



## Advances in Polymer-Based Thin Films

Guest Editors:

**Dr. Nitin Krishnamurthy  
Hansoge**

Corporate Research Laboratory,  
3M, St. Paul, MN, USA

**Dr. Ana Drinčić**

Department of Material  
Chemistry, Institute of Chemistry,  
Hajdrihova 19, 1000 Ljubljana,  
Slovenia

**Dr. Ivan Jerman**

Assistant Professor, Department  
of Material Chemistry, National  
Institute of Chemistry, Hajdrihova  
19, 1000 Ljubljana, Slovenia

Deadline for manuscript  
submissions:

**closed (30 April 2024)**

### Message from the Guest Editors

Polymer-based coatings and thin films provide excellent mechanical, thermal, and chemical properties, which make them ideal for many advanced applications.

This Special Issue aims to present recent advances in the field of polymer-based coatings and thin films, with a focus on synthesis, processing, characterization, and performance evaluation and covering topics from fundamental understanding to practical applications. Original research papers, reviews, and perspectives are welcome, including but not limited to the following:

- Novel synthesis and processing methods for polymer-based coatings and thin films.
- Surface modification of polymers for improved adhesion, wetting, and corrosion resistance.
- Multifunctional coatings and thin films for sensing, actuation, and energy storage.
- Bioinspired coatings and thin films for biomedical applications.
- Advanced characterization techniques for polymer-based coatings and thin films.
- Computational modeling and simulation of polymer-based coatings and thin films.
- Scale-up and manufacturing of polymer-based coatings and thin films.
- Challenges and opportunities in commercializing polymer-based coatings and 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, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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