1. Record Nr. UNINA9910144379703321

Autore	Kolb Gunther
Titolo	Fuel processing : for fuel cells / / Gunther Kolb
Pubbl/distr/stampa	Weinheim, [Germany] : , : Wiley-VCH Verlag GmbH & Co. KGaA, , 2008 ©2008
ISBN	1-282-02172-9 9786612021725 3-527-62515-1 3-527-62516-X
Descrizione fisica	1 online resource (436 p.)
Disciplina	621.31/2429 621.312429
Soggetti	Fuel cells 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	Fuel Processing; Contents; Acknowledgement; 1 Introduction and Outline; 2 Fundamentals; 2.1 Common Fossil Fuels; 2.2 Basic Definitions, Calculations and Legislation; 2.3 The Various Types of Fuel Cells and the Requirements of the Fuel Processor; 2.3.1 PEM Fuel Cells; 2.3.2 High Temperature Fuel Cells; 3 The Chemistry of Fuel Processing; 3.1 Steam Reforming; 3.2 Partial Oxidation; 3.3 Oxidative Steam Reforming or Autothermal Reforming; 3.4 Catalytic Cracking of Hydrocarbons; 3.5 Pre-Reforming of Higher Hydrocarbons; 3.6 Homogeneous Plasma Reforming of Higher Hydrocarbons 3.7 Aqueous Reforming of Bio-Fuels3.8 Processing of Alternative Fuels; 3.8.1 Dimethyl Ether; 3.8.2 Methylcyclohexane; 3.8.3 Sodium Borohydride; 3.8.4 Ammonia; 3.9 Desulfurisation; 3.10 Carbon Monoxide Clean-Up; 3.10.1 Water-Gas Shift; 3.10.2 Preferential Oxidation of Carbon Monoxide; 3.10.3 Methanation; 3.11 Catalytic Combustion; 3.12 Coke Formation on Metal Surfaces; 4 Catalyst Technology for Distributed Fuel Processing Applications; 4.1 A Brief Introduction to Catalyst Technology and Evaluation; 4.1.1 Catalyst Activity; 4.1.2 Catalyst Stability; 4.1.3 Catalyst Coating Techniques

4.1.4 Specific Features Required for Fuel Processing Catalysts in Smaller Scale Applications4.2 Reforming Catalysts; 4.2.1 Catalysts for Methanol Reforming; 4.2.2 Catalysts for Ethanol Reforming; 4.2.3 Overview of Catalysts for Hydrocarbon Reforming; 4.2.4 Catalysts for Natural Gas/Methane Reforming; 4.2.5 Catalysts for Reforming of LPG; 4.2.6 Catalysts for Pre-Reforming of Hydrocarbons; 4.2.7 Catalysts for Gasoline Reforming; 4.2.8 Catalysts for Diesel and Kerosene Reforming; 4.2.9 Cracking Catalysts; 4.2.10 Deactivation of Reforming Catalysts by Sintering
4.2.11 Deactivation of Reforming Catalysts by Coke Formation4.2.12 Deactivation of Reforming Catalysts by Sulfur Poisoning; 4.3 Catalysts for Hydrogen Generation from Alternative Fuels; 4.3.1 Dimethyl Ether; 4.3.2 Methylcyclohexane; 4.3.3 Sodium Borohydride; 4.3.4 Ammonia; 4.4 Desulfurisation Catalysts/Adsorbents; 4.5 Carbon Monoxide Clean-Up Catalysts; 4.5.1 Catalysts for Water-Gas Shift; 4.5.2 Catalysts for the Preferential Oxidation of Carbon Monoxide; 4.5.3 Methanation Catalysts; 4.6 Combustion Catalysts; 5 Fuel Processor Design Concepts; 5.1 Design of the Reforming Process
5.1.1 Steam Reforming5.1.2 Partial Oxidation; 5.1.3 Autothermal Reforming; 5.1.4 Catalytic Cracking; 5.1.5 Pre-Reforming; 5.2 Design of the Carbon Monoxide Clean-Up Devices; 5.2.1 Water-Gas Shift; 5.2.2 Preferential Oxidation of Carbon Monoxide; 5.2.3 Selective Methanation of Carbon Monoxide; 5.2.4 Membrane Separation; 5.2.5 Pressure Swing Adsorption; 5.3 Aspects of Catalytic Combustion; 5.4 Design of the Overall Fuel Processor; 5.4.1 Overall Heat Balance of the Fuel Processor; 5.4.2 Interplay of the Different Fuel Processor or Components; 5.4.3 Overall Water Balance of the Fuel Processor
5.4.4 Overall Basic Engineering of the Fuel Processor

Sommario/riassunto

Adopting a unique integrated engineering approach, this text covers all aspects of fuel processing: catalysts, reactors, chemical plant components and integrated system design. While providing an introduction to the subject, it also contains recent research developments, making this an invaluable handbook for chemical, power and process engineers, electrochemists, catalytic chemists, materials scientists and engineers in power technology.

