Special Issue

Recent Advances in the Stabilization of Metal Halide Perovskites

Message from the Guest Editors

Modern PV points to metal halide perovskites as one of the most promising classes for AL materials due to their efficient solar-power conversion, low cost, and simple manufacturing process. Wide-bandgap perovskites are composed of a mixed halide at the X-site and a combination of formamidinium (FA), methylammonium (MA), and cesium (Cs) at the A-site to achieve the desired bandgap, phase stability, and low defect density.
Low-dimensional (2D) or layered hybrid perovskites are gaining increasing attention due to their superior stability. They are based on organic ammonium cation templating layers of hybrid perovskites, whose stability is attributed to the hydrophobicity of the organic spacers and their ability to attenuate ion migration.

In this Special Issue, we are looking for high-quality experimental and theoretical articles that can contribute to these topics, helping the PV community to take a fundamental step in the creation of competitive PSCs. Systematic work on the creation of open-source theoretical and experimental databases will also be highly appreciated, with the idea of laying the foundations for the training of accurately machine-learned interatomic potentials.

Guest Editors

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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