



Modelling and Simulation of Coating 2019

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Message from the Guest Editor

Dear Colleagues,

Modelling and simulation has become a key tool in engineering and materials science. It complements experimental testing and also has the potential to study and identify physical phenomena that cannot be detected experimentally. It has been successfully used to support the design and optimization of new materials and structures. This Special Issue is devoted to computational modeling of coating. In addition, manuscripts on innovative computational methods, which have the potential to be applied to coating or coating materials, can be submitted to this Special Issue. They include approaches ranging from quantum mechanics and molecular dynamics, coarse-grained models, and Monte-Carlo simulations up to classical continuum-based approaches, based on finite element methods or isogeometric analyses.

Prof. Dr. Timon Rabczuk

Guest Editor





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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.

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