



ATLAS OF ZEOLITE FRAMEWORK TYPES

**Ch. Baerlocher
L.B. McCusker
D.H. Olson**

**Sixth Revised Edition
2007**

**Published on behalf of the
Structure Commission of the International Zeolite Association**

Atlas Of Zeolite Framework Types Sixth Edition

Henk van Koningsveld



Atlas Of Zeolite Framework Types Sixth Edition:

Atlas of Zeolite Framework Types Ch. Baerlocher, Lynne B. McCusker, D.H. Olson, 2007-09-12 Zeolite scientists whether they are working in synthesis catalysis characterization or application development use the Atlas of Zeolite Framework Types as a reference It describes the main features of all of the confirmed zeolite framework structures and gives references to the relevant primary structural literature Since the last edition 34 more framework types have been approved and are described in this new edition A further new feature will be that characteristic building units will be listed for each of the framework types Zeolites and their analogs are used as desiccants as water softeners as shape selective acid catalysts as molecular sieves as concentrators of radioactive isotopes as blood clotting agents and even as additives to animal feeds Recently their suitability as hosts for nanometer spacing of atomic clusters has also been demonstrated These diverse applications are a reflection of the fascinating structures of these microporous materials Each time a new zeolite framework structure is reported it is examined by the Structure Commission of the International Zeolite Association IZA SC and if it is found to be unique and to conform to the IZA SC's definition of a zeolite it is assigned a 3 letter framework type code This code is part of the official IUPAC nomenclature for microporous materials The Atlas of Zeolite Framework Types is essentially a compilation of data for each of these confirmed framework types These data include a stereo drawing showing the framework connectivity features that characterize the idealized framework structure a list of materials with this framework type information on the type material that was used to establish the framework type and stereo drawings of the pore openings of the type material Clear stereo drawings of each of the framework types Description of the features of the framework type allowing readers to quickly see if the framework type is suitable to their needs References to isotopic materials readers can quickly identify related materials and consult the appropriate reference

Atlas of Zeolite Framework Types (formerly: Atlas of Zeolite Structure Types) Ch. Baerlocher, D.H. Olson, W.M. Meier, 2001-06-06 The atlas contains an entry for each unique zeolite framework type The term zeolite framework refers to a corner sharing network of tetrahedrally coordinated atoms This 5th edition is again an updated version of the previous compilation and the number of entries has risen significantly to 133

Handbook of Hydrothermal Technology K. Byrappa, Masahiro Yoshimura, 2012-12-31 Quartz zeolites gemstones perovskite type oxides ferrite carbon allotropes complex coordinated compounds and many more all products now being produced using hydrothermal technology Handbook of Hydrothermal Technology brings together the latest techniques in this rapidly advancing field in one exceptionally useful long needed volume The handbook provides a single source for understanding how aqueous solvents or mineralizers work under temperature and pressure to dissolve and recrystallize normally insoluble materials and decompose or recycle any waste material The result as the authors show in the book is technologically the most efficient method in crystal growth materials processing and waste treatment The book gives scientists and technologists an overview of the entire subject including Evolution of the technology from geology to

widespread industrial use Descriptions of equipment used in the process and how it works Problems involved with the growth of crystals processing of technological materials environmental and safety issues Analysis of the direction of today's technology In addition readers get a close look at the hydrothermal synthesis of zeolites fluorides sulfides tungstates and molybdates as well as native elements and simple oxides Delving into the commercial production of various types the authors clarify the effects of temperature pressure solvents and various other chemical components on the hydrothermal processes Gives an overview of the evolution of Hydrothermal Technology from geology to widespread industrial use Describes the equipment used in the process and how it works Discusses problems involved with the growth of crystals processing of technological materials and environmental and safety issues

Compendium of Zeolite Framework Types Henk van Koningsveld, 2007-07-20 This compendium describes all known zeolite framework types The first part gives a pictorial description of how the framework can be built using periodic building units PerBUs The PerBUs are built from smaller units composed of a limited number of T atoms such as Si Al P Ga B Be etc by applying simple operations to the smaller unit e.g. translation rotation The zeolite framework types are analysed in terms of these component PerBUs The second part covers the larger cages cavities and/or channels in the zeolite framework together with the framework type codes FTCs in which they appear In addition two appendices are included for easy referencing Two appendices are added The first giving a survey of cages as type characteristics with their FTCs The second summarizing those channels and cavities that appear in more than one framework type The Compendium of Zeolite Framework Types contains complementary information to the data in the Atlas of Zeolite Framework Types Baerlocher et al 2001 Elsevier London The latter contains the topological symmetry unit cell data and pore dimensions How zeolites can be built using simple building units Description of the channels and cages in all zeolites known to date Survey of those channels and cages that appear in more than one zeolite

