

Einladung zum Kolloquium

Am Mittwoch, dem **28.05.2014**, **17:00 Uhr**, spricht

Herr Professor Dr. Marius Andruh

Fakultät für Chemie
Universität Bukarest, Rumänien

zum Thema:

„Heterotrispin complexes and 3d-4f clusters. Synthetic strategies, magnetic and photophysical properties“

The combination of different spin carriers within the same molecular entity is a current strategy for obtaining molecular magnetic materials. Most of the “classical” molecule-based magnets, as well as Single Molecule Magnets and Single Chain Magnets are heterospin systems. Since several years, we are developing new synthetic approaches towards high-nuclearity clusters and coordination polymers containing three different spin carriers (3d-3d'-4f, 2p-3d-4f, 3d-4d-4f, etc.), which are based on binuclear 3d-3d' and 3d-4f tectons. Such systems are particularly interesting if the following points are addressed: (1) creation of novel solid-state architectures by linking, with divergent ligands, at least one metal ion from a node with at least one metal ion from another node; (2) emergence of new properties from the intra- and inter-node interactions. In this lecture, we focus on novel 2p-3d-4f, 3d-3d'-4f, 3d-4f-4d, and 3d-4f-5d heterotrispin complexes, as well as on their magnetic properties. A new general synthetic route leading to 3d-4f clusters is presented. The luminescence and magnetic properties of related [ZnLn] complexes are also discussed.

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Alle Interessenten sind zu diesem Vortrag herzlich eingeladen.

Die Professoren des Institutes
für Anorganische Chemie

Nähere Informationen bei Frau Professor Dr. E.Hey-Hawkins, Tel.: 36151