

An Overview of the History, Importance, Process and Production Chemistry of Platinum Group Metals: From Ore to refined metal

Outline

- Introduction to PGMs a brief history of their discovery
 - What are they and why are they important ?
 - Properties and applications (roots of concept of catalysis)
- From ore to refined metal.... A complex inorganic chemistry process.
- Production: Mining, Mineral Processing, Concentration Pyro-metallurgy, smelting, base metal extraction
- Precious Metal Refinery (PMR) individual separation and pure (99.995%) metal production
- Chemistry relevant to PGM refining
- Newer methods of refining: Solvent-extraction, Ion-exchange and Chromatography