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Coal Science Catalysts for Alcohol-fuelled Direct Oxidation Fuel Cells **Proton Exchange Membrane Fuel Cells 8** *Surface and Interface Science, Volumes 9 and 10* **Paper Nanotechnology in Oil and Gas Industries** Catalysts for Syngas Production **Advances in Synthesis Gas: Methods, Technologies and Applications** **Official Gazette of the United States Patent and Trademark Office** Sustainable Catalytic Production of Bio-Based Heteroatom-Containing Compounds **Deactivation of Heavy Oil Hydroprocessing Catalysts** Federal Trade Commission Decisions **Gas Electrochemical Activation of Catalysis Membrane Reactors for Hydrogen Production Processes** Selective Catalytic Reduction of NO_x *Fuel Cells: Technologies for Fuel Processing* Cycle World Magazine **The Oil and Gas Journal** *Controlling Exposure to Diesel Emissions in Underground Mines* Chemical Catalysts for Biomass Upgrading Energy Research Abstracts Catalytic Materials for Hydrogen Production and Electro-oxidation Reactions **Productivity Reports** **Green Diesel Engines** Information Circular **Diesels in Underground Mines** *Thermo-and Fluid-dynamic Processes in Diesel Engines* Advanced Solid Catalysts for Renewable Energy Production *Bibliography of the Fischer-Tropsch Synthesis and Related Processes* **Integrated Natural Resources Research Journal of the Society of Chemical Industry** *PEM Fuel Cell Failure Mode Analysis* **Catalysts in Petroleum Refining and Petrochemical Industries** **1995 Productivity Team Reports** Low-temperature Carbonization of Lignite and Subbituminous Coal Diesel Emissions and Their Control Handbook of Biofuels Production *Oil & Gas Journal* **Materials for Energy Conversion Devices**

Productivity Team Reports

Nov 28 2019

The Oil and Gas Journal

Apr 13 2021

Sustainable Catalytic Production of Bio-Based Heteroatom-Containing Compounds Jan 23 2022

Selective Catalytic Reduction of NO_x Jul 17 2021

This book is a printed edition of the Special Issue "Selective Catalytic Reduction of NO_x" that was published in *Catalysts* *Fuel Cells: Technologies for Fuel Processing* Jun 15 2021 *Fuel Cells: Technologies for Fuel Processing* provides an overview of the most important aspects of fuel reforming to the generally interested reader, researcher, technologist, teacher, student, or engineer.

The topics covered include all aspects of fuel reforming: fundamental chemistry, different modes of reforming, catalysts, catalyst deactivation, fuel desulfurization, reaction engineering, novel reforming concepts, thermodynamics, heat and mass transfer issues, system design, and recent research and development. While no attempt is made to describe the fuel cell itself, there is sufficient description of the fuel cell to show how it affects the fuel reformer. By focusing on the fundamentals, this book aims to be a source of information now and in the future. By avoiding time-sensitive information/analysis (e.g., economics) it serves as a single source of information for scientists and engineers in fuel

processing technology. The material is presented in such a way that this book will serve as a reference for graduate level courses, fuel cell developers, and fuel cell researchers. Chapters written by experts in each area Extensive bibliography supporting each chapter Detailed index Up-to-date diagrams and full colour illustrations

Official Gazette of the United States Patent and Trademark Office Feb 21 2022

Catalytic Materials for Hydrogen Production and Electro-oxidation Reactions Dec 10 2020

The implementation of hydrogen production processes on an industrial scale requires a comprehensive understanding

of the chemical properties of catalytic materials and the applications such materials in electrocatalysis. This volume presents information about catalytic materials for hydrogen production and hydrogen valorization in electro-oxidation reactions. Chapters emphasize on materials for classical steam, CO₂ sorption enhanced steam reforming and dry reforming for hydrogen production. The hydrogen electro-oxidation reaction in anodes of Solid Oxide Fuel Cells (SOFCs) is also explained. Chapters have been contributed by experts in industrial chemistry, adding a valuable perspective for readers. This volume is essential to chemical engineering researchers and industrial professionals interested in hydrogen production systems and the science behind the materials driving the reactions in key processes.