Atlas of Zeolite Framework Types. 5th Revised Edition (Formerly Atlas of Zeolite Structure Types)., 2001

Environmental Zeolites and Aqueous Media: Examples of Practical Solutions Eva Chmielewská, 2014-11-21 Environmental Zeolites and Aqueous Media Examples of practical solutions brings to light the characteristic features of ion exchange and adsorption onto natural zeolite for environmental cleanup processes particularly for water purification zeolites present past and future This ebook emphasizes on the recent development in the synthesis and manufacturing of the advanced cost effective organic and inorganic zeolite based adsorbents The scope of this ebook covers a range of topics including natural zeolite general aspects of adsorption physical characterization of fundamental ion exchange

Introduction to Zeolite Science and Practice E.M. Flanigen, J.C. Jansen, Herman van Bekkum, 1991-02-05 Zeolites and related molecular sieves have quickly become important pathways to new opportunities in the fields of oil processing and petrochemical synthesis The signs of intense activity in both industry and academia are evident burgeoning papers and patent applications increasing numbers of industrial zeolite based processes and their rapid expansion into organic chemicals manufacturing recent progress in zeolite accessibility range

matrix behaviour lattice components and satellite structures and the recognition that zeolites which are stable and can be regenerated may be incorporated into new environmentally friendly processes This volume offers a thorough up to date introduction to zeolites and such related materials as crystalline aluminium phosphates and clays Its 16 chapters each written by specialists provide detailed treatments of zeolite theory including a review of major developments zeolite laboratory and research practice and zeolite industry applications Students and individuals entering the field will find Introduction to Zeolite Science and Practice a thorough guidebook Experienced researchers will appreciate its in depth coverage of the zeolite spectrum including the latest views on zeolite structure characterization and applications

Zeolites in Sustainable Chemistry Feng-Shou Xiao,Xiangju Meng,2015-09-28 This book is devoted to the new development of zeolitic catalysts with an emphasis on new strategies for the preparation of zeolites novel techniques for their characterization and emerging applications of zeolites as catalysts for sustainable chemistry especially in the fields of energy biomass conversion and environmental protection Over the years energy and the environment have become the most important global issues while zeolitic catalysts play important roles in addressing them With individual chapters written by leading experts this book offers an essential reference work for researchers and professionals in both academia and industry Feng Shou Xiao is a Professor at the Department of Chemistry Zhejiang University China Xiangju Meng is an Associate Professor at the Department of Chemistry Zhejiang University China [International Tables for Crystallography, Volume H](#) Christopher J. Gilmore,James A. Kaduk,Henk Schenk,2019-09-16 Die Pulverdiffraktion ist in der Kristallographie die am weitesten verbreitete Methode Die Anwendungen umfassen s mtliche Bereiche der Strukturwissenschaften Dieser neue Band aus der Reihe International Tables deckt alle Aspekte des Verfahrens in ber 50 Kapiteln ab Autoren sind Experten des Fachgebiets Dieser Band umfasst sieben Teile mit folgenden Inhalten berblick ber die Prinzipien der Pulverdiffraktion Erl uterung der bei der Pulverdiffraktion eingesetzten Strahlungsquellen Instrumente und Ausr stung Einsatz unterschiedlicher Probenumgebungen und Methoden der Probenvorbereitung Information zu Methoden einschlie lich Datenverarbeitung Indexierung und Reduktion Whole Pattern Modellierung und quantitative Analyse sowie berblick ber die relevanten Datenbanken der Kristallographie Fokus auf Strukturbestimmung einschlie lich Methoden im realen und reziproken Raum sowie Methode der maximalen Entropie Strukturverfeinerung und Strukturvalidierung Erl uterung von Defekten Textur Mikrostruktur und Fasern einschlie lich Belastung und Beanspruchung Dom nengr e und D nnfilm Untersuchung der f r die Pulverdiffraktion verf gbaren Software Beschreibung der Anwendungsm glichkeiten in vielen wichtigen Bereichen Industrie und Wissenschaften einschlie lich Makromolek le Mineralien Keramik Zement Polymere Forensik Arch ologie und Pharmazeutika sowie Erkl rung von Theorie und Anwendungen Band H ist das wichtigste Referenzwerk f r alle die im Bereich Pulverdiffraktion t tig sind ob Anf nger und erfahrener Praktiker wurde f r die Praxis entwickelt ohne Sorgfalt und Genauigkeit zu vernachl ssigen Die Methode der Pulverdiffraktion wird anhand vieler Beispiele ausf hrlich behandelt Die

