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Boronic Acids In Saccharide Recognition

The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between boronic acids and saccharides. Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field.

Boronic Acids in Saccharide Recognition (RSC Publishing

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Overview. The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between boronic acids and saccharides. Boronic Acids in Saccharide Recognition provides a comprehensive review and

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critical analysis of the current developments in this field.

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 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

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possible applications.

Boronic Acids in Saccharide Recognition | Tony D. James

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Boronic Acids in Saccharide Recognition Details The desire to 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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Boronic Acids in Saccharide Recognition – the University

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Design of Saccharide Recognition Material Based on Boronic Acid Fluorophore/Cyclodextrin Gel. Journal of Ion Exchange 2018, 29 (3) , 126-130. DOI: 10.5182/jaie.29.126. Takeshi HASHIMOTO. Development of Supramolecular and/or Metal-Complex Analytical Reagents Possessing Ion-Exchange or Molecular Recognition Function.

Saccharide Recognition Based on Self-Assembly of ...

Selective recognition of saccharides through morphological

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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.

Saccharide/glycoprotein recognition inside synthetic ion

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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).

Boronic Acids in Molecular Self-Assembly - Fujita - 2008

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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 ...

A boronic acid is a compound related to boric acid in which one

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of the three hydroxyl groups is replaced by an alkyl or aryl group. As a compound containing a carbon-boron bond, members of this class thus belong to the larger class of organoboranes. Boronic acids act as Lewis acids. Their unique feature is that they are capable of forming reversible covalent complexes with sugars, amino acids ...

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

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Saccharide recognition : boronic acids as receptors in polymeric 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 ...

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 ...

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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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