Advanced Solid Catalysts for Renewable Energy Production

Jun 03 2020 In recent years, the replacement of non-renewable crude oil by renewable sources has been addressed, particularly in developed countries. Its main driving force has been the increasing demand and limited reserves of fossil fuels, the greenhouse gas effect, and the need of securing energy supplies. Advanced Solid Catalysts for Renewable Energy Production provides emerging research on renewable energy production, catalysts, and environmental effects of increased productivity. While highlighting

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the challenges for future generations to develop in the sustainable energy age, readers will learn the importance of new approaches not only for synthesizing more active and selective (nano)catalysts, but also, for designing innovative catalytic processes that can eventually meet the growing energy efficiency demand and overcome the environmental issues. This book is an important resource for academicians, university researchers, technology developers, and graduate level students.

Cycle World Magazine May 15 2021

Electrochemical Activation of Catalysis Sep 18 2021

This book describes the phenomenology, theory and potential applications of the phenomenon of electrochemical promotion, where electrochemically induced ion spillover activates and controls heterogeneous catalysis. The origin of electrochemical promotion is discussed in light of a plethora of surface spectroscopic and electrochemical techniques. Electrochemical and classical promotion are compared, their common rules are identified and promotional kinetics are rigorously modeled and compared with experiment.

Advances in Synthesis Gas: Methods, Technologies and Applications Mar 25 2022

Advances in Synthesis Gas: Methods, Technologies and Applications: Syngas Production and Preparation is a collection of various chapters concerning many aspects of

syngas production technologies, including common methods like gasification, steam/dry/autothermal reforming, membrane technology, etc., along with novel methods like plasma technology, micro-reactors, electrolysis processes as well as photocatalytic systems. In addition, different sources for producing syngas, including oil, crude oil, heavy oil, microalgae, black liquor, tar and bitumen, as well as municipal, agricultural, food, plastic, wood and cardboard wastes are described in detail. Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks *Thermo-and Fluid-dynamic Processes in Diesel Engines* Jul 05 2020 This volume includes versions of papers selected from those presented at the THIESEL 2000 Conference on Thermofluidynamic Processes in Diesel Engines, held at the Universidad Politecnica de Valencia, during the period of September th th 13 to 15 , 2000. The papers are grouped into seven thematic areas: State of the Art and Prospective, Fuels for Diesel Engines, Injection System and Spray Formation, Combustion and Pollutant Formation, Modelling, Experimental Techniques, and Air Management. These areas cover most of the technologies and research strategies that may allow Light Duty and Heavy Duty Diesel engines to

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comply with current and forthcoming emission standards, while maintaining or improving fuel consumption. The main objectives of the conference were to bring together ideas and experience from Industry and Universities to facilitate interchange of information and to promote discussion of future research and development needs. The technical papers emphasised the use diagnostic and simulation techniques and their relationship to engineering practice and the advancement of the Diesel engine. We hope that this approach, which proved to be successful at the Conference, is reflected in this volume. We thank all those who contributed to the success of the Conference, and particularly the members of the Advisory Committee who assessed abstracts and chaired many of the technical sessions. We are also grateful to participants who presented their work or contributed to the many discussions. Finally, the Conference benefitted from financial support from the organisations listed below and we are glad to have this opportunity to record our gratitude.

Catalysts for Syngas

Production Apr 25 2022 This Special Issue on "Catalysts for Syngas Production", included in the Catalysts open access journal, shows new research about the development of catalysts and catalytic routes for syngas production, and the optimization of the reaction conditions for the process. This issue includes ten articles about the different innovative

processes for syngas production. Synthesis gas (or syngas) is a mixture of hydrogen and carbon monoxide, with different chemical composition and H₂/CO molar ratios, depending on the feedstock and production technology used. Syngas may be obtained from alternative sources to oil, such as natural gas, coal, biomass, organic wastes, etc. Syngas is a very good intermediate for the production of high value compounds at the industrial scale, such as hydrogen, methanol, liquid fuels, and a wide range of chemicals. Accordingly, efforts should be made on the co-feeding of CO₂ with syngas, as an alternative for reducing greenhouse gas emissions. In addition, more syngas will be required in the near future, in order to satisfy the demand for synfuels and high value chemicals.