2. Record Nr. UNINA9910139468303321

Titolo	Magnetic nanoparticles [[electronic resource] /] / edited by Sergey P. Gubin
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2009
ISBN	1-282-46105-2 9786612461057 3-527-62756-1 1-61583-495-8 3-527-62757-X
Descrizione fisica	1 online resource (482 p.)
Altri autori (Persone)	GubinS. P (Sergei Pavlovich)
Disciplina	620.5
Soggetti	Magnetic nanoparticles 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	Magnetic Nanoparticles; Contents; Preface; List of Contributors; 1 Introduction; 1.1 Some Words about Nanoparticles; 1.2 Scope; 1.2.1 Magnetic Nanoparticles Inside Us and Everywhere Around Us; 1.3 The Most Extensively Studied Magnetic Nanoparticles and Their Preparation; 1.3.1 Metals; 1.3.2 Nanoparticles of Rare Earth Metals; 1.3.3 Oxidation of Metallic Nanoparticles; 1.3.4 Magnetic Alloys; 1.3.4.1 Fe-Co Alloys; 1.3.5 Magnetic Oxides; 1.3.6 Final Remarks; 2 Synthesis of Nanoparticulate Magnetic Materials; 2.1 What Makes Synthesis of Inorganic Nanoparticles Different from Bulk Materials? 2.2 Synthesis of Magnetic Metal Nanoparticles2.2.1 Reduction of Metal Salts in Solution; 2.2.1.1 Electron Transfer Reduction; 2.2.1.2 Reduction via Intermediate Complexes; 2.2.2 Thermal Decomposition Reactions; 2.2.2.1 Decomposition of Metal Carbonyls; 2.2.2.2 Decomposition of Metal Alkene and Arene Complexes; 2.2.3 Combination Methods Used for Synthesis of Alloy Nanoparticles; 2.3 Synthesis of Magnetic Metal Oxide Nanoparticles; 2.3.1 Reactions of Hydrolysis; 2.3.1.1 Hydrolysis in Aqueous Solutions; 2.3.1.2 Hydrolysis in Nonaqueous Solutions; 2.3.2 Oxidation Reactions

2.3.3 Thermal Decomposition of Metal Complexes with O-Donor Ligands2.4 Technology of the Preparation of Magnetic Nanoparticles; 2.4.1 Stabilizing Agents in Homogeneous Solution Techniques; 2.4.2 Heterogeneous Solution Techniques; 2.5 Conclusions; 3 Magnetic Metallopolymer Nanocomposites: Preparation and Properties; 3.1 Introduction; 3.2 The General Methods of Synthesis and Characterization of Magnetic Nanoparticles in a Polymer Matrix; 3.2.1 Magnetic Nanoparticles in Inorganic Matrices; 3.2.2 Magnetic Nanoparticles in Polymer Matrices
3.2.3 Preparation of Magnetic Polymer Nanocomposites in Magnetic Fields3.2.4 Peculiarities of Magnetic Behavior of Metallic Nanoparticles in Polymer Matrix; 3.3 Magnetic Metal Nanoparticles in Stabilizing the Polymer Matrix In Situ via Thermal Transformations of Metal-Containing Monomers; 3.3.1 The Kinetics of Thermolysis of Metal-Containing Monomers; 3.3.1.1 Dehydration; 3.3.1.2 Polymerization; 3.3.1.3 Kinetics of Decarboxylation; 3.3.2 The Topography and Structure of Magnetic Metallopolymer Nanocomposites; 3.3.3 The Magnetic Properties of the Metallopolymer Nanocomposites; 3.4 Conclusion
Acknowledgments4 Magnetic Nanocomposites Based on the Metal-Containing (Fe, Co, Ni) Nanoparticles Inside the Polyethylene Matrix; 4.1 Introduction; 4.2 Experimental Details; 4.2.1 Synthesis; 4.2.2 Composition and Structure of Magnetic Nanometallopolymers; 4.3 Magnetic Properties of Metal-Containing Nanoparticles; 4.3.1 Iron Containing Nanoparticles; 4.3.2 Iron Oxide Nanoparticles; 4.3.3 Cobalt Nanoparticles; 4.3.4 Co@Fe2O3 Particles; 4.4 FMR Investigations of Nanocomposites; 4.5 Conclusions; Acknowledgments
5 Organized Ensembles of Magnetic Nanoparticles: Preparation, Structure, and Properties

Sommario/riassunto

This interdisciplinary approach to the topic brings together reviews of the physics, chemistry, fabrication and application of magnetic nanoparticles and nanostructures within a single cover. With its discussion of the basics as well as the most recent developments, and featuring many examples of practical applications, the result is both a clear and concise introduction to the topic for beginners and a guide to relevant comprehensive physical phenomena and essential technological applications for experienced researchers.

3. Record Nr. UNISA996395822803316

Autore	Fox George <1624-1691.>
Titolo	A declaration to the Iews for them to read over [[electronic resource]] : in which they may see that the Messiah is come, according to their own prophets and Gabriel the angel, and according their own number of time and years, out of Daniel 9 / / by George Fox
Pubbl/distr/stampa	London, : Printed for John White ..., 1661
Descrizione fisica	12 p
Soggetti	Messiah - Prophecies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Errata: p. 12. Reproduction of original in Huntington Library.
Sommario/riassunto	eebo-0113

4.

Record Nr.	UNINA9910737496903321
Autore	Leibniz, Gottfried Wilhelm
Titolo	Essais de théodicée : sur la bonté de Dieu, la liberté de l'homme et l'origine du mal : suivi de la monadologie / Leibniz ; préface et notes de Jaques Jalabert
Pubbl/distr/stampa	Paris, : Aubier, èditions Montaigne, 1962
Descrizione fisica	522 p. ; 19 cm
Collana	Bibliothèque philosophique
Locazione	FI1
Collocazione	F.D.i2-475
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia