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Nanofabricated Surfaces for Biomedical Applications

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Message from the Guest Editor

A man-made nanostructures on a surface can be nanofabricated via top-down, bottom-up, combination, or template-assisted route, which can bring novel physical and/or chemical properties for the coating. For example, a noble-metal-coated substrate with a particular nanostructured surface can be integrated into a measurement system, e.g., as a biosensor component for highly-sensitive detection under a trace amount of target molecule, or for highly selective distinction among target molecules in a complex solution. In particular, for recent years, nanofabricated coatings with surface-enhanced Raman scattering properties have created a great deal of potential for the detection of Raman-active species, ranging from single molecules to biomolecules or bio-organism. For this Special Issue, a nanostructured coating produced through a top-down, bottom-up, combination, or template-assisted route is the main topic. A bottom-up method using, e.g., nanoparticles (NPs) or graphene techniques, is also of interest. In addition, the as-prepared coatings are preferably directed to biomedical applications.

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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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