // edited by Margaret Aziza Pappano and Dana M. Olwan
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ISBN	1-77258-068-6
Descrizione fisica	1 online resource (xi, 297 pages)
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Soggetti	Motherhood - Religious aspects - Islam Mother and child - Religious aspects - Islam Parenting - Religious aspects - Islam Muslim women Mothers Electronic books.
Lingua di pubblicazione	Inglese
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2. Record Nr.	UNINA9910825392203321
Titolo	New and future developments in catalysis Catalysis by nanoparticles // edited by Steven L. Suib, Department of Chemistry and Chemical Engineering and Institute of Materials Science, The University of Connecticut, Storrs, CT 06269-3060
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2013 Amsterdam : , : Elsevier, , 2013
ISBN	0-444-53875-5
Descrizione fisica	1 online resource (xii, 499 pages) : illustrations (some color)
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Note generali	Description based upon print version of record.
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Nota di contenuto	Half Title; Title Page; Copyright; Contents; Introduction; Contributors; 1 Gold-Based Catalysts for CO Oxidation, the Water-Gas Shift, and Desulfurization Processes; 1.1 Introduction; 1.2 Bonding Interactions Between Gold and Metal Oxide or Carbide Surfaces; 1.3 Oxidation of Carbon Monoxide on Au-Oxide and Au-Carbide Surfaces; 1.4 Water-Gas Shift Reaction on Au-Oxide Surfaces; 1.5 Decomposition of Sulfur Dioxide on Au-Oxide and Au-Carbide Surfaces; 1.6 Conclusions; Acknowledgments; References; 2 Structural and Electronic Properties of Group 6 Transition Metal Oxide Clusters; 2.1 Introduction 2.2 Accurate Thermochemistry for Transition Metal Oxide Clusters 2.2.1 Heats of Formation; 2.2.2 Metal-Oxygen Bond Energies and Differential Clustering Energies; 2.3 Group 6 Transition Metal Oxides; 2.3.1 (MO) ₃ ; 2.3.2 M ₃ O ₉ ; 2.3.3 Reduced Metal Oxides: M ₃ O ₈ and M ₄ O ₁₀ ; 2.4 Group 6 Transition Metal Hydroxides: Hydrolysis of Metal Oxide Clusters; 2.4.1 Thermodynamic Properties; 2.4.2 H ₂ O Adsorption and Dissociation Energies; 2.4.3 Hydrolysis Potential Energy Surfaces; Conclusions; Acknowledgments; References; 3 Nanoparticle Catalysis for Reforming of Biomass-Derived Fuels; 3.1 Introduction 3.2 Biogas Reforming 3.2.1 Effect of Operating Conditions and Catalyst Components; 3.2.2 Challenges in Biogas Reforming; 3.2.3 Approaches

to Improve Biogas Reforming Activity and Stability; 3.2.3.1 Noble Metal Addition; 3.2.3.2 Bimetallic Catalysts; 3.2.3.3 Metal Loading; 3.2.3.4 Promoters; 3.2.3.5 Catalyst Synthesis; 3.2.4 Summary; 3.3 Oxygenates Reforming; 3.3.1 Effect of Operating Conditions and Catalyst Components; 3.3.2 Challenges in Oxygenates Reforming; 3.3.3 Approaches to Improve Oxygenate Reforming Activity and Stability; 3.3.3.1 Noble Metals Addition; 3.3.3.2 Bimetallic Catalysts 3.3.3.3 Metal Loading 3.3.3.4 Promoters; 3.3.3.5 Catalyst Synthesis; 3.3.4 Summary; 3.4 Conclusions; Acknowledgment; References; 4 Nanoparticles in Biocatalysis; 4.1 What is Biocatalysis?; 4.2 Nanomaterials as Enzyme Supports; 4.2.1 Enzymes Immobilized on Porous Silica; 4.2.2 Enzymes Immobilized on Magnetic Nanoparticles; 4.2.3 Enzymes Immobilized on Nanotubes; 4.2.4 Enzymes Immobilized on Protein Nanocages; 4.2.5 Hybrid Nanomaterials; 4.3 Bionanocatalysis; 4.3.1 Electrochemical Sensing; 4.3.2 Metal Nanoparticles Trapped within Living Organisms; 4.4 Conclusion; References
5 Thin Iron Heme Enzyme Films on Electrodes and Nanoparticles for Biocatalysis
5.1 Why Enzyme Biocatalysis on Electrodes and Nanoparticles?; 5.1.1 The Catalytic Cycle of Cyt P450s; 5.2 Cyt P450 Electrocatalysis on Electrodes; 5.2.1 Immobilization Strategies Using Purified Cyt P450s on Electrodes and Nanoparticles; 5.2.2 Reactions Catalyzed by Cyt P450s on Electrodes; 5.2.2.1 Immobilization of Microsomes Containing Cyt P450s on Electrodes for Catalysis; 5.2.3 Comparing Electrode vs. NADPH+CPR or H₂O₂ Driven Cyt P450 Catalysis; 5.2.4 Biocatalysis of Heme Enzymes Under Extreme Conditions
5.3 Cyt P450 Biocatalysis on Nanoparticles

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. The use of catalysts in the nanoscale offers various advantages (increased efficiency and less byproducts), and these are discussed in this volume along
