

CHEM0031: Inorganic Rings, Chains and Clusters

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1. Gillespie, R.J.: Nyholm Memorial Lecture. Ring, cage, and cluster compounds of the main group elements. *Chemical Society Reviews*. 8, (1979).
<https://doi.org/10.1039/cs9790800315>.

 2. Woollins, J.D.: Non-metal rings, cages, and clusters. Wiley, Chichester (1988).

 3. Greenwood, N.N., Earnshaw, A.: Chemistry of the elements. Butterworth-Heinemann, Oxford (1997).

 4. West, R., Stone, F.G.A.: Multiply bonded main group metals and metalloids. Academic Press, San Diego (1996).

 5. Atkins, P.W.: Shriver & Atkins' inorganic chemistry. Oxford University Press, Oxford (2010).

 6. Huheey, J.E., Keiter, E.A., Keiter, R.L.: Inorganic chemistry: principles of structure and

reactivity. HarperCollins College Publishers, New York, NY (1993).

7.

Choy, K.: Chemical vapour deposition of coatings. *Progress in Materials Science*. 48, 57–170 (2003). [https://doi.org/10.1016/S0079-6425\(01\)00009-3](https://doi.org/10.1016/S0079-6425(01)00009-3).

8.

Cotton, F.A.: Advanced inorganic chemistry. Wiley, New York (1999).

9.

Greenwood, N.N., Earnshaw, A.: Chemistry of the elements. Butterworth-Heinemann, Oxford (1997).

10.

Housecroft, C.E.: Metal-metal bonded carbonyl dimers and clusters. Oxford University Press, Oxford (1996).

11.

Mingos, D.M.P., Wales, D.J.: Introduction to cluster chemistry. Prentice Hall, Englewood Cliffs, N.J. (1990).

12.

Housecroft, C.E.: Boranes and metallaboranes: structure, bonding and reactivity. Ellis Horwood, Hemel Hempstead (1994).

13.

Shriver, D.F., Kaesz, H.D., Adams, R.D.: The Chemistry of metal cluster complexes. VCH, Cambridge (1990).

14.

Kauzlarich, S.M.: Chemistry, structure, and bonding of Zintl phases and ions. VCH, New York (1996).

15.

Falenty, A., Hansen, T.C., Kuhs, W.F.: Formation and properties of ice XVI obtained by emptying a type sII clathrate hydrate. *Nature*. 516, 231–233 (2014).
<https://doi.org/10.1038/nature14014>.

16.

Inokuma, Y., Yoshioka, S., Ariyoshi, J., Arai, T., Hitora, Y., Takada, K., Matsunaga, S., Rissanen, K., Fujita, M.: X-ray analysis on the nanogram to microgram scale using porous complexes. *Nature*. 495, 461–466 (2013). <https://doi.org/10.1038/nature11990>.

17.

Perez, C., Muckle, M.T., Zaleski, D.P., Seifert, N.A., Temelso, B., Shields, G.C., Kisiel, Z., Pate, B.H.: Structures of Cage, Prism, and Book Isomers of Water Hexamer from Broadband Rotational Spectroscopy. *Science*. 336, 897–901 (2012).
<https://doi.org/10.1126/science.1220574>.

18.

Kawasumi, M.: The discovery of polymer-clay hybrids. *Journal of Polymer Science Part A: Polymer Chemistry*. 42, 819–824 (2004). <https://doi.org/10.1002/pola.10961>.

19.

Ozin, G.A., Arsenault, A.C., Cademartiri, L.: Nanochemistry: a chemical approach to nanomaterials. Royal Society of Chemistry, Cambridge.

20.

Huheey, J.E., Keiter, E.A., Keiter, R.L.: Inorganic chemistry: principles of structure and reactivity. HarperCollins College Publishers, New York, NY (1993).

28.

Huber, D.: Synthesis, Properties, and Applications of Iron Nanoparticles. *Small*. 1, 482–501 (2005). <https://doi.org/10.1002/smll.200500006>.

29.

Thanh, N.T.K., Green, L.A.W.: Functionalisation of nanoparticles for biomedical applications. *Nano Today*. 5, 213–230 (2010).
<https://doi.org/10.1016/j.nantod.2010.05.003>.

30.

Bar-Sadan, M., Kaplan-Ashiri, I., Tenne, R.: Inorganic fullerenes and nanotubes: Wealth of materials and morphologies. *The European Physical Journal Special Topics*. 149, 71–101 (2007). <https://doi.org/10.1140/epjst/e2007-00245-1>.

31.

Smith, A.M., Nie, S.: Semiconductor Nanocrystals: Structure, Properties, and Band Gap Engineering. *Accounts of Chemical Research*. 43, 190–200 (2010).

32.

Tenne, R.: Inorganic nanotubes and fullerene-like nanoparticles. *Nature Nanotechnology*. 1, 103–111 (2006). <https://doi.org/10.1038/nnano.2006.62>.