Nanotechnology in Oil and Gas Industries

May 27 2022 This book provides a powerful source to develop new, rapid and highly efficient materials for the application in various fields of oil and gas. It focuses on the synthesis, characterization and applications of various Nanomaterials, presenting the state-of-the-art in developments and innovations in nanocomposites. This book provides the complete practical and theoretical information about the synthesis of nanoparticles with potential use in the field of oil and gas.

Deactivation of Heavy Oil Hydroprocessing Catalysts

Dec 22 2021 Written by a scientist and researcher with

more than 25 years of experience in the field, this serves as a complete guide to catalyst activity loss during the hydroprocessing of heavy oils. Explores the physical and chemical properties of heavy oils and hydroprocessing catalysts; the mechanisms of catalyst deactivation; catalyst characterization by a variety of techniques and reaction conditions; laboratory and commercial information for model validations; and more Demonstrates how to develop correlations and models for a variety of reaction scales with step-by-step descriptions and detailed experimental data Contains important implications for increasing operational efficiencies within the petroleum industry An essential reference for professionals and researchers working in the refining industry as well as students taking courses on chemical reaction engineering

Membrane Reactors for Hydrogen Production Processes

Aug 18 2021 Membrane Reactors for Hydrogen Production Processes deals with technological and economic aspects of hydrogen selective membranes application in hydrogen production chemical processes. Membrane Reactors for Hydrogen Production Processes starts with an overview of membrane integration in the chemical reaction environment, formulating the thermodynamics and kinetics of membrane reactors and assessing the performance of different process architectures.

Then, the state of the art of hydrogen selective membranes, membrane manufacturing processes and the mathematical modeling of membrane reactors are discussed. A review of the most useful applications from an industrial point of view is given. These applications include: natural gas steam reforming, autothermal reforming, water gas shift reaction, decomposition of hydrogen sulphide, and alkanes dehydrogenation. The final part is dedicated to the description of a pilot plant where the novel configuration was implemented at a semi-industrial scale. Plant engineers, researchers and postgraduate students will find

Membrane Reactors for Hydrogen Production Processes a comprehensive guide to the state of the art of membrane reactor technology. *PEM Fuel Cell Failure Mode Analysis* Jan 29 2020 PEM Fuel Cell Failure Mode Analysis presents a systematic analysis of PEM fuel cell durability and failure modes. It provides readers with a fundamental understanding of insufficient fuel cell durability, identification of failure modes and failure mechanisms of PEM fuel cells, fuel cell component degradation testing, and mitigation strategies against degradation. The first several chapters of the book examine the degradation of various fuel cell components, including degradation mechanisms, the effects of operating conditions, mitigation strategies, and testing protocols. The book then discusses the effects of different contamination sources

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on the degradation of fuel cell components and explores the relationship between external environment and the degradation of fuel cell components and systems. It also reviews the correlation between operational mode, such as start-up and shut-down, and the degradation of fuel cell components and systems. The last chapter explains how the design of fuel cell hardware relates to failure modes. Written by international scientists active in PEM fuel cell research, this volume is enriched with practical information on various failure modes analysis for diagnosing cell performance and identifying failure modes of degradation. This in turn helps in the development of mitigation strategies and the increasing commercialization of PEM fuel cells.

Chemical Catalysts for Biomass Upgrading Feb 09 2021 A comprehensive reference to the use of innovative catalysts and processes to turn biomass into value-added chemicals **Chemical Catalysts for Biomass Upgrading** offers detailed descriptions of catalysts and catalytic processes employed in the synthesis of chemicals and fuels from the most abundant and important biomass types. The contributors?noted experts on the topic?focus on the application of catalysts to the pyrolysis of whole biomass and to the upgrading of bio-oils. The authors discuss catalytic approaches to the processing of biomass-derived oxygenates, as exemplified by sugars, via reactions such as reforming, hydrogenation, oxidation, and

