Inorganic chemistry is the study of the synthesis, reactions, structures and properties of compounds of the elements. Inorganic chemistry encompasses the compounds - both molecular and extended solids - of everything else in the periodic table, and overlaps with organic chemistry in the area of organometallic chemistry, in which metals are bonded to carbon-containing ligands and molecules. Inorganic chemistry is fundamental to many practical technologies including catalysis and materials (structural, electronic, magnetic etc.), energy conversion and storage, and electronics. Inorganic compounds are also found in biological systems where they are essential to life processes.
3: Acid-Base Chemistry

4: Redox Stability and Redox Reactions

5: Coordination Chemistry and Crystal Field Theory

6: Metals and Alloys- Structure, Bonding, Electronic and Magnetic Properties
7: Metals and Alloys - Mechanical Properties

8: Ionic and Covalent Solids - Structures

9: Ionic and Covalent Solids - Energetics

10: Electronic Properties of Materials - Superconductors and Semiconductors
11: Basic Science of Nanomaterials

12: Resources for Students and Teachers

13: Metals and Alloys- Mechanical Properties

Back Matter