



Thin Polymer Films Properties

Guest Editors:

Prof. Dr. Nicolas Delorme

Institut des Molécules et
Matériaux du Mans (IMMM), UMR
6283 CNRS, Le Mans Université,
Avenue Olivier Messiaen, 72085
Le Mans CEDEX 9, France

Prof. Dr. Guillaume Vignaud

Institut de Recherche Dupuy de
Lôme (IRD), UMR CNRS 6027,
Université Bretagne Sud, 56321
Lorient, France

Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

Thin polymer films have technological applications in various industrial sectors related to protective and functional coatings, non-fouling surfaces, and so on. With the development of molecular electronics, flexible display devices or even self-cleaning surfaces, the demand for functional thin polymer or composite films is going to increase.

Polymers in thin films and nanocomposite structures can exhibit unusual physical properties due to the geometric constraints imposed by the presence of surfaces and interfaces. As a consequence, the composition, fabrication method, and external environment play a major role in the functionality and stability of these systems.

This Special Issue of *Coatings* “Thin Polymer Films” is devoted to research and review articles on the stability and characterization of the physical properties of polymer or composite thin films.

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

- Effect of confinement on the physical properties (glass transition temperature, density, mechanical properties, barrier properties);
- Effect of the interface on thin film stability;
- Aging of thin polymer film.





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