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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.

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Atlas of Zeolite Framework Types - 6th Edition
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 5 th edition is again an updated version of the previous compilation, and the number of entries has risen significantly to 133.

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Framework chemical composition included for all materials in the database: 26-Jun-19: First NMR added: 29 Si MAS NMR spectra of some pure silica zeolites have been added to the database. 26-Apr-19: New framework type codes approved: AVE, SOV, PWN: 20-Aug-18: New framework type codes approved: MRT, *PCS, POR, PWO, PWW, *UOE: 15-May-18

Database of Zeolite Structures
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History of the Atlas of Zeolite Framework Types Change of name for the Atlas recommended by IUPAC in 2001 Old : Atlas of Zeolite Structure Types New: Atlas of Zeolite Framework Types - Structure: Implies both, the framework and extra-framework constituents. - Framework: Corner-sharing network of tetrahedreally coordinated atoms. Describing Frameworks

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 framwork 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 isotypic materials, readers can quickly identify related materials and consult the appropriate reference

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 operation(s) 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

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An updated and expanded version of the 2nd edition (1988) which comprised 64 entries, the 3rd edition contains 85 entries--based on information available to the authors by the end of 1991. Published on behalf of the Structure Commission of the International Zeolite Association. Annotation copyright by Book News, Inc., Portland, OR

Zeolite synthesis is an active field of research. As long as this continues, new phases will be discovered and new techniques for preparing existing phases will appear. This edition of Verified Synthesis of Zeolitic Materials contains all the recipes from the first edition plus 24 new recipes. Five new introductory articles have been included plus those from the first edition, some of which have been substantially revised. The XRD patterns have been recorded using different instrument settings from those in the first edition and are intended to conform to typical X-ray diffraction practice. In most cases, only the XRD pattern for the productas synthesised is printed here. The exceptions are those phases which show marked changes in the XRD pattern upon calcination.

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