

CHEM3141: Inorganic Rings, Chains and Clusters

[View Online](#)

1.

Gillespie RJ. Nyholm Memorial Lecture. Ring, cage, and cluster compounds of the main group elements. Chemical Society Reviews. 1979;8(3).

2.

Woollins JD. Non-metal rings, cages, and clusters. Chichester: Wiley; 1988.

3.

Greenwood NN, Earnshaw A. Chemistry of the elements. 2nd ed. Oxford: Butterworth-Heinemann; 1997.

4.

West R, Stone FGA. Multiply bonded main group metals and metalloids. San Diego: Academic Press; 1996.

5.

Atkins PW. Shriver & Atkins' inorganic chemistry. 5th ed. Oxford: Oxford University Press; 2010.

6.

Huheey JE, Keiter EA, Keiter RL. Inorganic chemistry: principles of structure and reactivity. 4th ed. New York, NY: HarperCollins College Publishers; 1993.

7.

Choy K. Chemical vapour deposition of coatings. *Progress in Materials Science*. 2003;48(2):57–170.

8.

Cotton FA. *Advanced inorganic chemistry*. 6th ed. New York: Wiley; 1999.

9.

Greenwood NN, Earnshaw A. *Chemistry of the elements*. 2nd ed. Oxford: Butterworth-Heinemann; 1997.

10.

Housecroft CE. *Metal-metal bonded carbonyl dimers and clusters*. Oxford: Oxford University Press; 1996.

11.

Mingos DMP, Wales DJ. *Introduction to cluster chemistry*. Englewood Cliffs, N.J.: Prentice Hall; 1990.

12.

Housecroft CE. *Boranes and metallaboranes: structure, bonding and reactivity*. 2nd ed. Hemel Hempstead: Ellis Horwood; 1994.

13.

Shriver DF, Kaesz HD, Adams RD. *The Chemistry of metal cluster complexes*. Cambridge: VCH; 1990.

14.

Kauzlarich SM. Chemistry, structure, and bonding of Zintl phases and ions. New York: VCH; 1996.

15.

Falenty A, Hansen TC, Kuhs WF. Formation and properties of ice XVI obtained by emptying a type sII clathrate hydrate. *Nature*. 2014 Dec 10;516(7530):231–233.

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*. 2013 Mar 27;495(7442):461–466.

17.

Perez C, Muckle MT, Zaleski DP, Seifert NA, Temelso B, Shields GC, Kisiel Z, Pate BH. Structures of Cage, Prism, and Book Isomers of Water Hexamer from Broadband Rotational Spectroscopy. *Science*. 2012 May 18;336(6083):897–901.

18.

Kawasumi M. The discovery of polymer-clay hybrids. *Journal of Polymer Science Part A: Polymer Chemistry*. 2004 Feb 15;42(4):819–824.

19.

Ozin GA, Arsenault AC, Cademartiri L. *Nanochemistry: a chemical approach to nanomaterials* [Internet]. 2nd ed. Cambridge: Royal Society of Chemistry; Available from: <https://app.knovel.com/hotlink/toc/id:kpNACANE01/nanochemistry-a-chemical?kpromoter=marc>

20.

Huheey JE, Keiter EA, Keiter RL. *Inorganic chemistry: principles of structure and reactivity*. 4th ed. New York, NY: HarperCollins College Publishers; 1993.

21.

Rao CNR, Müller A, Cheetham AK. The chemistry of nanomaterials: synthesis, properties and applications. Weinheim: Wiley-VCH; 2004.

22.

De M, Ghosh PS, Rotello VM. Applications of Nanoparticles in Biology. *Advanced Materials*. 2008 Nov 18;20(22):4225–4241.

23.

Wagner V, Dullaart A, Bock AK, Zweck A. The emerging nanomedicine landscape. *Nature Biotechnology*. 2006 Oct;24(10):1211–1217.

24.

Qu L, Dai L, Stone M, Xia Z, Wang ZL. Carbon Nanotube Arrays with Strong Shear Binding-On and Easy Normal Lifting-Off. *Science*. 2008 Oct 10;322(5899):238–242.

25.

Qin Y, Wang X, Wang ZL. Microfibre–nanowire hybrid structure for energy scavenging. *Nature*. 2009 Jan 15;457(7227):340–340.

26.

Feher FJ, Budzichowski TA. Silasesquioxanes as ligands in inorganic and organometallic chemistry. *Polyhedron*. 1995 Oct;14(22):3239–3253.

27.

Ormerod RM. Solid oxide fuel cells. *Chemical Society Reviews*. 2003 Dec 18;32(1):17–28.

28.

Huber D. Synthesis, Properties, and Applications of Iron Nanoparticles. *Small*. 2005 May;1(5):482–501.

29.

Thanh NTK, Green LAW. Functionalisation of nanoparticles for biomedical applications. *Nano Today*. 2010 Jun;5(3):213–230.

30.

Bar-Sadan M, Kaplan-Ashiri I, Tenne R. Inorganic fullerenes and nanotubes: Wealth of materials and morphologies. *The European Physical Journal Special Topics*. 2007 Oct;149(1):71–101.

31.

Smith AM, Nie S. Semiconductor Nanocrystals: Structure, Properties, and Band Gap Engineering. *Accounts of Chemical Research* [Internet]. 2010 Feb 16;43(2):190–200. Available from: <https://contentstore.cla.co.uk/secure/link?id=29f27d07-800d-f011-81a2-842121568115>

32.

Tenne R. Inorganic nanotubes and fullerene-like nanoparticles. *Nature Nanotechnology*. 2006 Nov;1(2):103–111.