



## Atomic Layer Deposition for the Synthesis and Application of Thin Films

Guest Editors:

**Dr. Catalina Mansilla Sanchez**

Ctechnano Coating  
Technologies, Tolosa Hibiridea  
76, 20018 San Sebastián, Spain

**Dr. Diego Martinez-Martinez**

Centre of Physics of Universities  
of Minho and Porto, School of  
Sciences, University of Minho,  
Campus de Azurém, 4800-058  
Guimaraes, Portugal

Deadline for manuscript  
submissions:

**closed (28 February 2022)**

### Message from the Guest Editors

Dear Colleagues,

Atomic layer deposition (ALD) is a technique that allows the conformal deposition of thin films with excellent quality. This issue is devoted to novel developments on ALD, such new precursors that allow the deposition of new materials and/or better purity or quality of the deposited films. Furthermore, contributions deescribing new applications of ALD are welcome, for instance, on complex substrates with reduced dimensionality such as nanoparticles (0D), nanotubes (1D), and nanolyers (2D). In addition, we are particularly interested in the use of ALD technology on porous substrates (e.g., porous fibers or polymers) leading to the so-called vapor phase infiltration (VPI) technique.

Dr. Catalina Mansilla Sanchez

Dr. Diego Martinez-Martinez

*Guest Editors*





## Editors-in-Chief

### 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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Surfaces, Coatings and Films*)

## Contact Us

---

Coatings Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/coatings  
coatings@mdpi.com  
X@Coatings\_MDPI