

Special Issue

Enhanced Thin-Film Application on Sensors

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.

Guest Editors

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Deadline for manuscript submissions

closed (20 September 2023)



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About the Journal

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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