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Advances in Halide Perovskites

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Message from the Guest Editors

Dear Colleagues,

Organic–inorganic halide perovskite materials have experienced tremendous interest from the research community due to their easy fabrication process and high-power conversion efficiency (PCE). Compared to silicon technology, perovskites have the potential to be employed on flexible substrates and semi-transparent windows, areas where silicon is absent. In less than 15 years, the best perovskite solar cell devices have passed the benchmark of 25.8% PCE, making this emerging technology competitive with conventional silicon cells. Efficiency is not the main challenge anymore in perovskite materials; the research community is now slowly shifting toward a more fundamental and crucial question, which is: “How to build perovskite cells with long-term stability”? In order to facilitate the commercialization of perovskite solar cells, their stability needs to be improved to compete with other technology on the market. In this Special Issue of *Crystals*, we would like to collect some pioneering works in the field that investigate innovative approaches to increase the stability of perovskite absorbers.



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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystal*, 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 *Crystal*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the crystal, where science merges with beauty and innovation.

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