SIMI SCIENTIFIC COMMITTEE

Section: Sustainable Environmental Technologies

Prof. Dr. hab. Stanisław Koter

ACTUAL POSITION

Professor

Nicolaus Copernicus University in Torun, Faculty of Chemistry

7, Gagarina Str., 87-100 Torun / Poland

ACADEMIC QUALIFICATION

D.Sc. (habilitation) - graduated in 2001 from Nicolaus Copernicus University in Torun (Poland).

Ph.D. - graduated in 1985 from Nicolaus Copernicus University in Torun (Poland)

M.Sc. in Chemistry - graduated in 1979 from Nicolaus Copernicus University in Torun (Poland)

RESEARCH INTEREST

Theoretical and experimental studies of membranes and membrane separation techniques with polymeric membranes: investigations on properties and transport phenomena especially in electro-, pressure- and concentration-driven processes (electrodialysis, electro-electrodialysis, electrodialysis with bipolar membrane, diffusion dialysis, Donnan dialysis, nanofiltration, ion permeation through liquid membranes).

SCIENTIFIC PUBLICATIONS

The chosen publications (2013-2017):

- ***S. Koter, P. Szczepański, M. Mateescu, G. Nechifor, L. Badalau, I. Koter, Modeling of the cadmium transport through a bulk liquid membrane, Separation and Purification Technology 107 (2013)135-143***
- ***S. Koter, M. Kultys, B. Gilewicz-Łukasik, I. Koter, Modeling the transport of sulfuric acid and its sulfates (MgSO4, ZnSO4, Na2SO4) through an anion-exchange membrane, Desalination 342 (2014) 75–84.***
- ***S. Koter, A. Kujawska, W. Kujawski, Modeling of transport and separation in thermopervaporation process, Journal of Membrane Science, 480 (2015) 129-138.***
- ***S. Koter, P. Chojnowska, K. Szynkiewicz, I. Koter, Batch electrodialysis of ammonium nitrate and sulfate solutions, Journal of Membrane Science 496 (2015) 219-228.***
- ***P. Cytarska, S. Koter, G. Trykowski, L. Stobiński, Filtration properties of membranes with active graphene oxide layer, Desalination and Water Treatment, 64 (2017) 350–358.***
- ***M. Wiśniewski, S. Koter, A.P. Terzyk, J. Włoch, P. Kowalczyk, CO_2 - reinforced nanoporous carbon potential energy field during CO_2/CH_4 mixture adsorption. A comprehensive volumetric, in-situ IR, and thermodynamic insight, Carbon (2017) https://doi.org/10.1016/j.carbon.2017.06.057.***