

**Title:** Structural correlations of nonmolecular solid state energy materials

**Abstract:** A number of ternary and quaternary metal oxides, sulphides and halides are known to be useful nonmolecular solid state materials in the arena of energy. Their applications are based on their structure-dependent properties. A few selected examples of such well known compounds would be discussed from the point of view of their broad structural features and the structure-property correlations in this presentation.

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**Bio-data:** He studied in Madras Christian College and Pachaiyappa's college for BSc and MSc degrees of University of Madras, respectively. He obtained his Ph.D. degree, from the Indian Institute of Science, Bangalore, for his doctoral research in the area of synthetic and structural solid state chemistry, under the joint guidance of Professors C.N.R Rao and J. Gopalakrishnan. He carried out his post-doctoral research in Texas A & M University, USA and Max-Planck Institute for solid state research, Germany. He is recently retired from IIT Madras, after serving as a faculty in the department of chemistry for 31 years. His research interests have been synthetic and structural solid state chemistry of new quaternary metal oxides and sulphides and also metal organophosphonates.