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Ion and Molecule Transport in Membrane Systems 2.0

Guest Editor:

Prof. Dr. Victor V. Nikonenko

Department of Physical Chemistry, Kuban State University, 149 Stavropolskaya st., 350040 Krasnodar, Russia

Deadline for manuscript submissions:

closed (31 December 2020)

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 physico-chemical and chemico-physical aspects of ion and molecule transportation; 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 current-induced 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 chemico-physical aspects of transportation, separation, purification, and fractionation of organic acids, bioactive compounds, ampholytes, and nutrients, in membrane systems.













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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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