Special Issue

Surface Plasmon Resonance Sensing Technology

Message from the Guest Editor

Surface plasmons are dependent on the composition, size, geometry, particle-particle separation distance of nanoparticle, especially for localized surface plasmon resonance. Recent developments in nanotechnology have generated new insight about control of various properties of nanomaterials that can support and tune surface plasmons for specific applications. Common materials used for surface plasmons are noble metals such as Ag and Au.

The optimization of surface plasmons for rapid, easy, and cost-effective have generated new challenges for researchers. Despite the challenges the surface plasmon faces in terms of implementation of practical and complicate applications, the development of surface plasmon configuration and nanomaterials provide an opportunity to improve their performance and reach their full potential in optical sensing. In particular, the topics of interest include but are not limited to the following:

- Generation of nanomaterial
- Fiber optic sensor
- Improvement of surface plasmons
- Interaction between light and nanomaterials

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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