Special Issue

Thin Films and Nanostructures for Electronics

Message from the Guest Editor

The world of thin films is seeing continuous growth. In the modern era, it is difficult to look around you without seeing at least one device that uses thin-film technology. The recent strong development of AI hardware is pushing the boundaries of these applications even further. Thin films still have a role to play in energy harvesting and management, bio-based and medical devices, heterogeneous catalysis, functionalized coatings and general miniaturized electronics. This Special Issue aims to bring together recent experimental and theoretical findings related to thin and ultra-thin films, as well as various nanostructures with direct applications in future electronics. Discovery of a new structure or material at the nanoscale must always be accompanied by understanding of its fundamental working principles, and this is not always trivial in the nanoworld. Potential topics include, but are not restricted to:

- new nanomaterials for electronics
- functionalized coatings for medical devices
- film based sensors
- memristors/memcapacitors
- electrochemically formed films/structures
- electrocatalysis for enhanced detection

Guest Editor

Prof. Dr. Andrei Ionut Mardare
Institute of Chemical Technology of Inorganic Materials, Johannes Kepler University Linz, 4040 Linz, Austria

Deadline for manuscript submissions

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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

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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.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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