

EDITORIAL

“Synchrotron Radiation and Cyanide-Bridged Metal Complexes”

Nowadays measurements with synchrotron radiation were employed for physical, chemical, and biological researches as tools and methods of not only determination of crystal structures with X-ray diffraction but also various spectroscopic methods to investigate electronic states with various wavelengths. Recent development of synchrotron facilities themselves and near-future hybridization with XFEL or neutron will give significant possibility.

So far many "basic" compounds have been studied in the field solid state physics as well as physical (inorganic) chemistry, because they have somewhat simple structures with high symmetry and exhibit attractive electronic properties such as optical transition, magnetism, and conductivity, and so on. In this context, cyanide-bridged metal complexes and related Prussian blue analogues have been studied widely for a long time. Therefore, now it must be important to summarize research frontier of synchrotron radiation studies focused on cyanide-bridged metal complexes.

The aims and scope of this special issue are to present up-to-date information on various aspects of compounds preparations and measurement methods for inorganic coordination compounds. We also collect articles within the scope of this special issue and specific components (X-ray diffraction, metal complexes, physical and chemical properties).

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