



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

M.M.J. Treacy, J.B. Higgins



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

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 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 **Collection of Simulated XRD Powder**

Patterns for Zeolites Fifth (5th) Revised Edition M.M.J. Treacy, J.B. Higgins, 2007-11-21 This 5th edition of the Zeolite Powder Pattern Collection contains calculated patterns of 218 zeolite materials representing 174 framework topologies The almost exponential growth of new zeolite topologies reflects the continued success of zeolite synthesis researchers in producing novel materials Collection of Simulated XRD Powder Patterns for Zeolites includes materials of interest to zeolite scientists following the policies established at recent IZA conferences The materials included have corner sharing tetrahedral frameworks with no restrictions on chemical composition Covers an increase of 41 new topologies since the 4th edition in 2001 Data collected from diverse literature sources Represents an extensive compilation of data Environmental Zeolites and Aqueous Media: Examples of Practical Solutions Eva Chmielewska, 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** 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 and Jim Vartuli The latter two authors belong to the discoverers of the M41S family of mesoporous materials Environmentally Friendly Zeolites Rafael Chaves Lima,Lindiane Bieseki,Paloma Vinaches Melguizo,Sibele 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

Macrocyclic and Supramolecular Chemistry Reed M. Izatt,2016-08-01 This book commemorates the 25th anniversary of the International Izatt Christensen Award in Macrocyclic and Supramolecular Chemistry The award one of the most prestigious of small awards in chemistry recognizes excellence in the developing field of macrocyclic and supramolecular chemistry Macrocyclic and Supramolecular Chemistry How Izatt Christensen Award Winners Shaped the Field features chapters written by the award recipients who provide unique perspectives on the spectacular growth in these expanding and vibrant fields of chemistry over the past half century and on the role of these awardees in shaping this growth During this time there has been an upsurge of interest in the design synthesis and characterization of increasingly more complex macrocyclic ligands and in the application of this knowledge to understanding molecular recognition processes in host guest chemistry in ways that were scarcely envisioned decades earlier In October 2016 Professor Jean Pierre Sauvage and Sir J Fraser Stoddart author for chapter 22 Contractile and Extensile Molecular Systems Towards Molecular Muscles by Jean Pierre Sauvage Vincent Duplan and Fr d ric Niess and 20 Serendipity by Paul R McGonigal and J Fraser Stoddart respectively were awarded the Nobel Prize in Chemistry alongside fellow Wiley author Bernard Feringa for the design and synthesis of molecular machines **Atlas of Zeolite Framework Types. 5th Revised Edition (Formerly Atlas of Zeolite Structure Types).** ,2001

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