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Frank Davis, Stuart D. Collyer, Seamus P. J. Higson. Pages 97-124. Anion Sensing by Metal-Based Receptors

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Summary This chapter contains sections titled: Introduction Membrane-Based Devices Molecular Sensors Deprotonation Versus Anion Complexation Chemodosimeters Displacement Assays Arrays and Pattern R...

[Anion Sensors - Chemosensors - Wiley Online Library](#)

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Anion recognition chemistry has grown from its beginnings in the late 1960s with positively charged ammonium cryptand receptors for halide binding to, at the end of the millennium, a plethora of charged and neutral, cyclic and acyclic, inorganic and organic supramolecular host systems for the selective complexation, detection, and separation of anionic guest species.

Anion Recognition and Sensing: The State of the Art and ...

This Tutorial Review provides a short survey of anion sensing by small molecule anion

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receptors, molecular ensembles and chemodosimeters. The review highlights the many different mechanisms and approaches employed by supramolecular chemists for anion sensing and the wide structural variety present in these s Sensor Targets

Anion sensing by small molecules and molecular ensembles ...

Sensing of Aqueous Fluoride Anions by Cationic Stibine–Palladium Complexes ...

First published: ... Bindung of the fluoride anion to the antimony center induces a change in denticity of the triphosphine unit and

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leads to a bright-orange trigonal-bipyramidal d 8 lantern complex.

Sensing of Aqueous Fluoride Anions by Cationic Stibine ...

The synthesis and the spectroscopic studies of the amidourea based calixarene sensors 1 and 2 are described. The 4-nitrophenyl based sensor 1 was synthesized in two steps from the corresponding calix arene tetraethyl ester and shown to give rise to color changes in the UV-vis spectra in DMSO upon recognition of pyrophosphate and fluoride.

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Colorimetric Recognition of Anions Using Preorganized ...

With this in mind we set out to prove the principle of anion sensing using charge-neutral receptors for anions. Our original aim was to combine the anthracene fluorophore as found in 1 with anion binding receptors based on the thiourea structure. We anticipated stronger hydrogen bonding interactions between acetate or phosphate anions and the receptor, as they each can participate in complementary linear 'Y-type' H-bonding, than with the spherical anions such as the halides, which would ...

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Anion recognition and sensing in organic and aqueous media ...

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The Principles of Ion-Selective Electrodes and of Membrane ...

Compared to the many studies that focus on the development of novel molecular frameworks pertaining to functionalized fluorescent materials, there is lesser emphasis on side

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chains even though they have a significant impact on the properties and applications of fluorescent materials. In this study, a series of pyridinium-functionalized tetraphenylethene salts (TPEPy-1 to TPEPy-4) possessing ...

Fine Tuning of Emission Behavior, Self-Assembly, Anion ...

The first four types possess anion receptors attached directly to the chromophores, while the guest displacement techniques employ indicators that are replaced by specific anions. The last type has emerged recently

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and uses specific reactions between chromogenic hosts or indicators and particular anions to cause dramatic color changes.

Chromogenic Anion Sensors | SpringerLink

Anion-sensing molecules have been developed by utilizing the interaction between a target anion and organic compounds, organometallic compounds, or metal complexes. The efficient anion sensors require the following properties: (1) They are available even at low concentrations such as parts per million (ppm) and parts per billion (ppb).

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Anion - an overview | ScienceDirect Topics

Advances in Anion Sensing. Abstract. P1: KEE
Journal of Fluorescence [J0FL]

pp1140-jofl-481434 February 9, 2004 18:0 Style
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Fluorescence, Vol. 14, No. 2, March 2004 (©
2004) The Journal of Fluorescence is to
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methods for anion nal Special issue,
dedicated to the Advances in Anion sensing
Sensing.

Advances in Anion Sensing, Journal of

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Fluorescence | 10 ...

Off-the-shelf, prêt-à-porter multianalyte sensing systems are based on the ability of cell-penetrating peptides (CPPs; see picture, blue) to mediate the export of hydrophilic anions (yellow→green) from lipid bilayer vesicles (gray). Covalent capture of hydrophobic analytes (black) with hydrophilic anions (red) produces amphiphilic anions that can activate CPPs.

Amplifier-Mediated Activation of Cell-Penetrating Peptides ...

Cite this chapter as: Houk R.J.T., Tobey

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S.L., Anslyn E.V. Abiotic Guanidinium Receptors for Anion Molecular Recognition and Sensing. In: Stibor I. (eds) Anion Sensing.

Abiotic Guanidinium Receptors for Anion Molecular ...

A Halogen-Bonding Catenane for Anion Recognition and Sensing. *Angewandte Chemie International Edition* 2012, 51 (8) , 1876-1880. DOI: 10.1002/anie.201108404. Asha Brown, Paul D. Beer. Porphyrin-functionalised rotaxanes for anion recognition.

Interlocked Host Anion Recognition by an

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Indolocarbazole ...

Colorimetric and fluorescent anion sensors: an overview of recent developments in the use of 1,8-naphthalimide-based chemosensors. Duke RM(1), Veale EB, Pfeffer FM, Kruger PE, Gunnlaugsson T. Author information: (1)School of Chemistry, Centre of Synthesis and Chemical Biology, University of Dublin, Trinity College Dublin, Dublin 2, Ireland.

Colorimetric and fluorescent anion sensors: an overview of ...

Increases in populations have created an increasing demand for food crops while

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increases in demand for biofuels have created an increase in demand for fuel crops. What has not increased is the amount of croplands and their productivity. These and many other factors such as decreasing water resources in a changing climate have created a crisis like situation in global food security. Decision
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