

Special Issue

Inorganic Materials for Lithium Sulfur Batteries and Electrocatalysis

Message from the Guest Editors

One of the key features of modern society development is the increasing demand for energy storage and conversion. Efficient energy storage and conversion systems based on chemical reactions are at the heart of growth in industries such as consumer electronics, transportation, smart grids, and renewable energy. Among the alternative energy systems, those based on electrocatalytic reactions are attracting a lot of attention from researchers. For example, lithium sulfur batteries which involve sulfur-related electrocatalytic reactions could deliver much higher energy densities and are a promising energy storage system. Fuel cells represent an attractive energy conversion device, converting chemical fuels directly into electricity, in which the inorganic electrocatalyst is of paramount importance. Regardless of the energy system, the microstructures of the electrocatalyst have a significant impact on the performance of the device. In this scenario, the development of inorganic materials for these systems is of utmost prominence.

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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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