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Graphene and Other 2D Materials Integration in Photovoltaic Devices

Guest Editor:

Dr. Laura Lancellotti

Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)—Portici Research Centre, Piazzale E. Fermi 1, 80055 Portici (Na), Italy

Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editor

Graphene and several other two-dimensional materials, such as carbon-based materials, silicate clays, transition metal dichalcogenides and transition metal oxides, carbides, nitrides, or carbonitrides are commonly used as active layers, electrodes, dopants or interface layers in solar cells.

The purpose of this Special Issue is to collect high-quality articles dealing with the design, fabrication and characterization of graphene and other two-dimensional materials integrated in photovoltaic devices based on different technologies such as silicon heterojunction, organic and perovskite solar cells and tandem devices. Currently, this research topic is among the hottest in material and device science, from both a technological and a fundamental perspective.

Although the Special Issue is focused mainly on practical applications, it also includes theoretical aspects.

We strongly encourage the submission of both research papers and review articles.



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Special Issue



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Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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