

CHEM3141: Inorganic Rings, Chains and Clusters

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

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

Choy, K. (2003). Chemical vapour deposition of coatings. Progress in Materials Science, 48 (2), 57–170. [https://doi.org/10.1016/S0079-6425\(01\)00009-3](https://doi.org/10.1016/S0079-6425(01)00009-3)

Cotton, F. A. (1999). Advanced inorganic chemistry (6th ed). Wiley.

De, M., Ghosh, P. S., & Rotello, V. M. (2008). Applications of Nanoparticles in Biology. Advanced Materials, 20(22), 4225–4241. <https://doi.org/10.1002/adma.200703183>

Falenty, A., Hansen, T. C., & Kuhs, W. F. (2014). Formation and properties of ice XVI obtained by emptying a type sII clathrate hydrate. Nature, 516(7530), 231–233. <https://doi.org/10.1038/nature14014>

Feher, F. J., & Budzichowski, T. A. (1995). Silasesquioxanes as ligands in inorganic and organometallic chemistry. Polyhedron, 14(22), 3239–3253. [https://doi.org/10.1016/0277-5387\(95\)85009-0](https://doi.org/10.1016/0277-5387(95)85009-0)

Gillespie, R. J. (1979). Nyholm Memorial Lecture. Ring, cage, and cluster compounds of the main group elements. Chemical Society Reviews, 8(3). <https://doi.org/10.1039/cs9790800315>

Greenwood, N. N., & Earnshaw, A. (1997a). Chemistry of the elements (2nd ed). Butterworth-Heinemann.

Greenwood, N. N., & Earnshaw, A. (1997b). Chemistry of the elements (2nd ed). Butterworth-Heinemann.

Housecroft, C. E. (1994). Boranes and metallaboranes: structure, bonding and reactivity: Vol. Ellis Horwood series in inorganic chemistry (2nd ed). Ellis Horwood.

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

Huber, D. (2005). Synthesis, Properties, and Applications of Iron Nanoparticles. Small, 1(5),

482–501. <https://doi.org/10.1002/sml.200500006>

Huheey, J. E., Keiter, E. A., & Keiter, R. L. (1993a). *Inorganic chemistry: principles of structure and reactivity* (4th ed). HarperCollins College Publishers.

Huheey, J. E., Keiter, E. A., & Keiter, R. L. (1993b). *Inorganic chemistry: principles of structure and reactivity* (4th ed). HarperCollins College Publishers.

Inokuma, Y., Yoshioka, S., Ariyoshi, J., Arai, T., Hitora, Y., Takada, K., Matsunaga, S., Rissanen, K., & Fujita, M. (2013). X-ray analysis on the nanogram to microgram scale using porous complexes. *Nature*, 495(7442), 461–466. <https://doi.org/10.1038/nature11990>

Kauzlarich, S. M. (1996). *Chemistry, structure, and bonding of Zintl phases and ions: Vol. The chemistry of metal clusters*. VCH.

Kawasumi, M. (2004). The discovery of polymer-clay hybrids. *Journal of Polymer Science Part A: Polymer Chemistry*, 42(4), 819–824. <https://doi.org/10.1002/pola.10961>

Mingos, D. M. P., & Wales, D. J. (1990). *Introduction to cluster chemistry: Vol. Prentice Hall advanced reference series*. Prentice Hall.

Ormerod, R. M. (2003). Solid oxide fuel cells. *Chemical Society Reviews*, 32(1), 17–28. <https://doi.org/10.1039/b105764m>

Ozin, G. A., Arsenault, A. C., & Cademartiri, L. (n.d.). *Nanochemistry: a chemical approach to nanomaterials* (2nd ed). Royal Society of Chemistry.
<https://app.knovel.com/hotlink/toc/id:kpNACANE01/nanochemistry-a-chemical?kpromoter=marc>

Perez, C., Muckle, M. T., Zaleski, D. P., Seifert, N. A., Temelso, B., Shields, G. C., Kisiel, Z., & Pate, B. H. (2012). Structures of Cage, Prism, and Book Isomers of Water Hexamer from Broadband Rotational Spectroscopy. *Science*, 336(6083), 897–901. <https://doi.org/10.1126/science.1220574>

Qin, Y., Wang, X., & Wang, Z. L. (2009). Microfibre–nanowire hybrid structure for energy scavenging. *Nature*, 457(7227), 340–340. <https://doi.org/10.1038/nature07628>

Qu, L., Dai, L., Stone, M., Xia, Z., & Wang, Z. L. (2008). Carbon Nanotube Arrays with Strong Shear Binding-On and Easy Normal Lifting-Off. *Science*, 322(5899), 238–242. <https://doi.org/10.1126/science.1159503>

Rao, C. N. R., Müller, A., & Cheetham, A. K. (2004). *The chemistry of nanomaterials: synthesis, properties and applications*. Wiley-VCH.

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

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

Tenne, R. (2006). Inorganic nanotubes and fullerene-like nanoparticles. *Nature Nanotechnology*, 1(2), 103–111. <https://doi.org/10.1038/nnano.2006.62>

Thanh, N. T. K., & Green, L. A. W. (2010). Functionalisation of nanoparticles for biomedical applications. *Nano Today*, 5(3), 213–230. <https://doi.org/10.1016/j.nantod.2010.05.003>

Wagner, V., Dullaart, A., Bock, A.-K., & Zweck, A. (2006). The emerging nanomedicine landscape. *Nature Biotechnology*, 24(10), 1211–1217. <https://doi.org/10.1038/nbt1006-1211>

West, R., & Stone, F. G. A. (1996). Multiply bonded main group metals and metalloids: Vol. *Advances in organometallic chemistry*. Academic Press.

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