

Zeolites Synthesis Chemistry And Applications Materials Science And Technologies Chemical Engineering Methods And Technology

Jiří Čejka, Russell E. Morris

Zeolites and Catalysis Jiri Cejka, Avelino Corma, Stacey Zones, 2010-05-27 This indispensable two-volume handbook covers everything on this hot research field. The first part deals with the synthesis, modification, characterization and application of catalytic active zeolites, while the second focuses on such reaction types as cracking, hydrocracking, isomerization, reforming and other industrially important topics. Edited by a highly experienced and internationally renowned team with chapters written by the Who's Who of zeolite research.

Chemistry of Silica and Zeolite-Based Materials Abderrazzak Douhal, Masakazu Anpo, 2019-07-04 Chemistry of Silica and Zeolite-Based Materials covers a wide range of topics related to silica-based materials from design and synthesis to applications in different fields of science and technology. Since silica is transparent and inert to the light, it is a very attractive host material for constructing artificial photosynthesis systems. As an earth-abundant oxide, silica is an ideal and basic material for application of various oxides, and the science and technology of silica-based materials are fundamentally important for understanding other oxide-based materials. The book examines nanosolvation and confined molecules in silica hosts, catalysis and photocatalysis, photonics, photosensors, photovoltaics, energy, environmental sciences, drug delivery, and health. Written by a highly experienced and internationally renowned team from around the world, Chemistry of Silica and Zeolite-Based Materials is ideal for chemists, materials scientists, chemical engineers, physicists, biologists, biomedical sciences, environmental scientists, toxicologists, and pharma scientists. --- The enormous versatility of silica for building a large variety of materials with unique properties has been very well illustrated in this book.... The reader will be exposed to numerous potential applications of these materials - from photocatalytic, optical and electronic applications, to chemical reactivity in confined spaces and biological applications. This book is of clear interest not only to PhD students and postdocs, but also to researchers in this field seeking an understanding of the possible applications of meso and microporous silica-derived materials. - Professor Avelino Corma, Institute of Chemical Technology (ITQ-CSIC) and Polytechnical University of

Valencia, Spain - Discusses the most important advances in various fields using silica materials, including nanosolvation and confined molecules in silica hosts, catalysis and photocatalysis, and other topics - Written by a global team of experts from a variety of science and technology disciplines - Ideal resource for chemists, materials scientists, and chemical engineers working with oxide-based materials

Chemistry of Zeolites and Related Porous Materials Ruren Xu, Wenqin Pang, Jihong Yu, Qisheng Huo, Jiesheng Chen, 2009-05-29 Widely used in adsorption, catalysis and ion exchange, the family of molecular sieves such as zeolites has been greatly extended and many advances have recently been achieved in the field of molecular sieves synthesis and related porous materials. Chemistry of Zeolites and Related Porous Materials focuses on the synthetic and structural chemistry of the major types of molecular sieves. It offers a systematic introduction to and an in-depth discussion of microporous, mesoporous, and macroporous materials and also includes metal-organic frameworks. Provides focused coverage of the key aspects of molecular sieves Features two frontier subjects: molecular engineering and host-guest advanced materials Comprehensively covers both theory and application with particular emphasis on industrial uses This book is essential reading for researches in the chemical and materials industries and research institutions. The book is also indispensable for researches and engineers in R&D (for catalysis) divisions of companies in petroleum refining and the petrochemical and fine chemical industries.

Zeolites in Catalysis Jiří Čejka, Russell E. Morris, 2017-06-07 Accessible references for researchers and industrialists in this exciting field, covering both developments and applications of catalysis.

Mesoporous Zeolites Javier García-Martínez, Kunhao Li, 2015-05-26 Authored by a top-level team of both academic and industrial researchers in the field, this is an up-to-date review of mesoporous zeolites. The leading experts cover novel preparation methods that allow for a purpose-oriented fine-tuning of zeolite properties, as well as the related materials, discussing the specific characterization methods and the applications in close relation to each individual preparation approach. The result is a self-contained treatment of the different classes of mesoporous zeolites. With its academic insights and practical relevance this is a comprehensive handbook for researchers in the field and related areas, as well as for developers from the chemical industry.

