

Advances in Functional Inorganic Coatings

Guest Editors:

Prof. Dr. Silvia Gross

Department of Chemical
Sciences, University of Padova,
35131 Padova, Italy

Prof. Dr. Mauro Carraro

Department of Chemical
Sciences, University of Padova,
Padua, Italy

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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.

Dr. Silvia Gross

Prof. Dr. Mauro Carraro

Guest Editors





Editors-in-Chief

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State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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