

Special Issue

Spectral Properties and Regulation of Material Surface with Diversified Structures

Message from the Guest Editor

Areas of focus include but are not limited to the following:

- Theory and simulation for the spectral properties of various material surfaces with different characteristic micro/nanostructures.
- Generation mechanism of the surface spectral characteristics based on different types of surface structures and different substrates.
- Design and preparation methods of surface structures with specific spectral characteristics and corresponding spectral controlling technology.
- Various surface-enhanced spectroscopy technology induced by metamaterials, such as, lithography, etching technology, nanotechnology, 3D printing technology, thin film deposition technology, laser direct writing, and other new technologies.
- The further application of surface spectral characteristic in various fields, such as aviation, aerospace, biomedical science, automotive, chemical, machinery, energy, optics, and others.
- Machine learning (ML) and artificial intelligence (AI) applying to the design and regulation of extraordinary functions and characteristic spectra of material surfaces.

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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