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Wet Chemical Solution Deposition

Guest Editors:

Message from the Guest Editors

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Deadline for manuscript submissions: closed (10 October 2021) Dear Colleagues,

Inorganic and hybrid coatings are well studied and can be applied by using vacuum methods and wet chemical deposition methods. Applying coatings on different kinds of substrates by using wet chemical precursors implies a careful selection of precursor chemicals, including additives and tuning solvents, to enhance wetting, control decomposition, and optimize the crystal growth process. Especially, the epitaxial growth of oxide films by a wet chemical solution is challenging but has proven to be possible, for example, for ferroelectric films, superconducting coatings, etc..

The aim of this Special Issue is to serve as a forum for papers on the following topics:

Wet chemical solution deposition of inorganic and hybrid coatings

Coatings produced by different processes such as ink-jet printing, dipcoating, spincoating, roll-to-roll coating, spray coating

Stability of the coatings over time including durability tests, weathering test

Recent developments allowing to measure the mechanical properties of thin films: scratch resistance, peel off, delamination, etc..

Specialsue



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Message from the Editorial Board

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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