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Advances in Functional Inorganic Coatings

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Message from the Guest Editors

Dear Colleagues,

As witnessed by the publication, over the last 20 years, of over 7000 papers and dedicated textbooks and handbooks, the filing of hundreds of patents, and many already-established industrial applications, thematic sessions at international conferences and dedicated specialized conferences, inorganic coatings represent a mature field of research. This robust interest has to be mainly ascribed to the possibility to tailor the properties of a material through the application of a coating, which can either protect the underlying bulk material, but can additionally endow it with further functionalities, such as, but not limited to, catalytic, anti-bacterial, optical, anti-static, hydrophobic/hydrophilic, etc. In this framework, a relevant issue is the design of coating composition and microstructure, which can be both tailored by adjusting experimental parameters in the preparation and in the deposition steps. The main focus of this Special Issue is the chemical design of inorganic coatings of both inorganic and organic/biologic substrates to pursue functionality.

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Prof. Dr. Mauro Carraro
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Message from the Editor-in-Chief

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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