coatings

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

CITESCORE 4.7

New Advances in Interfacial Mass Transfer

Guest Editors:

Priv.-Doz. Dr. Yan Jin
Center of Applied Space Technology and Microgravity (ZARM), Am Fallturm 2, 28359, Bremen, Germany

Dr. Zhe Lin
Zhejiang Sci-Tech University, National-Provincial Joint Engineering Laboratory for Fluid Transmission System Technology, Hangzhou, China

Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Interfacial mass transfer is a popular phenomenon in everyday life as well as an important process in industry. Their effects on the boundary layer of species concentration are still not fully understood. As a result, it is difficult to predict the interfacial mass transfer rate accurately. Intensive experimental and numerical studies of interfacial mass transfer have been carried out in recent years. Through this work, we expect the understanding of interfacial mass transfer can be further enhanced.

The theme of this special issue broadly includes (but is not limited to):

- New experimental methods for measuring interfacial mass transfer rate;
- New numerical methods and multiphase models for calculating interfacial mass transfer;
- Interfacial mass transfer of bubbles;
- Evaporation or combustion of liquid droplets;
- Convection induced by interfacial mass transfer;
- Interfacial mass transfer in canopy flows and atmospheric flows;
- Novel methods for enhancing interfacial mass transfer;
- Theoretical analysis of interfacial mass transfer;
- Correlations for the Sherwood number.

coatings

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

CITESCORE 4.7

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 called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest 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 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
𝕏@Coatings_MDPI