

ATLAS OF ZEOLITE FRAMEWORK TYPES

Ch. Baerlocher
W.M. Meier
D.H. Olson

Fifth Revised Edition
2001

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

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Atlas Of Zeolite Framework Types Formerly Atlas Of Zeolite Structure Types

Emilie Sanchez



Atlas Of Zeolite Framework Types Formerly Atlas Of Zeolite Structure Types:

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 *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. 5th Revised Edition (Formerly Atlas of Zeolite Structure Types).** , 2001 **Zeolites and Ordered Mesoporous Materials: Progress and Prospects** Jiri Cejka, Herman van Bekkum, 2005-10-03 Zeolites are the most frequently used industrial catalysts Their applications range from oil refining petrochemistry and the synthesis of special chemicals to environmental catalysis Rapid progress in basic research and the development of new processes has resulted in the first Federation of European Zeolite Associations FEZA School on Zeolites Zeolites and Ordered Mesoporous Materials Progress and Prospects reflects the programme of the first School on Zeolites held in Prague on August 20 21 2005 Readers gain insight into the synthesis of the ever expanding spectrum of zeolites zeotypes and ordered mesoporous materials including the use of zeolites and mesoporous materials as

catalysts in organic conversions These range from the fascinating ship in bottle systems via cascade reactions to bulk applications in oil refining and petrochemistry Contributions from world experts enhance the book with select chapters on trends in the molecular sieves field zeolite structures ion exchange properties of zeolites advanced applications with unique technologies and opportunities and a chapter on natural zeolites Contains contributions from world experts in the field Includes an account of the frontier topic of high throughput techniques Reviews the application of quantum chemical methods to zeolite science to show the necessity of combining experimental and theoretical approaches 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 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

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 ofsalient 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 *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 *Collection of Simulated XRD Powder Patterns for Zeolites* M.M.J. Treacy,J.B. Higgins,2001-06-12 Collection of Simulated XRD Powder Patterns for Zeolites serves as a source of reference patterns for pure zeolite phases The data will be helpful in establishing the structural

purity of experimental phases and in indexing their diffraction patterns The information will also aid in the determination of changes in the lattice parameters with changing composition assessing preferred orientation effects background evaluation and line broadening Also included are diffraction patterns of several common dense silicate phases to facilitate their detection in mixed phase synthesis

Zeolites and Related Materials: Trends Targets and Challenges(SET) Antoine Gedeon,Pascale Massiani,Florence Babonneau,2008-08-19 The present book Zeolites and Related Materials Trends Targets and Challenges reports the communications that have been presented at the 4th International FEZA Federation of European Zeolite Associations Conference in Paris September 3 6 2008 It gives an excellent overview of the present state of the art of ordered nanoporous solids including zeolites as well as synthetic layered materials clays nanosized molecular sieves ordered mesoporous solids metal organic framework compounds MOFs carbons etc with emphasis on the synthesis comprehensive characterization and advanced applications The significant research activities in this domain are due to the outstanding properties of those nanoporous materials that concentrate the collaborative efforts of researchers from material science chemistry physical chemistry and physics The understanding and development of the unique properties of porous materials relies on a unique blend of multidisciplinary knowledge covering material science with the implication of organic and colloid chemistry to prepare micro and mesoporous materials surface and adsorption sciences sustained by theory and modelling to understand the peculiar behaviour of molecules in confined systems special branches of catalysis physics chemical engineering and life science to design novel applications This book summarizes the developments in the area of nanoporous solids at the dawn of the 21st century useful for both students young researchers entering the field of nanoporous materials as well as for senior scientists Also summarizes the new family of porous compounds e g MOF s and ordered porous carbon The present state of the art and prospects of nanoporous solids for advanced applications is discussed

Atlas of Zeolite Structure Types Walter Meier,David Olson,1992-01-01

Catalysis and Adsorption by Zeolites G. Öhlmann,H. Pfeifer,R. Fricke,1991-06-19 The proceedings of ZEOCAT 90 reflect the wide ranging aspects of the rapidly expanding field of zeolite science and technology The invited plenary lectures given by eminent zeolite scientists summarize current knowledge and address topical areas of zeolite research including a contribution on the use of zeolites as membranes The field of investigations described in the submitted articles in this volume covers a wide area of problems ranging from the influence of the synthesis process on the properties to questions of acidity adsorption diffusion and catalysis Of special interest are the newly developed applications of zeolites in the synthesis of fine chemicals the use of zeolites for sensors and solid electrolytes and the sophisticated zeolite based separation processes

Encyclopedia of Inorganic Chemistry: T-Z R. Bruce King,2005

Inorganic Chemistry Gary L. Miessler,Donald Arthur Tarr,2004 For one two semester junior senior level courses in Inorganic Chemistry This highly readable text provides the essentials of Inorganic Chemistry at a level that is neither too high for novice students nor too low for advanced students It has been praised for its coverage of theoretical

inorganic chemistry It discusses molecular symmetry earlier than other texts and builds on this foundation in later chapters Plenty of supporting book references encourage instructors and students to further explore topics of interest **Science of**

