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Frank Davis, Stuart D.
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Anion Sensing by Metal-
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Summary This chapter
contains sections titled:
Introduction
Membrane?Based

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Devices Molecular
Sensors Deprotonation
Versus Anion
Complexation
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Anion recognition
chemistry has grown
from its beginnings in

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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

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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 receptors, molecular ensembles and chemodosimeters. The review highlights the many different

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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

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Stibine–Palladium
Complexes ... First
published: ... Bindung
of the fluoride anion to
the antimony center
induces a change in
density of the
triphosphine unit and
leads to a bright orange
trigonal bipyramidal
8 lantern complex.

Sensing of Aqueous

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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

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the UV-vis spectra in
DMSO upon
recognition of
pyrophosphate and
fluoride.

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

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1st Edition. 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

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complementary linear
'Y-type' H-bonding,
than with the spherical
anions such as the
halides, which would ...

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,

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there is lesser emphasis on side 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

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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 and uses specific reactions between chromogenic

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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

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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).

Anion - an overview |
ScienceDirect Topics
Advances in Anion

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Sensing. Abstract. P1:

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methods for anion nal

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Special issue, dedicated
to the Advances in
Anion sensing Sensing.

Advances in Anion
Sensing, Journal of
Fluorescence | 10 ...

Off-the-shelf,
portable
multianalyte sensing
systems are based on the
ability of
cell-penetrating
peptides (CPPs; see

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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

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Cell?Penetrating
Peptides ...

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Abiotic Guanidinium
Receptors for Anion
Molecular ...

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Brown, Paul D. Beer.
Porphyrin-
functionalised rotaxanes
for anion recognition.

Interlocked Host Anion

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Recognition by an
Indolocarbazole ...

Colorimetric and
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recent developments in
the use of
1,8-naphthalimide-based
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RM(1), Veale EB,
Pfeffer FM, Kruger PE,
Gunnlaugsson T. Author
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Synthesis and Chemical
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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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