condensation reactions. Additionally, the book provides an overview of catalysts for lignin valorization via oxidative and reductive methods and considers the conversion of fats and oils to fuels and terminal olefins by means of esterification/transesterification, hydrodeoxygenation, and decarboxylation/decarbonylation processes. The authors also provide an overview of conversion processes based on terpenes and chitin, two emerging feedstocks with a rich chemistry, and summarize some of the emerging trends in the field. This important book: - Provides a comprehensive review of innovative catalysts, catalytic processes, and catalyst design -Offers a guide to one of the most promising ways to find useful alternatives for fossil fuel resources - Includes information on the most abundant and important types of biomass feedstocks - Examines fields such as catalytic cracking, pyrolysis, depolymerization, and many more Written for catalytic chemists, process engineers, environmental chemists, bioengineers, organic chemists, and polymer chemists, **Chemical Catalysts for Biomass Upgrading** presents deep insights on the most important aspects of biomass upgrading and their various types. **Diesel Emissions and Their Control** Sep 26 2019 This book will assist readers in meeting today's tough challenges of improving diesel engine emissions, diesel efficiency, and public perception of the diesel engine. It can be used as an introductory text, while at

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the same time providing practical information that will be useful for experienced readers. This comprehensive book is well illustrated with more than 560 figures and 80 tables. Each main section is broken down into chapters that offer more specific and extensive information on current issues, as well as answers to technical questions.

Journal of the Society of

Chemical Industry Mar 01

2020 Includes list of members, 1882-1902 and proceedings of the annual meetings and various supplements.

Coal Science Nov 01 2022

This volume contains papers presented at the 8th International Conference on Coal Science, held in Oviedo, Spain, September 10-15, 1995. Volume I contains papers dealing with Fundamentals and General Aspects, Combustion and Gasification and Pyrolysis and Carbonization. Volume II covers papers discussing Liquefaction and Hydrolysis and Coal and the Environment. The scope of topics covered will give the reader a state-of-the-art impression of coal characterization and depolymerization, coal-derived carbons, coal carbonization and liquefaction, and the progress towards making coal an environmentally acceptable fuel during its combustion in electricity production. The use of modern physicochemical characterization techniques has advanced knowledge of coal composition and structure enormously in the last twenty years, and it is hoped that coal will enter into the next

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millennium as a clean and efficient fuel.

Catalysts in Petroleum Refining and Petrochemical Industries 1995 Dec 30 2019

Catalysis plays an increasingly critical role in modern petroleum refining and basic petrochemical industries as market demands for and specifications of petroleum and petrochemical products are continuously changing. As we enter the 21st century, new challenges for catalysis science and technology are anticipated in almost every field.

Particularly, better utilization of petroleum resources and demands for cleaner transportation fuels are major items. It was against this background that the 2nd International Conference on Catalysts in Petroleum Refining and Petrochemical Industries was organized. The conference was attended by around 300 specialists in the catalysis field from both academia and industry from over 30 countries. It provided a forum for the exchange of ideas between scientists and engineers from the region with their counterparts from industrialized countries. The papers from the conference, which were carefully selected from around 100 submissions, were refereed in terms of scientific and technical content and format in accordance with internationally accepted standards. They comprise a mix of reviews providing an overview of selected areas, original fundamental research results, and industrial experiences.

[Energy Research Abstracts](#) Jan

11 2021

Integrated Natural Resources Research Apr 01 2020 This book is a sister volume to Volume 20 of the Handbook of Environmental Engineering Series, "Integrated Natural Resources Management", and expands on the themes of that volume by addressing the conservation and protection of natural resources in an environmental engineering context through state-of-the-art research methodologies and technologies. With a focus on water and wastewater treatment, the book takes a multidisciplinary approach to provide readers with an understanding of developments in natural resources technology over the last few decades, and how technology and industry methods will progress to ensure cleaner and sustainable methods of natural resources management. The key topics covered include biological activated carbon treatment for recycling biotreated wastewater, composting for food processing wastes, treatment of wastewater from chemical industries, agricultural waste as a low-cost adsorbent, and the invention, design and construction of potable water dissolved air flotation and filtration plants. The book will be useful to environmental resources engineers, researchers, water treatment plant managers, chemical engineers, industrial plant managers, and environmental conservation agencies.

