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The Fourth State of Engineering: Nanoengineered Materials and Coatings Facilitated by Plasma Techniques

Collection Editors:

Prof. Dr. Krasimir Vasilev

Prof. Dr. Kostya (Ken) Ostrikov

Dr. Thomas Michl

Dr. Akash Bachhuka

Message from the Collection Editors

Dear Colleagues,

In this Special Issue, we invite investigators to contribute original research articles as well as review articles. These articles are to inspire research towards the next generation of plasma derived nanoscale interfaces, coatings and structures. Potential topics include, but are not limited to:

- Plasma synthesis of nanomaterials
- Nanoscale plasma polymer coatings
- Plasma assisted surface modification
- Plasma nano texturing of surfaces
- Applications of plasma derived nanomaterials, coatings and interfaces in different fields (such as medicine, energy, agriculture and beyond)
- Modeling of plasma facilitated process for fabrication of nanomaterials

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Guest Editors

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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