

## Special Issue

# Advances in Photovoltaic Materials and Devices

### Message from the Guest Editors

In order to reach the goal of net zero greenhouse gases emission inside a circular economy framework, there are still open challenges that need to be tackled: the development of low-cost, large area, and eco-sustainable technologies; the quest for non-critical raw materials; and the integration of photovoltaic devices for internet-of-things (IoT) applications. We are looking for manuscript exploiting novel materials and architectures for large-scale energy production, as well as for low power IoT devices. Submitted manuscripts should cover one or more of the following subjects:

- Fabrication and characterization of lead-free perovskite solar cells, polymeric solar cells, and metal-oxide solar cells;
- Synthesis and processing of photovoltaic materials using innovative low-cost and low environmental impact methods;
- Characterization and analysis of the physicochemical properties of energy materials (i.e., light absorbing materials, charge transport materials, and charge extraction materials).

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### Guest Editors

Dr. Nicolò Lago

Dr. Mirko Seri

Dr. Andrea Cester

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### Deadline for manuscript submissions

closed (31 January 2023)



## Crystals

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## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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