Special Issue

Advanced Deposition Technology for Functional Ceramic Films and Coatings

Message from the Guest Editor

Advanced functional ceramic films and coatings are critical in the development of materials that address pressing social needs related to climate change and environmental challenges for the development of innovative, clean and environmentally friendly energy technologies. From energy storage and conversion devices such as ceramic fuel cells and electrolytic cells, advanced batteries and capacitors, to catalyst membranes for ceramic separation membranes, and corrosion protection for aerospace, medical, automotive and chemical industries,It is a great pleasure to announce this Special Issue of Coatings devoted to “Advanced Deposition Technology for Functional Ceramic Films and Coatings. Advanced molecular deposition techniques for functional ceramic films in energy applications; Advanced molecular deposition techniques for ceramic films in the chemical industry and separation technologies; Advanced particulate and Scaling up of deposition techniques for ceramic films and coatings; First-principle and process modeling of deposition technologies for ceramic films; Characterization techniques for functional ceramic films and coatings.

Guest Editor

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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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