Special Issue

The State of the Art of Research on Perovskites Materials

Message from the Guest Editors

Metal halide perovskites represent an emerging and exciting class of inorganic materials which have attracted worldwide research interest and been widely implemented in energy storage and conversion. The intriguing optical and optoelectronic properties of metal halide perovskites, such as tunable electronic bandgap, large light absorption coefficient, long carrier diffusion length, and high photoluminescent quantum yield, make them attractive and promising candidates for both solar energy harvesting and next-generation light sources. Specifically, the certified power conversion efficiency of perovskite solar cells experienced an over 5-fold increase to 25.2% in the past decade. In this context, we aim to present the state of the art of research on metal halide perovskites in this Special Issue—from novel synthetic methods to fundamental property investigations and potential applications in devices, imaging, catalysis, and others—in the form of original research articles or critical reviews. We look forward to receiving your contributions.

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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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