

Special Issue

Advances in Modelling and Simulation of Deposition and Plasma Etching Processes

Message from the Guest Editors

This Special Issue invites researchers within the field from across the world to publish their latest work. As such, the Special Issue may also be seen as a comprehensive compendium for scholars interested in pursuing computational research in deposition and plasma etching, and as a resource for industries looking for experts in the field.

In particular, the scope of this Special Issue includes—but is not limited to—the following: computational studies concerning any scale or more than one scale (multiscale modeling) in deposition (CVD, PVD, ALD, electrodeposition, plasma, etc.) and etching (ALE, plasma, etc.) reactors; transport phenomena (mass, momentum, energy) and chemical kinetics in the gas phase or on the surface, where deposition or etching takes place. Studies considered for publication in this Special Issue may be based on Monte Carlo/kinetic Monte Carlo, ab initio, continuum, empirical, or machine learning models. Additionally, we encourage the submission of papers engaging with a comparison of measurements for the validation of model results and the combination of physical modeling with machine learning models.

Guest Editors

Dr. Nikolaos Cheimarios

1. Researcher, NovaMechanics Ltd., Digeni Akrita 51, Nicosia 1070, Cyprus
2. Entelos Institute, Larnaca 6059, Cyprus

Dr. George Kokkoris

Division of Process Analysis and Plant Design, School of Chemical Engineering, National Technical University of Athens, 15780 Athens, Greece

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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About the Journal

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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Prof. Dr. Wei Pan

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

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