# Special Issue

# Advances in Epitaxial Thin Films: Materials and Applications

## Message from the Guest Editors

Chemical solution deposition (CSD) has emerged as a mature technique for the fabrication of functional oxide thin films due to a number of advantages. Chemical deposition is attractive for preparing both epitaxial and polycrystalline oxide and metallic thin films due to the fact that the precursor solution can easily be deposited on a substrate through spinning, dipping, ink-jet printing, etc. This technique is versatile, inexpensive, and does not require expensive equipment, compared to physical methods. The composition can be easily controlled and modified, providing an atomic level mixing of the elements, reducing the diffusion path down to the nanometric scale to obtain the desired material and, as a consequence, to lower synthesis temperatures. The preparation of inorganic materials from metal–organic precursors generally has the advantage of a low temperature of formation, low temperature of crystallization, good compositional uniformity, and good conformal coverage of the substrate. For further reading, please click the following link: https://www.mdpi.com/journal/coatings/special_issues/Film_Chemical

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## Deadline for manuscript submissions

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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.
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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