

Special Issue

Innovative Thin Films for Opto/Electronic Devices

Message from the Guest Editors

Optoelectronic devices have a wide range of applications. Semiconductor materials, which can absorb electromagnetic waves from the UV to the IR region, depending on their bandgap energy ranges and optical properties, are at the center of opto/electrical applications. Nanostructured and 2D semiconductor materials have attracted a great deal of attention in recent years due to their unique physical properties. We are pleased to invite you to this Special Issue of *Coatings* which aims to publish pioneering studies in the field. The Special Issue will include metal oxides, perovskite, quantum dots, conjugated polymers, and 2D material thin-film coatings as well as innovative and cost-effective manufacturing techniques. The theme broadly includes (but is not limited to):

- Metal oxide nanostructured thin-film coatings;
- Perovskite thin-film coatings;
- Quantum dot thin-films coatings;
- Conjugated polymeric thin-film coatings;
- Spray pyrolysis of thin films;
- Ink-jet printing of thin films;
- Self-assembly of opto/electronic materials;
- 2D materials and coatings for opto/electronic devices.

We look forward to receiving your contributions.

Guest Editors

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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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