Zeolites Karmen Margeta, Anamarija Farkaš, 2020-07-22 Natural resources, such as zeolite minerals, have an inexhaustible potential for scientific research and application. Both natural and synthetic zeolites have application in many researched areas including water and soil industries, biochemistry, and medicine due to their environmental and economic acceptability, unique structure, and specific characteristics. Over three sections, this book presents a comprehensive overview of zeolites and their potential applications in science. Chapters cover such topics as the history of zeolites, their structure and properties, layered zeolites, and use of zeolites for gas storage and separation as well as in veterinary

medicine.

Zeolites: Science and Technology Fernando Ramôa Ribeiro (Chemiker.), 1984-01-31 Proceedings of the NATO Advanced Study Institute on Zeolites: Science and Technology, Alcabideche, Portugal, May 1-12, 1983

Zeolites For Cleaner Technologies Jean-pierre Gilson, Michel Guisnet, 2002-09-19 This book, written and edited by leading authorities from academia and industrial groups, covers both preventive- and curative-zeolite-based technologies in the field of chemical processing. The opening chapter presents the state of the art in zeolite science. The two subsequent chapters summarize the chemistries involved in the processes and the constraints imposed on the catalyst/adsorbent. Three major areas are covered: oil refining, petrochemicals and fine chemicals. A chapter on the (curative) use of zeolites in pollution abatement completes this overview. In the area of oil refining, a general lecture sets the scene for present and future challenges. It is followed by in-depth case studies involving FCC, hydrocracking and light naphtha isomerization. Also, an entire chapter is devoted to the often-overlooked subject of base oils. In the area of petrochemicals, the processing of aromatics and olefins is described and special attention is paid to the synergy between catalysis and separation on molecular sieves.

Layered 2D Materials and Their Allied Applications Inamuddin, Rajender Boddula, Mohd Imran Ahamed, Abdullah M. Asiri, 2020-04-27 Ever since the discovery of graphene, two-dimensional layered materials (2DLMs) have been the central tool of the materials research community. The reason behind their importance is their superlative and unique electronic, optical, physical, chemical and mechanical properties in layered form rather than in bulk form. The 2DLMs have been applied to electronics, catalysis, energy, environment, and biomedical applications. The following topics are discussed in the book's fifteen chapters: • The research status of the 2D metal-organic frameworks and the different techniques used to synthesize them. • 2D black phosphorus (BP) and its practical application in various fields. • Reviews the synthesis methods of MXenes and provides a detailed discussion of their structural characterization and physical, electrochemical and optical properties, as well as applications in catalysis, energy storage, environmental management, biomedicine, and gas sensing. • The carbon-based materials and their potential applications via the photocatalytic process using visible light irradiation. • 2D materials like graphene, TMDCs, few-layer phosphorene, MXene in layered form and their heterostructures. • The structure and applications of 2D perovskites. • The physical parameters of pristine layered materials, ZnO, transition metal dichalcogenides, and heterostructures of layered materials are discussed. • The coupling of graphitic carbon nitride with various metal sulfides and oxides to form efficient heterojunction for water purification. • The structural features, synthetic methods, properties, and different applications and properties of 2D zeolites. • The methods for synthesizing 2D hollow nanostructures are featured and their structural aspects and potential in medical and non-medical applications. • The characteristics and structural aspects of 2D layered double hydroxides (LDHs) and the various synthesis methods and role of

LDH in non-medical applications as adsorbent, sensor, catalyst, etc. • The synthesis of graphene-based 2D layered materials synthesized by using top-down and bottom-up approaches where the main emphasis is on the hot-filament thermal chemical vapor deposition (HFTCVD) method. • The different properties of 2D h-BN and borophene and the various methods being used for the synthesis of 2D h-BN, along with their growth mechanism and transfer techniques. • The physical properties and current progress of various transition metal dichalcogenides (TMDC) based on photoactive materials for photoelectrochemical (PEC) hydrogen evolution reaction. • The state-of-the-art of 2D layered materials and associated devices, such as electronic, biosensing, optoelectronic, and energy storage applications.

