



Magnetic Properties at Extreme Conditions

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Message from the Guest Editor

Extreme conditions research bridges coordination chemistry, solid state chemistry, structure, magnetism, and spectroscopy and can be used to unravel new physical behavior in superconductivity, charge transport, and magnetism. Pressure can be applied to a range of molecular magnetic materials, including single-molecule magnets, spin crossover complexes, spin chains, and magnetic frameworks. Here, applied pressure provides a direct probe for investigating magnetostructural correlations, avoiding the need to examine numerous different chemical derivatives of a given material. It is rapidly becoming a convenient tool to study molecular magnetic materials, where it has been used to increase magnetic ordering temperatures, change the orientation of Jahn–Teller axes, and control magnetic anisotropy.

This Special Issue of *Magnetochemistry* aims at publishing a collection of research contributions illustrating recent achievements in all aspects of the development, study, and understanding of magnetic properties at extreme conditions.

