

Special Issue

Polymer Thin Films: From Fundamentals to Applications

Message from the Guest Editor

Research on polymer thin films is an ongoing process, where basic knowledge about the preparation of coatings formulation and/or complex interactions between the substrate and the coating are the key factors for producing a quality and durable product. The use of polymer thin films is currently implemented in almost every aspect of modern life, due to their cost-efficiency, lightness, flexibility, and unique physical and chemical properties. Polymer thin films are used as coatings that modify and/or increase the functionality of bulk surface or substrate.

The topics of interest for this Special Issue include but are not limited to:

- Synthesis of novel polymer thin films;
- Correlations and predictions of rheological and mechanical properties of polymer thin films;
- Novel polymer thin films;
- Novel materials with functional properties, e.g., conductive, optical, tribological, barrier, protective, antifouling coatings;
- Relationships between deposition process parameters and polymer thin film microstructure;
- New trends in polymer thin 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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