Special Issue

Advances in Electrochemical Capacitors Materials and Thin Films

Message from the Guest Editor

The need for the development of high-power energy sources, such as electrochemical capacitors (ECs) is increasing. The performance of ECs depends on the chemical and physical properties of the electrode materials. ECs electrodes are generally thin-film coatings applied and electrically connected to a conductive, metallic current collector. The Special Issue is inviting work on synthesis/preparation, characterization techniques, and energy storage applications of materials and thin films. In addition to the original and unpublished research work, comprehensive reviews on relevant areas are welcome. In particular, topics of interest include (but are not limited to) the following:

- Carbon-based materials such as carbon nanotubes, graphene, carbon dots, etc.
- Nanomaterials
- Conducting polymers
- Metal oxides
- Energy storage
- Electrochemical capacitors
- Thin films
- Coatings
- Synthesis
- Characterizations

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)

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About the Journal

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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