

Thick and Thin Films for Functional Device Applications

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

In recent years, thick and thin film technologies have seen rapid and significant developments. With their unique properties, the application prospects of functional devices based on thick or thin films are far-reaching, including in various fields such as information technology, energy, medical diagnosis and treatment, and so on.

This Special Issue aims to publish original research papers studying the latest advances on the development of new thick and thin films, including manufacturing processes and practical applications of their functional devices, and reviews describing the state-of-the-art technologies in this field. The current state of this exciting research field will be presented, covering a wide range of topics including, but not limited to,

- New thick and thin films: ceramic and single crystal films, polymer film, composite film, 2-D material film, etc.;
- Functional devices: sensors, actuators, transducers, energy harvesters, wearable devices, etc.



mdpi.com/si/64498

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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