

A Scientific Journey with Ionophore-Based Sensors

Eric Bakker

Department of Inorganic and Analytical Chemistry, University of Geneva,
CH-1211 Geneva, Switzerland

eric.bakker@unige.ch

This talk aims to outline some key steps that resulted in conceptual advances in the field of ionophore-based sensors in the past 30 years. Major emphasis will be placed on how a simplified understanding of membrane electrode theory has resulted in a plethora of new readout principles, characterization protocols and analytical advances that go far beyond what was thought possible in this chemical sensing field.