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Recent Advances in Perovskite Based Materials

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Message from the Guest Editors

This Special Issue, titled “Recent Advances in Perovskite-Based Materials”, aims to assemble high-quality original research, reviews, and perspectives focused on the advances in perovskite-based materials. The scope of this Special Issue includes, but is not limited to, the following:

- Novel material synthesis and innovative preparation methods;
- Structure and property characterization;
- Device applications;
- Theoretical studies, such as material prediction and design (machine learning, high-throughput screening, etc.) and property mechanism explanations.

We encourage submissions that cover various aspects of perovskite-based materials, from the synthesis of new materials and the development of advanced preparation methods to the characterization of their structures and properties, as well as their applications in devices. Furthermore, we welcome theoretical studies that focus on material prediction and design, utilizing techniques such as machine learning and high-throughput screening, as well as investigations into the underlying mechanisms governing the property of perovskite-based materials.



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Special Issue



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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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