Modern Inorganic Synthetic Chemistry Ruren Xu, Wenqin Pang, Qisheng Huo, 2011-01-13 The contributors to this book discuss inorganic synthesis reactions, dealing with inorganic synthesis and preparative chemistry under specific conditions. They go on to describe the synthesis, preparation and assembly of six important categories of compounds with wide coverage of distinct synthetic chemistry systems

The Physical Chemistry of Materials Rolando Roque-Malherbe, 2016-04-19 In recent years, the area dealing with the physical chemistry of materials has become an emerging discipline in materials science that emphasizes the study of materials for chemical, sustainable energy, and pollution abatement applications. Written by an active researcher in this field, *Physical Chemistry of Materials: Energy and Environmental Appl*

Natural Gas Conversion V A. Parmaliana, D. Sanfilippo, F. Frusteri, A. Vaccari, F. Arena, 1998-09-17 On January 1988, the ascertained and economically accessible reserves of Natural Gas (NG) amounted to over 144,000 billion cubic meters worldwide, corresponding to 124 billion tons of oil equivalents (comparable with the liquid oil reserves, which are estimated to be 138 billion TOE). It is hypothesized that the volume of NG reserve will continue to grow at the same rate of the last decade. Forecasts on production indicate a potential increase from about 2,000 billion cubic meters in 1990 to not more than 3,300 billion cubic meters in 2010, even in a high economic development scenario. NG consumption represents only one half of oil: 1.9 billion TOE/y as compared to 3.5 of oil. Consequently, in the future gas will exceed oil as a carbon atom source. In the future the potential for getting energetic vectors or petrochemicals from NG will continue to grow. The topics covered in *Natural Gas Conversion V* reflect the large global R&D effort to look for new and economic ways of NG exploitation. These range from the direct conversion of methane and light paraffins to the indirect conversion through synthesis gas to fuels and chemicals. Particularly underlined and visible are the technologies already commercially viable. These proceedings prove that mature and technologically feasible processes for natural gas conversion are already available and that new and improved catalytic approaches are currently developing, the validity and feasibility of which will soon be documented. This is an exciting area of modern catalysis, which will certainly open novel and rewarding perspectives for the chemical, energy and petrochemical industries.

Green Chemistry and Technologies Long Zhang, Changsheng Gong, Dai Bin, 2018-09-24 The book gives a systematic introduction to green chemistry principles and technologies in inorganic and organic chemistry, polymer sciences and pharmaceutical industry. It also discusses the use of biomass and marine resources for synthesis as well as renewable energy utilization and the concepts and evaluation of recycling economy and eco-industrial parks.

Catalysis and Zeolites Jens Weitkamp, Lothar Puppe, 2013-04-17 Zeolites occur in nature and have been known for almost 250 years as aluminosilicate minerals. Examples are clinoptilolite, mordenite, offretite, ferrierite, erionite and chabazite. Today, most of these and many other zeolites are of great interest in heterogeneous catalysis, yet their naturally occurring forms are of limited value as catalysts because nature has not optimized their properties for catalytic applications and the naturally occurring zeolites almost always contain undesired impurity phases. It was only with the advent of synthetic zeolites in the period from about 1948 to 1959 (thanks to the pioneering work of R. M. Barrer and R. M. Milton) that this class of porous materials began to play a role in catalysis. A landmark event was the introduction of synthetic faujasites (zeolite X at first, zeolite Y slightly later) as catalysts in fluid catalytic cracking (FCC) of heavy petroleum distillates in 1962, one of the most important chemical processes with a worldwide capacity of the order of 500 million t/a. Compared to the previously used amorphous silica-alumina catalysts, the zeolites were not only orders of magnitude more active, which enabled drastic process engineering improvements to be made, but they also brought about a significant increase in the yield of the target product, viz. motor gasoline. With the huge FCC capacity worldwide, the added value of this yield enhancement is of the order of 10 billion US \$ per year.

