

Special Issue

Innovative Flame-Retardant Coatings for High-Performance Materials

Message from the Guest Editors

The application of high-performance coating materials is crucial in sectors such as aerospace, electronics, construction, and transportation due to their superior attributes. However, their flammability significantly limits their broader utilization. To date, the incorporation of flame retardants has proven to be an effective strategy in enhancing the fire resistance of these coatings. To mitigate potential health and environmental concerns, it is imperative to fundamentally understand and develop coating materials with flame-retardant properties, as well as consider their impact on other crucial properties, including mechanical strength, thermal stability, smoke suppression, and processing characteristics. This Special Issue of the journal *Coatings*, entitled "Flame-Retardant Coatings for High-Performance Materials," is dedicated to showcasing recent research and advancements in the preparation, properties, and applications of high-performance flame-retardant coatings.

Guest Editors

Dr. Mingfeng Chen

College of Chemistry and Materials Science, Fujian Normal University, Fuzhou, China

Dr. Shuqiang Peng

College of Materials Science and Engineering, Fujian University of Technology, Fuzhou, China

Deadline for manuscript submissions

31 August 2026



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/225315

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

[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)





Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)



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

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), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)