Special Issue

Feature Papers in Inorganic Solid-State Chemistry 2025

Message from the Guest Editors

Inorganic solid-state chemistry is arguably a cornerstone of science and technology and includes the synthesis, characterization, and application of inorganic materials like ceramics, metals, and semiconductors. This field, based on crystallography, quantum mechanics, and thermodynamics, is essential for developing materials with tailored functionalities. Solid-state chemistry investigates materials with unique electronic, magnetic, and optical properties, and this has led, for example, to the discovery of high-temperature superconductors, a subfield that is still of high interest for its technological and societal significance. Similarly, and as another example, advances in magnetic materials have enormously impacted data storage devices. Suggested themes for submissions include the following:

- The synthesis and characterization of novel solid-state inorganic materials;
- Optical and electronic properties of inorganic solid-state materials (e.g., luminescence, conductivity etc.);
- Magnetic and superconducting materials and applications in data storage and quantum;
- Catalysis and reaction mechanisms;
- Environmental and energy;
- Nanomaterials and nanotechnology.

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About the Journal

Message from the Editor-in-Chief

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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