

Special Issue

Ionic Thermoelectric Materials and Devices

Message from the Guest Editors

Ions as energy carriers can convert the thermal energy into electricity by harvesting the low-grade heat dissipated in the environment, which could be considered as a new and promising technology in the field of energy conversion. In contrast to the conventional semi-conductive thermoelectric materials, the higher thermo-induced voltage for the ionic thermoelectric materials is attractive in realizing the high operation voltage of sensors and/or electric devices in the small temperature differences near room temperature. A series of studies on liquid-based ionic thermoelectric conversion as well as quasi-solid state ionic thermoelectric gels should be included in this area. In this Special Issue, we will cover all relevant aspects of using ions as carriers for energy conversion, facing a broad range of readers. Submissions of original research articles and critical reviews are encouraged.

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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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