

Special Issue

Advances in Perovskite Devices

Message from the Guest Editors

Halide Perovskites (HPs) have recently drawn attention as some of the most promising materials due to their excellent optoelectronic properties and solution processability. This Special Issue of *Micromachines* will highlight recent advances on **devices based on halide/pseudohalide perovskites** (single, double, lead-in or free, any dimensional HPs) with a focus on synthesis, degradation phenomena, halides exchange, device engineering and development, characterization, and device modeling (simulation), and related review papers. We invite contributions to the developments of devices including LEDs, solar cells, lasers, detectors, X-ray imaging, photonic devices, and integrated devices. Topics to be covered include, but are not limited to:

- Lead/lead-free halide/pseudohalide perovskites;
- HPs fundamental properties;
- Synthesis techniques of perovskites;
- Perovskite's thin films, LEDs, photovoltaics, lasers, photodetectors, X-ray imaging, photonic devices, flexible and integrated devices;
- Low/high temperature/pressure study of perovskites;
- Perovskite's dynamics and tunable photonic platforms;
- Device simulation.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2022)



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About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

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