Special Issue

Opportunities and Challenges in Organic Optoelectronic Materials

Message from the Guest Editors

In recent years, new organic semiconducting materials have been rapidly developed for use in practical applications, e.g., light-emitting devices, solar cells, transistors, and detectors. The present Special Issue intends to highlight the results of experimental and theoretical investigations into the emerging organic optoelectronic materials, with extension to organic/inorganic hybrid materials, particularly related to state-of-the-art quantum dots and perovskite families. This issue mainly covers light/electricity generation and harvesting mechanisms, based on structure–property relationships. Broad aspects of this topic will be compiled, such as the synthesis of new materials, morphological control, photophysical characterization, defect passivation, thin-film growth, and optical manipulation.

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Deadline for manuscript submissions

30 December 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/229478

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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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