

## Enhanced Thin-Film Application on Sensors

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### Message from the Guest Editors

With the development of thin-film technologies, many thin-film-based devices have been designed and fabricated for various sensing applications, since they can provide specific physical and chemical properties compared with bulk materials. Additionally, the use of advanced nanomaterials can further broaden thin-film applications on sensors. Due to their unique properties, thin films as sensing elements are very sensitive to changes in the surrounding environment; they can be utilized for designing a specific sensor for the detection of gas, humidity, pressure, temperature and acoustic waves, etc.

Therefore, in this Special Issue, we welcome all contributions of original research and review articles, which focus on the development of fabrication, nanomaterials, methods, sensors and applications in theoretical, modeling and experimental aspects related to enhanced thin films. The scope of this Special Issue encompasses, but is not restricted to, the following list:

- Nanomaterial/2D material-based devices;
- Micro-nano-optical sensing devices;
- Piezoelectric devices;
- Surface plasmon resonance sensors;
- Acoustic/ultrasonic sensors;
- Biomolecular sensors;
- Chemical sensors.



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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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