



## Advances in Nanoscale Coatings for Composites

Guest Editor:

**Prof. Dr. Kyong Yop Rhee**

Department of Mechanical Engineering, Kyung Hee University, 1732 Deogyong-daero, Yongin-si 17104, Gyeonggi-do, Republic of Korea

Deadline for manuscript submissions:

**closed (29 February 2020)**

### Message from the Guest Editor

The aim of the Special Issue “Advances in Nanoscale Coatings for Composites” is to cover the recent reports based on nanoscale coatings for composites in the form of thin films, nanoparticles, and nanocapsules. Nanoscale coatings provide the benefits of flexibility, durability, less weight, better adhesion, among many others. Especially in composites, the coating plays a crucial role in improving the performance of the final product by improving the dispersion and/or increasing the interfacial interactions between the host matrix and the filler materials. These kinds of coatings can be obtained using different methods, like dip coating, sol–gel, spray coating, CVD, PVD, and self-assembly. However, there are still many issues that need to be resolved, like cost-efficiency, premature failure, etc. Towards this, we encourage researchers to share their work on the advancements in the field of nanoscale coatings for composite materials.

In particular, the topics of interest include but are not limited to:

- Surface treatments;
- Interfacial interactions;
- Multifunctional coatings;
- Conductive coatings;
- Characterization of thin films.





## 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, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

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