Materials for Energy Conversion Devices Jun 23

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2019 As the finite capacity and pollution problems of fossil fuels grow more pressing, new sources of more sustainable energy are being developed. Materials for energy conversion devices summarises the key research on new materials which can be used to generate clean and renewable energy or to help manage problems from existing energy sources. The book discusses the range of materials that can be used to harness and convert solar energy in particular, including the properties of oxide materials and their use in producing hydrogen fuel. It covers thermoelectric materials and devices for power generation, ionic conductors and new types of fuel cell. There are also chapters on the use of such materials in the immobilisation of nuclear waste and as electrochemical gas sensors for emission control. With its distinguished editors and international team of contributors, Materials for energy conversion devices is a standard reference for all those researching and developing a new generation of materials and technologies for our energy need. Detailed coverage of solar energy and thermoelectric conversion Comprehensive survey of new developments in this exciting field Edited by leading experts in the field with contributions from an international team of authors

Diesels in Underground

Mines Aug 06 2020

[Handbook of Biofuels](#)

[Production](#) Aug 25 2019 In response to the global increase in the use of biofuels as

substitute transportation fuels, advanced chemical, biochemical and thermochemical biofuels production routes are fast being developed. Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The range of biofuels has also increased to supplement bioethanol and biodiesel production, with market developments leading to the increased production and utilisation of such biofuels as biosyngas, biohydrogen and biobutanol, among others. Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Part one reviews the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development. Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo-chemical conversion, with both sections detailing the wide range of processes and technologies applicable to the production of first, second and third generation biofuels. Finally, Part four reviews developments in the integration of biofuels production, including biorefineries and by-product valorisation, as well as the utilisation of biofuels in diesel engines. With its distinguished international team of contributors, Handbook of

biofuels production is a standard reference for biofuels production engineers, industrial chemists and biochemists, plant scientists, academics and researchers in this area. A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development Reviews chemical and bio-chemical conversion techniques as well as thermal and thermo-chemical conversion, detailing the range of processes and technologies applicable to biofuels production [Federal Trade Commission Decisions](#) Nov 20 2021 [Catalysts for Alcohol-fuelled Direct Oxidation Fuel Cells](#) Sep 30 2022 Energy and environment issues are of paramount importance to achieve the sustainable development of our society. Alcohol-fuelled direct oxidation fuel cells (DOFCs), as a clean and highly-efficient energy harvesting engine, have attracted intensive research activity over recent decades. Electrocatalysts are the material at the very heart of the cell that determines the performance of DOFCs. The rapid advances in electrocatalysts, particularly nano-sized ones, have left current information only available in scattered journals. To be truly useful to both present and future researchers, a new book is needed to present an insightful review of the reaction nature of this

research and to systematically summarize recent advances in nanocatalysts, and convey a more global perspective. Catalysts for Alcohol-fuelled Direct Oxidation Fuel Cells will present a state-of-the-art review on recent advances in nanocatalysts and electrocatalysis in DOFCs, including both proton and hydroxide ion exchange membrane fuel cells. The main topics covered include a molecular-level understanding of electrocatalysis, the design principles of electrocatalysts, recent advances in nanocatalysts and future perspectives for DOFCs. The book presents a cutting-edge collection on nanocatalysts for alcohol-fuelled direct oxidation fuel cells and brings together the most authoritative researchers in the field from both industry and academia, filling the gap between both sides. Finally, the book will provide an insightful review on electrocatalysis at the molecular-level, which will be useful for postgraduate students and junior researchers in this field. It will be an essential resource for postgraduates, researchers and policy-makers globally in academia, industry, and government institutions.

