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Magnetron Sputter Deposition of Nitride Thin Films and Nanostructures

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you to submit your work to a Special Issue on “Magnetron Sputter Deposition of Nitride Thin Films and Nanostructures”. Nitride compounds are employed to enhance/strengthen the materials properties of many tools and to fabricate electronic and optoelectronic devices commonly used in our daily life.

Magnetron sputter deposition (MSD) is one of the most common techniques used for the coating of thin films and nanostructures in both academia and industry, thanks to its versatility, environmentally friendly deposition process, and suitability for very large area coatings.

This scope of this Special Issue is mainly illustrated by, but not limited to, the following concepts:

- Magnetron-sputtered nitride thin films and nanostructres
- Development of novel nanostructures by MSD
- Study of the effect of sputtering parameters on grown materials properties
- Modelling of magnetron sputtering processes for growing nitrides
- Applications of sputtered nitrides and hybrids
- Functionalization of nitride thin films and nanostructures for various applications
- Advances in process development and modeling

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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