

Current Research in Thin Film Deposition: Applications, Theory, Processing, and Characterisation

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 August 2020)

Message from the Guest Editor

Dear Colleagues,

We invite you to submit your work to this Special Issue, dedicated to recent and current research in the field of vacuum-deposited thin film coatings. Today, thin films are near-ubiquitous and are utilised in a very wide range of industrially and scientifically important areas.

The topics of interest for this Special Issue include, but are not limited to:

- Thin film Deposition techniques and technology, e.g., ion beam sputtering, CVD, e-beam, thermal evaporation, magnetron sputtering, ALD;
- Vacuum technology;
- Novel materials for thin film applications, e.g., graphene, stanene, silicene, germanene, nanoparticle coatings, metamaterials;
- New applications for thin film coatings;
- Optical coatings, e.g., for UV, visible, IR, X-ray Bragg mirrors, quantum optics;
- Tribological/barrier/protective coatings, e.g., gas barrier coatings, anticorrosion coatings, antifouling coatings;
- Characterisation of thin film coatings: Methods, techniques and theory;
- Reviews of prior research;
- Biomedical coatings.



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Guest Editor

Special Issue

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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.

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