Beispieldaten stehen teilweise als Download zur Verfügung Environmentally Friendly Zeolites Rafael Chaves Lima, Lindiane Bieseki, Paloma Vinaches Melguizo, Sibe Berenice Castellã Pergher, 2019-05-24 This book details zeolites their structures and the parameters that influence their synthesis providing a new and actual perspective of this field Following this the authors show different processes used to synthesize zeolites using residues natural materials and other eco friendly materials such as raw powder glass clays aluminum cans diatomites rice ashes or coal ashes Finally this book gives the reader a wide range of different synthesis methods that they can be applied to several industrial processes

AI-Guided Design and Property Prediction for Zeolites and Nanoporous Materials German Sastre, Frits Daeyaert, 2023-01-30 AI Guided Design and Property Prediction for Zeolites and Nanoporous Materials A cohesive and insightful compilation of resources explaining the latest discoveries and methods in the field of nanoporous materials In Artificial Intelligence for Zeolites and Nanoporous Materials Design Synthesis and Properties Prediction a team of distinguished researchers delivers a robust compilation of the latest knowledge and most recent developments in computational chemistry synthetic chemistry and artificial intelligence as it applies to zeolites porous molecular materials covalent organic frameworks and metal organic frameworks The book presents a common language that unifies these fields of research and advances the discovery of new nanoporous materials The editors have included resources that describe strategies to synthesize new nanoporous materials construct databases of materials structure directing agents and synthesis conditions and explain computational methods to generate new materials They also offer material that discusses AI and machine learning algorithms as well as other similar approaches to the field Readers will also find a comprehensive approach to artificial intelligence applied to and written in the language of materials chemistry guiding the reader through the fundamental questions on how far computer algorithms and numerical representations can drive our search of new nanoporous materials for specific applications Designed for academic researchers and industry professionals with an interest in synthetic nanoporous materials chemistry Artificial Intelligence for Zeolites and Nanoporous Materials Design Synthesis and Properties Prediction will also earn a place in the libraries of professionals working in large energy chemical and biochemical companies with responsibilities related to the design of new nanoporous materials 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

Structure and Reactivity of Metals in Zeolite Materials Joaquín Pérez Pariente, Manuel Sánchez-Sánchez, 2018-09-12 This

volume provides the reader with the most up to date and relevant knowledge on the reactivity of metals located in zeolite materials either in framework or extra framework positions and the way it is connected with the nature of the chemical environment provided by the host Since the first report of the isomorphous substitution of titanium in the framework of zeolites giving rise to materials with unusual catalytic properties the incorporation of many other metals have been investigated with the aim for developing catalysts with improved performance in different reactions The continuous expansion of the field both in the variety of metals and zeolite structures has been accompanied by an increasing focus on the relationship between the reactivity of metal centers and their unique chemical environment The concepts covered in this volume are of interest to people working in the field of inorganic and physical chemistry catalysis and chemical engineering but also for those more interested in theoretical approaches to chemical reactivity In particular the volume is useful to postgraduate students conducting research in the design synthesis and catalytic performance of metal containing zeolites in both academic and application contexts

Zeolites and Metal-Organic Frameworks Vincent Blay, Luis Francisco

Bobadilla, Alejandro Cabrera, 2025-10-01 Zeolites are natural or synthetic materials with porous chemical structures that are valuable due to their absorptive and catalytic qualities Metal Organic Frameworks MOFs are manmade organometallic polymers with similar porous structures This introductory book with contributions from top class researchers from all around the world examines these materials and explains the different synthetic routes available to prepare zeolites and MOFs The book also highlights how the substances are similar yet different and how they are used by science and industry in situations ranging from fueling cars to producing drugs

Introduction to Zeolite Science and Practice P.A. Jacobs, E.M.

