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Boronic Acids In Saccharide Recognition

Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field. It also assesses the potential of this innovative approach, outlining future lines of research and possible applications.

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Boronic Acids in Saccharide Recognition by Tony D James

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Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field. It also assesses the potential of this innovative approach, outlining future lines of research and possible applications. Topics include: the molecular recognition of saccharides, the complexation of boronic ...

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Boronic Acids in Saccharide Recognition Details The desire to

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quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods.

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possible applications.

Boronic acids in saccharide recognition (eBook, 2006 ...

Selective recognition of saccharides through morphological changes of phenylboronic acid-based self-assembly system by saccharide stimulation is a key concept in boronic acid design. Experiments In the present study, we designed a tuning-fork-shaped amphiphilic diboronic acid (OPAB-C8) which formed vesicular aggregates through self-assembly in aqueous solution and evaluated its saccharide recognition function.

Self-assembly of intramolecularly hydrogen-bonded ...

In the recognition step, the addition of saccharides led to the conversion of uncharged boronic acid into negatively charged boronate anion ester moieties, and subsequent rectification of the ion current was observed. The saccharide-boronic acid complex onto the channel walls was found to be reversible.

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Saccharide/glycoprotein recognition inside synthetic ion

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Saccharide Recognition by Amphiphilic Diboronic Acids at

...

Boronic acid derivatives have been widely used for the sugar recognition motif, because boronic acids bind adjacent diols to form cyclic boronate esters. In order to develop colorimetric sugar sensors, boronic acid-conjugated azobenzenes have been synthesized.

Colorimetric Sugar Sensing Using Boronic Acid-Substituted ...

The equilibrium established between boronic acids and the hydroxyl groups present on saccharides has been successfully

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employed to develop a range of sensors for saccharides. One of the key advantages with this dynamic covalent strategy lies in the ability of boronic acids to overcome the challenge of binding neutral species in aqueous media.

Boronic acid - Wikipedia

We synthesized novel PET (photoinduced electron transfer)-type fluorescence glucose probe 1 [(4-(anthracen-2-yl-carbamoyl)-3-fluorophenyl)boronic acid], which has a phenylboronic acid (PBA) moiety as the recognition site and anthracene as the fluorescent part. Although the PBA derivatives dissociate and bind with sugar in the basic condition, our new fluorescent probe can recognize sugars in ...

Selective Sugar Recognition by Anthracene-Type Boronic

...

Saccharide recognition : boronic acids as receptors in polymeric

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networks. Saccharide Recognition – Boronic Acids as Receptors in Polymeric Networks. Dissertation zur Erlangung des akademischen Grades „doctor rerum naturalium“ (Dr. rer. nat.) in der Wissenschaftsdisziplin Physikalische Chemie eingereicht an der Mathematisch-Naturwissenschaftlichen Fakultät der Universität Potsdam.

Saccharide recognition : boronic acids as receptors in ...

A new nanomotor-based target isolation strategy, based on a “built-in” recognition capability, is presented. The concept relies on a poly(3-aminophenylboronic acid) (PAPBA)/Ni/Pt microtube engine coupling the selective monosaccharide recognition of the boronic acid-based outer polymeric layer with the catalytic function of the inner platinum layer. The PAPBA-based microrocket is prepared ...

Self-Propelled Carbohydrate-Sensitive Microtransporters

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The reversible covalent interaction of boronic acids with cis-1,2- or 1,3-diols forms very strong binding affinity for saccharides in mM or sub-mM levels. Therefore, an increasing interest has been seen for the use of boronic acid and its derivatives as recognition elements for saccharide detection.

Capacitive Saccharide Sensor Based on Immobilized ...

A novel saccharide host containing four boronic acid recognition units on a single DNA duplex terminus was constructed. This construct allowed boronic acid sugar recognition in the context of double stranded DNA to be established while highlighting the benefits of multivalency.

Chemical Functionalization of Oligodeoxynucleotides with ...

Irene Georgiou, Simon Kervyn, Alexandre Rossignon, Federica De

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Leo, Johan Wouters, Gilles Bruylants, Davide Bonifazi, Versatile Self-Adapting Boronic Acids for H-Bond Recognition: From Discrete to Polymeric Supramolecules, Journal of the American Chemical Society, 10.1021/jacs.6b11362, 139, 7, (2710-2727), (2017).

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