



1. Periodic Building Unit – 2. Connection mode – 3. Projections of the unit cell content
4. Channels and/or cages – 5. Supplementary information

1. Periodic Building Unit:

Cubic ANA can be built using distorted 6-ring chairs (one in bold in Figure 1). A one-dimensional Periodic Building Unit (PerBU) is formed when 6-rings, related by a 2-fold rotation axis parallel to a , are connected through (distorted) 4-rings into chains along b as shown in Figure 1.

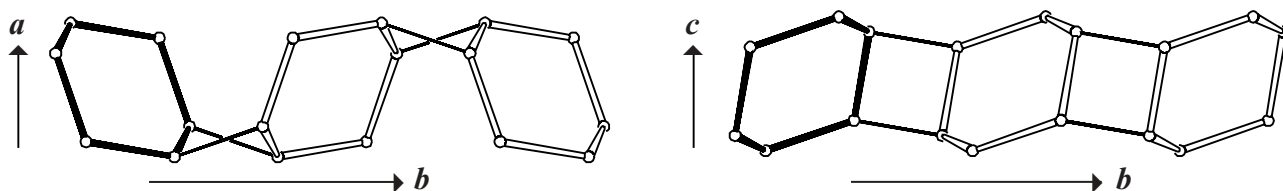


Figure 1. PerBU in ANA (chain of 6-rings) viewed along c (left), and along a (right).

2. Connection mode:

Chains are connected along $[100]$ and along $[001]$ through (distorted) 4-rings to form the ba and bc layers depicted in Figure 2. Neighboring chains in the ba layer are related by a 2-fold screw axis parallel to $[010]$. Neighboring chains in the bc layer are related by a 2-fold axis parallel to $[010]$.

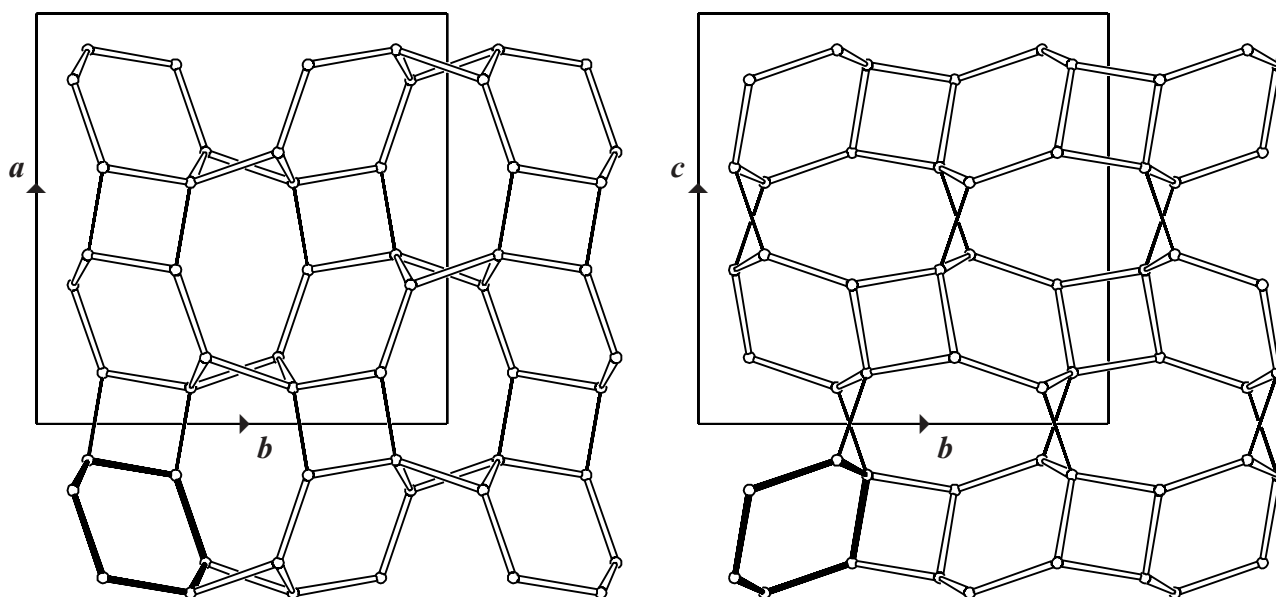


Figure 2. Connection modes in ANA. PerBUs are connected into ab layers (left) and into bc layers (right) through (distorted) 4-rings.

