Special Issue

Optical Sensing Materials and Coatings

Message from the Guest Editor

Optical fibers or optical guides have been widely applied in optical biological and chemical sensor platforms due to their distinct advantages of being small in size and lightweight as well as possessing chemical inertness, multiplexed detection capability, and lacking electromagnetic interference, to name but a few. Methods to enhance light–matter interactions, central to sensors, include surface plasmon resonance (SPR), localized surface plasmon resonance (LSPR), and optical microfiber technologies. In particular, the topic of interest includes but is not limited to

- Biological and chemical optical sensors
- Sensing or functional materials and coatings for optical sensors
- Light–matter interaction enhancement methods
- Surface plasmon resonance (SPR)-based optical sensors
- Localized surface plasmon resonance (LSPR)-based optical sensors
- Optical microfiber fabrication
- Combination of technologies of sensing materials with optical fibers

Guest Editor

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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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