

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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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.

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