

Special Issue

Advances in Polymer Composite Coatings and Films

Message from the Guest Editors

Polymer composite coatings and films have gained significant attention for their multifunctional properties such as enhanced mechanical strength, barrier performance, corrosion and UV resistance, flame retardancy, and antibacterial activity. The integration of polymers with nanomaterials, bio-based elements, and smart additives offers promising avenues for sustainable, high-performance systems that extend service life and enable energy-efficient, environmentally friendly solutions. This Special Issue on *Recent Advances in Polymer Composite Coatings and Films* invites original research, communications, and reviews on innovative design, processing, characterization, and applications. Topics include structure–property relationships, interfacial engineering, and multifunctional uses in energy, environment, healthcare, and protective technologies. We aim to foster interdisciplinary exchange and inspire breakthroughs in next-generation polymer composites with enhanced performance and sustainability.

Guest Editors

Dr. Long Zheng

School of Materials Science and Engineering, Wuhan Textile University, Wuhan 430200, China

Dr. Xi Zhang

College of Light Industry Science and Engineering, Beijing Technology and Business University, Beijing 100048, China

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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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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.

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

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