Paper Jun 27 2022

Low-temperature Carbonization of Lignite and Subbituminous Coal Oct 27 2019

Gas Oct 20 2021

Bibliography of the Fischer-Tropsch Synthesis and Related Processes May 03 2020

Controlling Exposure to Diesel Emissions in Underground

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Mines Mar 13 2021 The use of diesel-powered equipment in underground mining operations provides many benefits to the industry. It also presents many challenges to the health and safety of workers as it is a significant source of submicrometer aerosols and noxious gases. This book was developed to assist the coal and metal/nonmetal underground mining industries in their efforts to reduce the exposure of workers to aerosols and gases from diesel-powered equipment. It includes information collected by researchers at the National Institute for Occupational Safety and Health/Office of Mine Safety and Health Research (NIOSH/OMSHR). Prior to the production of this text, the knowledge on this complex issue was fragmented. The goal of this volume is to make the information available in one easy-to-use reference. The book includes comprehensive, mine-specific programs for use by mechanics, mine ventilation engineers, industrial hygienists, mine managers, union health and safety representatives, and personnel responsible for the acquisition of diesel vehicles, engines, exhaust aftertreatment systems, fuels, and lubricants. The description of methods to reduce exposure to diesel aerosols includes curtailment of diesel particulate matter and gaseous emissions at their source, and controlling airborne pollutants with ventilation and personal protective equipment. This information should also help

researchers in industry, government, and academia to identify areas that need to be addressed in future research and development efforts.

Information Circular Sep 06 2020

Productivity Reports Nov 08 2020

Green Diesel Engines Oct 08 2020 With a focus on ecology, economy and engine performance, diesel engines are explored in relation to current research and developments. The prevalent trends in this development are outlined with particular focus on the most frequently used alternative fuels in diesel engines; the properties of various type of biodiesel and the concurrent improvement of diesel engine characteristics using numeric optimization alongside current investigation and research work in the field. Following of a short overview of engine control, aftertreatment and alternative fuels, Green Diesel Engine explores the effects of biodiesel usage on injection, fuel spray, combustion, and tribology characteristics, and engine performance. Additionally, optimization procedures of diesel engine characteristics are discussed using practical examples and each topic is corroborated and supported by current research and detailed illustrations. This thorough discussion provides a solid foundation in the current research but also a starting point for fresh ideas for engineers involved in developing/adjusting diesel engines for usage of alternative fuels, researchers in renewable

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energy, as well as to engineers, advanced undergraduates, and postgraduates.

Proton Exchange Membrane Fuel Cells 8

Aug 30 2022 This international symposium is devoted to all aspects of research, development, and engineering of proton exchange membrane (PEM) fuel cells and stacks, as well as low-temperature direct-fuel cells. The intention is to bring together the international community working on the subject and to enable effective interactions between research and engineering communities.

Oil & Gas Journal Jul 25 2019
Surface and Interface Science, Volumes 9 and 10 Jul 29 2022

In ten volumes, this unique handbook covers all fundamental aspects of surface and interface science and offers a comprehensive overview of this research area for scientists working in the

field, as well as an introduction for newcomers. Volume 1: Concepts and Methods Volume 2: Properties of Elemental Surfaces Volume 3: Properties of Composite Surfaces: Alloys, Compounds, Semiconductors Volume 4: Solid-Solid Interfaces and Thin Films Volume 5: Solid-Gas Interfaces I Volume 6: Solid-Gas Interfaces II Volume 7: Liquid and Biological Interfaces Volume 8: Interfacial Electrochemistry Volume 9: Applications of Surface Science I Volume 10: Applications of Surface Science II Content of Volumes 8 & 9: * Surface Analytics with X-Ray Photoelectron and Auger Electron Spectroscopy on Coated Steel Sheets * Applications of Graphene * Industrial Heterogeneous Catalysis * Automotive Catalysis * High-Throughput Heterogeneous Catalyst

Research, Development, Scale-Up, and Production Support * Industrial Separation of Insulating Particles: Triboelectric Charging * Friction: Friend and Foe * Surface Science and Flotation * Application of Surface Science to Corrosion * Electrons, Electrodes, and the Transformation of Organic Molecules * Self-Cleaning Surfaces: From Fundamental Aspect to Real Technical Applications * Thin Films: Sputtering, PVD Methods and Applications * Wafer Bonding * Superconformal Deposition * Spintronics: Surface and Interface Aspects * Device Efficiency of Organic Light-Emitting Diodes * Dye-Sensitized Solar Cells * Electronic Nose: Current Status and Future Trends * Surface Science in Batteries * Surface and Interface Science in Fuel Cells Research