Flanigen, J.C. Jansen, Herman van Bekkum, 2001-06-26 In view of the substantial progress made in the last decade in the fields of zeolites and related materials it was decided to go for an extended 2nd Edition of Introduction to Zeolite Science and Practice Unfortunately as often is the case this process took more time than expected by the Editors In the mean time some new texts on zeolites were issued Nevertheless the combination of data discussion and dedication provided by the present book is a unique coverage of the field in the opinion of the Editors In the present Edition the number of chapters rose from 16 to 22 The contributions can be divided into three categories updated chapters by the original authors updated chapters by an expanded or new team of authors and completely new chapters This 2nd Edition also contains new chapters on Zeolite based supramolecular assemblies by Dirk De Vos and Pierre Jacobs experts in this area and on The use of bulky probe molecules by Paul Kunkeler Roger Downing and one of the Editors Finally the super large pore zeolites and the fast growing area of ordered mesoporous materials are dealt with by Eelco Vogt Charlie Kresge and Jim Vartuli The latter two authors belong to the discoverers of the M41S family of mesoporous materials

Handbook of Zeolite Science and Technology

Scott M. Auerbach, Kathleen A. Carrado, Prabir K. Dutta, 2003-07-31 The Handbook of Zeolite Science and Technology offers effective analyses of salient cases selected expressly for their relevance to current and prospective research Presenting the

principal theoretical and experimental underpinnings of zeolites this international effort is at once complete and forward looking combining fundamental **The Reconstruction of Natural Zeolites** Habbib Ghobarkar,2003 Zeolites have unusual properties and as a result they are some of the most interesting inorganic materials known today In contrast to conventional nanomaterials zeolites exhibit a long term stable inner void system on the nanometer scale and their properties are almost independent from the crystal size The Reconstruction of Natural Zeolites summarizes the known properties of natural zeolites and importantly shows how they can be synthesized by simulating the conditions of natural formation Systematically a direct correlation between the glassy precursor composition and that of the zeolite product is established The zeolite crystal morphology obtained at given synthesis conditions allows direct conclusions on the conditions of formation in nature This book is a valuable practical guide and tool for solid state chemists physicists mineralogists and engineers It will be of interest to materials scientists zeolite researchers mineralogists physical chemists bio materials scientists inorganic chemists inorganic synthesis engineers advanced students in these disciplines The Reconstruction of Natural Zeolites is written in a concise way in order to make it more accessible to the interested reader The images convey an impression of the beauty of this fascinating domain of advanced inorganic materials for high technology Ion Exchange Technology II Dr. Inamuddin,Mohammad Luqman,2012-06-05 Ion exchange Technology II Applications presents an overview of the numerous industrial applications of ion exchange materials In particular this volume focuses on the use of ion exchange materials in various fields including chemical and biochemical separations water purification biomedical science toxic metal recovery and concentration waste water treatment catalysis alcohol beverage sugar and milk technologies pharmaceuticals industry and metallurgical industries This title is a highly valuable source not only to postgraduate students and researchers but also to industrial R D specialists in chemistry chemical and biochemical technology as well as to engineers and industrialists

Zeolites and Their Applications Mohamed Nageeb Rashed,P.N. Palanisamy,2018-06-27 Zeolites are hydrated aluminosilicate minerals of the family of microporous solids According to the US Geological Survey there are about 40 naturally occurring zeolites forming in sedimentary and volcanic rocks The most commonly mined forms include clinoptilolite chabazite and mordenite There are over 200 synthetic zeolites For their abundance natural and synthetic zeolites are widely used in the industry agriculture water treatment wastewater treatment and as dietary supplements to treat diarrhea autism cancer and other This book Zeolites and Their Applications deals with several aspects of zeolite morphology synthesis and applications The book is divided into three sections and structured into nine chapters The first section includes the introductory chapter the second section explains mineralogy morphology and synthesis of zeolites and the third section focuses on the different applications of both natural and synthetic zeolites So in this book the readers will obtain updated information on mineralogy morphology synthesis and application of zeolites Scientists from different scientific fields reported in this book their findings **The Physics and Chemistry of Inorganic Clathrates** George S. Nolas,2014-08-12 The

chemistry and physics of group 14 elements such as silicon and germanium have been extensively studied largely due to their fundamental importance in the development of semiconductor electronics. In addition, crystalline open framework and nanoporous materials are attracting increasing attention for their potential technological applications. Inorganic open framework materials comprised of group 14 elements crystallizing in crystal structures known as clathrates are of particular interest. These materials correspond to expanded forms and in some cases metastable allotropes of silicon, germanium, and tin. The novel crystal structures these materials possess are intimately related to the unique physical properties they exhibit. Just as interesting as the structure and properties group 14 clathrates display is the diverse range of synthetic techniques developed to synthesize and grow single crystals of these materials. This volume will encompass many of these aspects and describe their potential for important technological applications.

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