

Accepted Manuscript

Review article

Overview of the chemosensor ligands used for selective detection of anions and metal ions (Zn^{2+} , Cu^{2+} , Ni^{2+} , Co^{2+} , Fe^{2+} , Hg^{2+})

Amit Patil, Sunita Salunke-Gawali

PII: S0020-1693(17)31910-2
DOI: <https://doi.org/10.1016/j.ica.2018.05.026>
Reference: ICA 18277

To appear in: *Inorganica Chimica Acta*

Received Date: 18 December 2017
Revised Date: 18 April 2018
Accepted Date: 21 May 2018

Please cite this article as: A. Patil, S. Salunke-Gawali, Overview of the chemosensor ligands used for selective detection of anions and metal ions (Zn^{2+} , Cu^{2+} , Ni^{2+} , Co^{2+} , Fe^{2+} , Hg^{2+}), *Inorganica Chimica Acta* (2018), doi: <https://doi.org/10.1016/j.ica.2018.05.026>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Overview of the chemosensor ligands used for selective detection of anions and metal ions (Zn^{2+} , Cu^{2+} , Ni^{2+} , Co^{2+} , Fe^{2+} , Hg^{2+})

Amit Patil^a, Sunita Salunke-Gawali^{a*}

^a*Department of Chemistry, Savitribai Phule Pune University, Pune 411007, India*

Keywords: Chemosensors, selectivity, sensitivity, receptor, anion sensors, metal ions

Abstract

Chemosensors possess significant importance in biological and environmental systems for the detection of various chemical species. This review commences with a short description of most commonly used chemosensor ligands for anions and metal ions viz. Zn^{2+} , Cu^{2+} , Ni^{2+} , Co^{2+} , Fe^{2+} and Hg^{2+} . We also summarize anion sensing, pH, selectivity and sensitivity, stoichiometry ratio of various chemosensor ligands. This review mainly focuses on the selectivity of chemosensor on particular metal ions

Download English Version:

<https://daneshyari.com/en/article/7750196>

Download Persian Version:

<https://daneshyari.com/article/7750196>

[Daneshyari.com](https://daneshyari.com)