Special Issue

Wet Chemical Solution Deposition

Message from the Guest Editors

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..

Guest Editors

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Deadline for manuscript submissions

closed (10 October 2021)

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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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