Crystal Structures Istvan Hargittai, Balazs Hargittai, 2015-09-09 A volume which includes entries on quasicrystals icosahedral packing other packing considerations extended structures data treatment and data mining is presented by luminaries from the crystallography community Several of the contributions are from the schools of such trend setting crystallographers as J Desmond Bernal and Aleksandr I Kitaigorodskii Internationally renowned scientists contributed such as Tom L Blundell Johann Jacob Burckhardt John L Finney Jenny P Glusker Nobel laureate Herbert A Hauptman the 2014 Ewald Prize winner A Janner Aminoff Prize winner Isabella Karle Nobel laureate Jerome Karle Buckley Prize winner Alan L Mackay Ewald Prize winner David Sayre Vladimir Shevchenko and J Fraser Stoddart A few frontier topics dominate the selected material Pioneers of the direct methods describe the phase problem and how it was solved including the mathematical approach and the utilization of experience with gas phase electron diffraction The reviews by Herbert Hauptman Jerome and Isabella Karle and David Sayre reach to the present day in assessing the possibilities of X ray crystallography Another focus topic is the investigation of systems that are outside the so called classical system of crystals They include quasicrystals imperfect and very small crystals supramolecular species crystal structures without lattice clusters nanomaterials among others Application of synchrotron and cryoprotection techniques the free electron laser flash technique and others are mentioned in addition to X ray crystallography The relationship between structural and materials properties are examined and uncovered The broader topics of the so called generalized crystallography include polymers clusters polydisperse chain assemblies and giant icosahedral fullerenes There are some key contributions related to the structural investigation of biological macromolecules **Zeolites in Industrial Separation and Catalysis** Santi

Kulprathipanja, 2010-01-26 This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes The first part of the book discusses the history and chemistry of zeolites while the second section focuses on separation processes The third and final section treats zeolites in the field of catalysis The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent a membrane and as a catalyst while also discussing their impact within the industry *The Selected Papers of Sir John Meurig Thomas* John Meurig Thomas, 2017-07-07 John Meurig Thomas is a former Director of the Royal Institution of Great Britain a former head of the Department of Physical Chemistry and former Master of Peterhouse University of Cambridge A world renowned solid state materials and surface chemist he has been an educator researcher academic administrator author of university texts government advisor industrial consultant and trustee of national museums in a career

spanning over 50 years Recipient of many international awards including the Linus Pauling Willard Gibbs Kapitza Natta Stokes Davy and Faraday medals he is also a fellow of the Royal Society 1977 of the American Philosophical Society 1993 and of ten other national academies He is best known for his fundamental work in heterogeneous catalysis chemical electron microscopy and in the popularisation of science for which in conjunction with his services to chemistry he was knighted 1991 He is also founding editor of three scientific journals and editor or co editor of some 30 monographs A new mineral meurigite was named in his honour 1995 Most recently in 2016 Sir John was awarded the Royal Medal for Physical Sciences by the Royal Society Drawn from over 1200 publications this volume contains a summarised account of Sir John s work with a selection of the new techniques pioneered and discovered by him and his colleagues Also included are popular science articles and various illustrations of techniques which have enhanced our knowledge of many facets of condensed matter science Contributions from 80 peers colleagues former co workers students and friends worldwide who have interacted with or been influenced by him are a tribute to the professional and personal life of Sir John making this book a unique reflective summary of the work of one of the greatest achievers in modern British physical science

Trends in Chemistry of Materials Chintamani Nagesa Ramachandra Rao,2008 In this collection the author has compiled a set of his papers representing some of the highlights of materials chemistry It features a section on oxidic materials which includes high temperature superconductivity colossal magnetoresistance electronic phase separation and multiferroics The author has also included novel methods for making gallium nitride boron nitride and such materials by using precursors and the urea decomposition route Moreover there is a section dealing with open framework and hybrid materials of which the latter has a great future since one can make use of the rigidity of inorganic structures and the functionality and flexibility of the organic residues to design materials with novel properties

Silica Peter J. Heaney, Charles T. Prewitt, Gerald V. Gibbs, 2018-12-17 Volume 29 of Reviews in Mineralogy provides an updated silica review which focuses on the most recent developments This book describes the crystal structures and phase transitions of silica and its stuffed derivatives bridges the relationship between the microstructural character of real silica minerals and the behavior of silica in the geological environment covers Quantum mechanical considerations of the Si O bond shows how calculations based upon first principles theory can explain and predict silica transitions at high temperatures and pressures covers spectroscopic analyses of silica and how they reveal vibrational behaviors in response to variations in temperature pressure and composition and finally details the uses of silica for industrial purposes

Atlas of Zeolite Structure Types Walter M. Meier, D. H. Olson, 1978 *Micro- and Mesoporous Mineral Phases* Giovanni Ferraris, Stefano Merlino, 2018-12-17 Volume 57 of Reviews in Mineralogy and Geochemistry highlights the present knowledge on micro and mesoporous mineral phases with focus on their crystal chemical aspects occurrence and porous activity in nature and experiments As zeolites are the matter of numerous ad hoc meetings and books including two volumes in this series they do not specifically appear in the present volume The phases of the sodalite and

cancrinite davyne groups which mineralogists consider distinct from zeolites are instead considered in the order chapter 7 by W Depmeier and part of chapter 8 by E Bonaccorsi and S Merlino respectively

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