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Recent Advances in Perovskite Based Materials

Guest Editors:

Dr. Gang Tang

Advanced Research Institute of
Multidisciplinary Science, Beijing
Institute of Technology, Beijing,
China

Dr. Hongxia Zhong

School of Mathematics and
Physics, China University of
Geosciences, Wuhan, China

Dr. Peng Lv

International Joint Research
Laboratory of New Energy
Materials and Devices of Henan
Province, School of Physics and
Electronics, Henan University,
Kaifeng, China

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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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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

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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Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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