

Special Issue

New Advances in Interfacial Mass Transfer

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.

Guest Editors

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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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