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Optical Sensing Materials and Coatings

Guest Editor:

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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









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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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