

Molecular redox receptors for cations sensing

Eleonora-Mihaela UNGUREANU, Alina-Catrinel ION, Ion ION and
Angela POPESCU

“Politehnica” University, Faculty of Industrial Chemistry, 132 Calea Grivitei, 78122 Bucharest, Romania

Abstract The ferrocene – based macrocycles redox ionophores and their behaviours have been evaluated with respect to the potentiometric or amperometric electrochemical recognition of Li^+ , Na^+ , K^+ , Ca^{2+} , Mg^{2+} Ba^{2+} cations.

Keywords: molecular redox receptors, alkaline and earth alkaline cations, ferrocene, cyclic voltammetry, UV-vis spectrometry
