

EINLADUNG

zum Vortrag
von

Dr. Danny Müller

Technische Universität Wien, Institute of Applied Synthetic Chemistry
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Dissertation: Iron (II) spin crossover complexes – from chirality to multifunctionality
Betreuer: Priv.Doz. Dr. Peter Weinberger

Spin-Crossover in Fe(II) tetrazole systems: From fundamentals to applicability

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Dienstag, 11. Dezember 2018, um 17:30 Uhr

Ort: Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals

Abstract

Since its discovery in 1931 the research on the spin crossover (SCO) effect was influenced by the long-term objective of its technological application. Due to the changes in the magnetic moment, dielectric constant, color, bond-length, etc. accompanying the SCO, utilization of SCO devices in data storage or sensors was postulated.

Such a technological adoption is still confronted with multiple challenges as non-destructive read-out of the spin state, suitable host-guest materials for multifunctionality or sensor devices, as well as the preparation of SCO compounds in a suitable, technologically addressable form. The contribution will focus on challenges and progress made in Fe(II) tetrazole systems, advancing from fundamentals to applicability.

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