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

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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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