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Atkins, P. W. 2010. Shriver & Atkins' Inorganic Chemistry. 5th ed. Oxford: Oxford University Press.

Bar-Sadan, M., I. Kaplan-Ashiri, and R. Tenne. 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.

Cotton, F. Albert. 1999. Advanced Inorganic Chemistry. 6th ed. New York: Wiley.

De, Mrinmoy, Partha S. Ghosh, and Vincent M. Rotello. 2008. 'Applications of Nanoparticles in Biology'. Advanced Materials 20 (22): 4225–41. https://doi.org/10.1002/adma.200703183.

Falenty, Andrzej, Thomas C. Hansen, and Werner F. Kuhs. 2014. 'Formation and Properties of Ice XVI Obtained by Emptying a Type sII Clathrate Hydrate'. Nature 516 (7530): 231–33. https://doi.org/10.1038/nature14014.

Feher, Frank J., and Theodore A. Budzichowski. 1995. 'Silasesquioxanes as Ligands in Inorganic and Organometallic Chemistry'. Polyhedron 14 (22): 3239–53. 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., and Alan Earnshaw. 1997a. Chemistry of the Elements. 2nd ed. Oxford: Butterworth-Heinemann.

———. 1997b. Chemistry of the Elements. 2nd ed. Oxford: Butterworth-Heinemann.

Housecroft, Catherine E. 1994. Boranes and Metallaboranes: Structure, Bonding and Reactivity. 2nd ed. Vol. Ellis Horwood series in inorganic chemistry. Hemel Hempstead: Ellis Horwood.

———. 1996. Metal-Metal Bonded Carbonyl Dimers and Clusters. Vol. Oxford chemistry primers. Oxford: Oxford University Press.

Huber, Dale?L. 2005. ‘Synthesis, Properties, and Applications of Iron Nanoparticles’. Small 1 (5): 482–501. https://doi.org/10.1002/smll.200500006.

Huheey, James E., Ellen A. Keiter, and Richard L. Keiter. 1993a. Inorganic Chemistry: Principles of Structure and Reactivity. 4th ed. New York, NY: HarperCollins College Publishers.

———. 1993b. Inorganic Chemistry: Principles of Structure and Reactivity. 4th ed. New York, NY: HarperCollins College Publishers.

Inokuma, Yasuhide, Shota Yoshioka, Junko Ariyoshi, Tatsuhiko Arai, Yuki Hitora, Kentaro Takada, Shigeki Matsunaga, Kari Rissanen, and Makoto Fujita. 2013. ‘X-Ray Analysis on the Nanogram to Microgram Scale Using Porous Complexes’. Nature 495 (7442): 461–66. https://doi.org/10.1038/nature11990.

Kauzlarich, Susan Mary. 1996. Chemistry, Structure, and Bonding of Zintl Phases and Ions. Vol. The chemistry of metal clusters. New York: VCH.

Kawasumi, Masaya. 2004. ‘The Discovery of Polymer-Clay Hybrids’. Journal of Polymer Science Part A: Polymer Chemistry 42 (4): 819–24. https://doi.org/10.1002/pola.10961.

Mingos, D. M. P., and David J. Wales. 1990. Introduction to Cluster Chemistry. Vol. Prentice Hall advanced reference series. Englewood Cliffs, N.J.: Prentice Hall.

Ormerod, R. Mark. 2003. ‘Solid Oxide Fuel Cells’. Chemical Society Reviews 32 (1): 17–28. https://doi.org/10.1039/b105764m.

Ozin, Geoffrey A.,
Andre
́
C. Arsenault, and Ludovico Cademartiri. n.d. Nanochemistry: A Chemical Approach to Nanomaterials. 2nd ed. Cambridge: Royal Society of Chemistry. https://app.knovel.com/hotlink/toc/id:kpNACANE01/nanochemistry-a-chemical?kpromoter=marc.

Perez, C., M. T. Muckle, D. P. Zaleski, N. A. Seifert, B. Temelso, G. C. Shields, Z. Kisiel, and B. H. Pate. 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, Yong, Xudong Wang, and Zhong Lin Wang. 2009. ‘Microfibre–Nanowire Hybrid Structure for Energy Scavenging’. Nature 457 (7227): 340–340. https://doi.org/10.1038/nature07628.

Qu, L., L. Dai, M. Stone, Z. Xia, and Z. L. Wang. 2008. ‘Carbon Nanotube Arrays with Strong Shear Binding-On and Easy Normal Lifting-Off’. Science 322 (5899): 238–42. https://doi.org/10.1126/science.1159503.

Rao, C. N. R., Achim Müller, and A. K. Cheetham. 2004. The Chemistry of Nanomaterials: Synthesis, Properties and Applications. Weinheim: Wiley-VCH.

Shriver, D. F., Herbert D. Kaesz, and Richard D. Adams. 1990. The Chemistry of Metal Cluster Complexes. Cambridge: VCH.

Smith, Andrew M., and Shuming Nie. 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): 103–11. https://doi.org/10.1038/nnano.2006.62.

Thanh, Nguyen T.K., and Luke A.W. Green. 2010. 'Functionalisation of Nanoparticles for Biomedical Applications'. Nano Today 5 (3): 213–30. https://doi.org/10.1016/j.nantod.2010.05.003.

Wagner, Volker, Anwyn Dullaart, Anne-Katrin Bock, and Axel Zweck. 2006. 'The Emerging Nanomedicine Landscape'. Nature Biotechnology 24 (10): 1211–17. https://doi.org/10.1038/nbt1006-1211.

West, Robert, and F. Gordon A. Stone. 1996. Multiply Bonded Main Group Metals and Metalloids. Vol. Advances in organometallic chemistry. San Diego: Academic Press.

Woollins, J. D. 1988. Non-Metal Rings, Cages, and Clusters. Chichester: Wiley.