

البحث السادس (البحث رقم 7 في القائمة)

“A Novel Fluorimetric Bulk Optode Membrane Based on NOS Tridentate Schiff Base for Selective Optical Sensing of Al ³⁺ Ions”		عنوان البحث : (باللغة الانجليزية)
Ayman A. Abdel Aziz & Rania G. Mohamed & Fatma M. Elantabli & Samir M. El-Medani		المؤلفون: (باللغة الانجليزية)
عدد المؤلفين من خارج تخصص المتقدم: لا يوجد	ترتيب المتقدم علي البحث: الثاني	عدد المؤلفين: 4
العدد: 26	Journal of Fluorescence –	
سنة النشر: 2016		أرقام الصفحات: 1927-1938
الناشر: Springer		معامل التأثير (IF): 1.601

ملخص البحث:

A new highly selective and sensitive fluorometric optode was developed for the determination of very low concentrations of aluminum(III) ions in real samples, such as bottled drinking water, bottled mineral water, and soft drinks.

The optode's response to aluminum(III) concentrations in the range of 1×10^{-9} to 4.4×10^{-3} mol/L was studied. Studies also demonstrated that the new optode exhibits high stability, facilitating its reusability. The ligand used was prepared and characterized in the doctoral thesis of Fatima Mahmoud Samida Al-Entabli, and the first author, Dr. Ayman Ahmed Abdel Aziz Al-Dakhkhni, is not a member of the supervisory board.