

Special Issue

Bioadhesion on Laser Functionalized Surfaces

Message from the Guest Editors

Bioadhesion denotes the intrinsic capacity of biological entities, including cells, proteins, or organisms, to adhere to various surfaces. This Special Issue will provide an academic and scholarly platform for the dissemination of the latest technical accomplishments and for the elucidation of pivotal concerns and complexities poised to shape the trajectory of the field's future development. The research topics within this Special Issue will include, but are not limited to, the following:

- Laser textured surfaces for anti-fouling applications.
- Protein adsorption on laser nanotextured surfaces.
- Cell and bacterial attachment on laser-induced periodic surface structures (LIPSS).
- Dynamic bioadhesion on laser micro/nano textures.
- Biocompatibility and cytotoxicity of laser functionalised surfaces.
- Modelling the role of surface topography and chemistry in bioadhesion.
- Process chains involving laser surface modification for manufacturing medical devices.

Guest Editors

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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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