Waste-Based Zeolite Mihir Kumar Purkait, Piyal Mondal, Niladri Shekhar Samanta, Pranjali Pratim Das, 2024-05-28 Waste-Based Zeolite: Synthesis and Environmental Applications focuses on the use of waste-based materials to fabricate zeolite and its subsequent use in environmental applications. It presents recent progress in zeolite synthesis using waste products such as fly ash, steel slag, biomass waste, water treatment plant sludge, and municipal waste, among others. It discusses the application of waste-based zeolite for environmental applications such as biodiesel production, as well as considering techniques for recovering spent zeolite. Many industries produce substantial quantities of waste material comprising various hazardous constituents that lead to pollution and threaten the environment. However, such waste can often be a rich source of precursor ingredients for zeolite synthesis, and waste-based zeolites could potentially provide an economically and environmentally viable alternative to commercially available zeolites. This book illuminates this fascinating avenue of research. - Investigates the synthesis of waste-based zeolites and their application for environmental remediation - Covers the classification, structure, and characterization techniques of waste-based zeolites - Discusses waste-based zeolites as a potential catalyst for biofuel production - Considers the regeneration analysis and recovery of spent zeolite material

Synthetic Zeolites S. P. Zhdanov, S. S. Khvoshchev, N. N. Feoktistova, 1990

Computational Materials Chemistry L.A. Curtiss, M.S. Gordon, 2004-05-26 This volume illustrates the contributions that modern techniques in simulation and modeling can make to materials chemistry research and the level of accuracy achievable. While new developments in simulation and modeling are discussed to some extent, the major emphasis is on applications to materials chemistry including in areas of surface chemistry, solid state chemistry, polymer chemistry and nanoscience. The phenomenal improvement in both theoretical methods and computer technology have made it possible for computational chemistry to achieve a new level of chemical accuracy that is providing significant insight into the effect of chemical reactivity on the behavior of materials and helping to design new materials. Audience: Researchers, teachers, and students in chemistry and physics.

Encyclopedia of Renewable Energy, Sustainability and the Environment, 2024-08-09 Encyclopedia of Renewable Energy, Sustainability and the Environment, Four Volume Set comprehensively covers all renewable energy resources, including wind, solar, hydro, biomass, geothermal energy, and nuclear power, to name a few. In addition to covering the breadth of renewable energy resources at a fundamental level, this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental, economic, and policy standpoints. This book will serve as an ideal introduction to any renewable energy source for students, while also allowing them to learn about a topic in more depth and explore related topics, all in a single resource. Instructors, researchers, and industry professionals will also benefit from this comprehensive reference. - Covers all renewable energy technologies in one comprehensive resource - Details renewable energies' processes, from production to utilization in a single encyclopedia - Organizes topics into concise, consistently formatted chapters, perfect for readers who are new to the field - Assesses economic challenges faced to implement each type of renewable energy - Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

Advanced Powder Technology X Aloisio Nelmo Klein, Uílame Umbelino Gomes, Nério Vicente Jr., Henning Zoz, 2017-07-03 10th PTECH 2015 Selected, peer reviewed papers from the Tenth International Latin American Conference on Powder Technology (PTECH 2015), November 8-11, 2015, Rio de Janeiro, Brazil

Advanced Materials, Polymers, and Composites Omari V. Mukbaniani, Tamara Tatrishvili, Marc J. M. Abadie, 2021-11-18 This book reviews several domains of polymer science, especially new trends in polymerization synthesis, physical-chemical properties, and inorganic systems. Composites and nanocomposites are also covered in this book, emphasizing nanotechnologies and their impact on the enhancement of physical and mechanical properties of these new materials. Kinetics and simulation are discussed and also considered as promising techniques for achieving chemistry and predicting physical property goals. This book presents a selection of interdisciplinary papers on the state of knowledge of each topic under consideration through a combination of overviews and original unpublished research.

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