Special Issue

Organic Photovoltaics Films: Fabrication, Properties, and Applications

Message from the Guest Editor

The advantages of organic solar cells that can be produced on flexible substrates with lightweight carbon-based films make this class of solar cells very attractive in terms of commercialization. Fabrication methods used in organic photovoltaics, ranging from vacuum deposition and solution-processed spin-coating to roll-to-roll printing, have been explored over the past 35 years. The most crucial component of the device structure, the photoactive active layer, has undergone extensive examination in terms of its morphology, its chemical and physical properties, as well as its interaction at the interface with buffer layers. We wish to shed light on these films in greater detail in order to gain a deeper understanding of the photon–material interactions and charge generation and collection. This Special Issue of *Coatings* focuses on organic photovoltaics films, their fabrication, properties, and applications. In particular, the topics of interest include, but are not limited to, the following:

- Photoactive polymers
- Heterojunction films
- Solution-processed photoactive films
- Nanoparticulate photoactive film
- Interfacial films in organic photovoltaics

Guest Editor

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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