# **Special Issue**

# Ion and Molecule Transport in Membrane Systems 3.0

# Message from the Guest Editor

A description of ion and molecule transportation through all kinds of membranes, similarities in the behavior of biological and artificial membranes; biomimetic structural features of artificial membranes and their impact on membrane properties and performance for separation processes; the physicochemical and chemico-physical aspects of ion and molecule transportation; the equilibriums and kinetics of transportation processes in membrane systems; the coupling of ion and molecule transportation with chemical reactions and catalysis; the impact of forced and natural convection on ion and molecule transportation: the mechanisms of electric currentinduced convection and their impact on ion and molecule transportation across membranes: concentration polarization and the coupled effects occurring in membrane systems under the action of external pressure and electric driving forces (external pressure and electric potential gradients applied to a membrane); and the physico-chemical and chemicophysical aspects of transportation, separation, purification, and fractionation of organic acids, bioactive compounds, ampholytes, and nutrients, in membrane systems.

#### **Guest Editor**

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## Deadline for manuscript submissions

closed (15 March 2022)



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## **Editor-in-Chief**

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