Special Issue

Magnetic Oxide Materials

Message from the Guest Editor

From high-temperature superconductivity to colossal magnetoresistance, magnetic oxides express a variety of extraordinary phenomena, some of which are still not well understood. This special issue will cover a wide range of transition metal oxides that express functional properties such as metal-to-insulator transitions, ferromagnetism, and half-metallicity to physical properties of more fundamental interest such as magnetic frustration, orbital ordering, and spin glasses. Furthermore, some more recent interest in the field of quantum materials has placed complex oxides that express quantum spin liquid behavior at the forefront. This Special Issue will showcase oxides with a diversity of structure types as well, from perovskites to pyrochlores to spinels to hollandites to those closely related to magnetic frustration (e.g. honeycomb lattices). While the field of magnetic oxides is quite mature with the Goodenough-Kanomori rules elucidated more than 50 years ago, there is still much to discover and understand with recent progress in novel synthetic methods and advanced characterization techniques.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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