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Surface Modification of Polymers by Low Temperature Plasma Treatment

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editor

Dear Colleagues,

We would like to invite you to submit your work to this Special Issue on "Surface Modification of Polymers by Low Temperature Plasma Treatment". The Issue focus on the use of low-temperature glow discharge plasma for the direct modification of the polymer surface, as well as obtaining thin polymer coatings on various substrates through chemical deposition from the gas phase (PECVD). We plan to collect articles and mini-reviews that will demonstrate examples of using various experimental plasma-chemical techniques to obtain coatings of different types, characterize their chemical and morphological structure using instrumental methods, and study their properties. The use of the obtained polymer and hybrid materials in various fields will be discussed—for example, in solving problems of

- improving the adhesive properties of polymer films;
- improving the characteristics of gas separation membranes;
- applying protective coatings;
- immobilizing bioactive substances on the surface in tissue engineering;
- improving the biocompatibility of polymer materials, etc.

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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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