

Special Issue

Recent Developments, Applications and Failure Behaviors of Functional Coating Battery Separator

Message from the Guest Editor

We would like to invite you to submit your original research to this Coatings Special Issue entitled “Recent Developments, Applications and failure behaviors of functional coating battery separator”. The goal of this Special Issue includes all aspects of research related to functional coating separator and its application or failure behavior, including theoretical and application-oriented papers, experimental and numerical studies, case studies, and reviews. We encourage you to send manuscripts containing scientific findings within the broad fields of battery separators and its application or failure behavior. In particular, the topic of interest includes but is not limited to:

- Lithium battery separator;
- Lithium-sulfur battery separator;
- Zinc battery separator;
- Heat-resistant coated separator;
- Flame-retardant coated separator;
- Separator aging;
- Puncture damage and lithium dendrites;
- Fatigue failure;

Guest Editor

Dr. Ruijie Xu

Department of Polymer Materials and Engineering, Guangdong
University of Technology, Guangzhou 510006, China

Deadline for manuscript submissions

closed (31 October 2023)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/106216

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

Journal Rank:

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