

Special Issue

Advanced Thin Film Fabrication by Sputtering

Message from the Guest Editor

The Special Issue aims to showcase the latest experimental and theoretical developments in advanced thin film fabrication via sputtering, featuring a combination of original research papers and review articles from leading research groups worldwide. The following describes some of the recent major research topics in the field of sputtering thin film technologies:

- High-entropy alloys have different material characteristics such as high-temperature strength, high corrosion/wear resistance, high resistance, and low resistance temperature coefficients, and have been regarded as emerging materials with great potential for special applications in recent years.
- Quasicrystalline thin films have the properties of low resistivity, low thermal conductivity, low friction coefficients, high hardness and low surface energy.
- HiPIMS technology has the following advantages: high-density plasma production, a low-temperature process, a dense film structure, better mechanical properties, low residual stress, smooth film, and good step coverage.

Guest Editor

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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.

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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