



Functional Thin Films and Coatings: Present Status, Challenges, and a Look Forward

Guest Editor:

Dr. Yanlong Wang

Dalian Institute of Chemical
Physics, Chinese Academy of
Sciences, Dalian 116023, China

Deadline for manuscript
submissions:

closed (15 October 2024)

Message from the Guest Editor

Dear Colleagues,

Functional thin films can achieve specific functions through physical, chemical or biological means, and they have been widely used in electronics, optoelectronics, medicine, environmental protection, and other fields. Therefore, they play an important role in the development of modern science and technology.

Despite the great progress in this field, several significant challenges still remain, such as the exploration of an advanced theoretical mechanism, the fabrication of on-demand designed high-quality thin films, and the precise control of their performance.

This Special Issue will serve as a forum for papers on the following topics:

- The design and preparation of functional films and/or coatings;
- The advanced characterization of films or coatings;
- The preparation and application of functional films and/or coatings;
- The theoretical calculation of functional films and/or coatings;
- New mechanisms of novel properties for functional films.





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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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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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