Special Issue

Preparation and Application of Novel Perovskite Single Crystals and Thin Films

Message from the Guest Editor

Halide perovskite semiconducting materials have potential applications in a wide range of fields such as solar cells, displaying and lightning technologies, due to their excellent charge transport, tunable bandgap, and efficient luminescence properties. The aim of this Special Issue is to collect original research papers and review articles focused on the following issues: (i) Preparation of novel perovskite single crystals and thin films. The in-depth understanding in the thermodynamic and kinetic processes of nucleation and crystallization of perovskites, which is closely related with disciplines including crystallography and physical chemistry. (ii) Application of novel perovskite single crystals and thin films, which include but not limit to the highly efficient perovskite solar cells, photodetectors, waveguides, perovskite lasing devices, scintillators, images sensors.

Guest Editor

Prof. Dr. Jiandong Fan

Institute of New Energy Technology, Jinan University, Guangzhou, China

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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