3. Projections of the unit cell content:

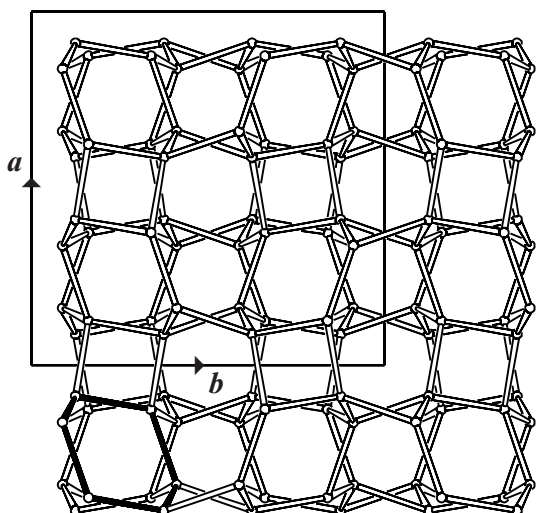


Figure 3. Cell content seen along c . (all three projections are the same)

4. Channels and/or cages:

Cavities in ANA, consisting of three distorted 8-rings and two 6-rings, are connected into "double" cavities that form irregular channels as illustrated in Figure 4. The **pore descriptor** is added.

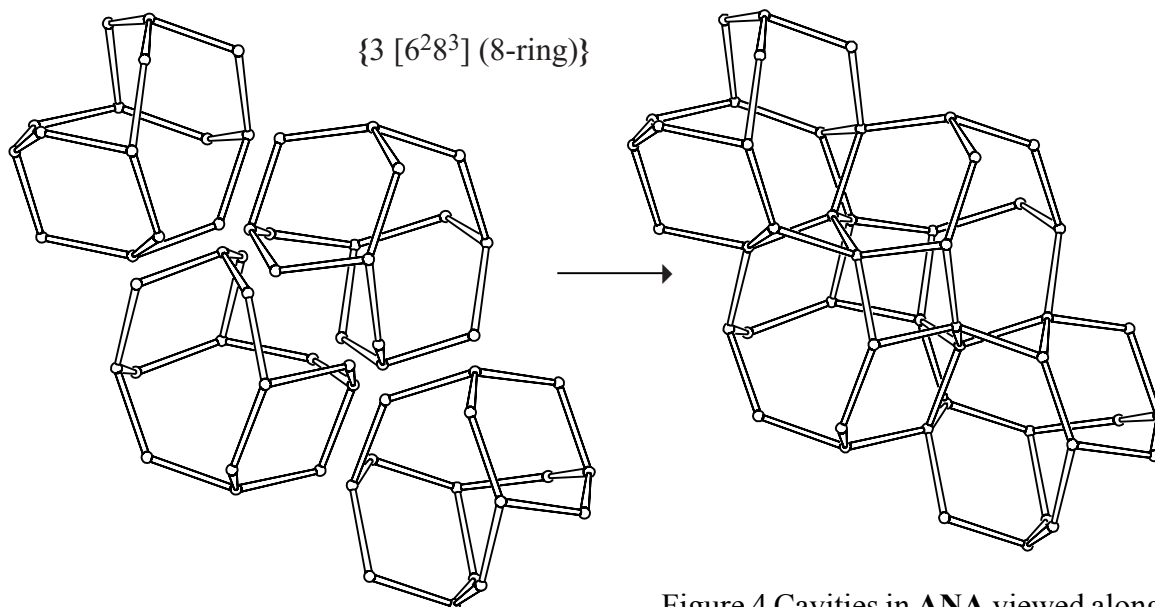


Figure 4 Cavities in ANA viewed along c .

5. Supplementary information:

Other miscellaneous framework types

In the **INTRO** pages links are given to detailed descriptions of these framework types (choose: **Miscellaneous**). There is also a link to a summary of the Periodic Building Units used in the building schemes of these framework types (choose: **Appendix; Figure 12**).