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Supramolecular Chemistry Of Cucurbiturils Tuning

Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative. Zehuan Huang † Ke Qin † Geng Deng ‡ Guanglu Wu § Yunhao Bai † Jiang-Fei Xu † Zhiqiang Wang † Zhiwu Yu ‡ Oren A. Scherman § Xi Zhang * †

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Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative. Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity. with Multiple Noncovalent Interactions from Positive to Negative. Zehuan Huang, †Ke Qin, †Geng Deng, ‡Guanglu Wu, §Yunhao Bai, †Jiang-Fei Xu, †Zhiqiang Wang, †. Zhiwu Yu, ‡Oren A. Scherman, §and Xi Zhang*, †.

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Supramolecular Chemistry of Cucurbiturils: Tuning ...

Supramolecular polymerization is promoted by selective recognition between the p -phenylene group and cucurbit uril (CB), and 2:1 complexation of the naphthalene groups with cucurbit uril (CB). The process can be controlled by tuning the CB content.

Supramolecular Polymerization Promoted and Controlled ...

The potential of cucurbiturils, water-soluble macrocyclic host molecules composed of glycoluril units, for tuning the properties of fluorescent dyes and advancing new applications is illustrated.

Cucurbituril Encapsulation of Fluorescent Dyes ...

Abstract. The host-guest chemistry of cucurbiturils and the photochemistry of azastilbene derivatives are combined for the rationally adjusting multicolor emissions through forming different host-guest complexes and their corresponding photochemical products. Cucurbit [8]uril (CB [8]) can bind with azastilbene derivatives to form supramolecular polymers emitting orange light.

Rational Adjustment of Multicolor Emissions by ...

Cucurbiturils have been used by chemists for various applications, including drug delivery, asymmetric synthesis, molecular switching, and dye tuning. Supramolecular host molecules [edit] Crystal structure of a host-guest complex with a p -xylylenediammonium bound within a cucurbit[6]uril [9]

Cucurbituril - Wikipedia

Pages: 264. By (author): Kimoon Kim (Institute for Basic Science, South Korea & Pohang University of Science and Technology (POSTECH), South Korea); James Murray (Institute for Basic Science, South Korea); Narayanan Selvapalam (Kalasalingam University, India & Pohang University of Science and Technology (POSTECH), South Korea); Young Ho Ko (Institute for Basic Science, South Korea & Pohang ...

Cucurbiturils - World Scientific

Macrocyclic hosts, such as cyclodextrins, calixarenes, cucurbiturils, and pillararenes, exhibit unparalleled advantages in disease diagnosis and therapy over the past years by fully taking advantage of their host-guest molecular recognitions. The dynamic nature of the non-covalent interactions and s ...

Host-Guest Chemistry in Supramolecular Theranostics

Abstract Interacting on all levels : A supramolecular polymer with a high degree of polymerization has been constructed on the basis of multiple host-stabilized charge-transfer interactions (see picture; DADV is a dianthracenyl bis (bipyridinium bromide), CB =cucurbit uril).

Water-Soluble Supramolecular Polymerization Driven by ...

In the wide area of supramolecular chemistry, cucurbit[n]urils (CBn) present themselves as a young family of molecular containers, able to form stable complexes with various guests, including drug molecules, amino acids and peptides, saccharides, dyes, hydrocarbons, perfluorinated hydrocarbons, and even high molecular weight guests such as proteins (e.g., human insulin).

Cucurbiturils: from synthesis to high-affinity binding and ...

Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative Zehuan Huang, Ke Qin, Geng Deng, Guanglu Wu, Yunhao Bai, Jiang-Fei Xu, Zhiqiang Wang, Zhiwu Yu, Oren A. Scherman and Xi Zhang Langmuir, 2016, 32, 12352-12360.

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Cucurbiturils have been used by chemists for various applications, including drug delivery, asymmetric synthesis, molecular switching, and dye tuning. Supramolecular host molecules Crystal structure of a host-guest complex with a p-xylylenediammonium bound within a cucurbit[6]uril reported by Freeman in Acta Crystallogr B , 1984, 382-387.

Cucurbituril

The tremendous development of supramolecular chemistry has provided abundant noncovalent tools and supramolecular scaffolds to boost catalysis process and has led to the emergence of supramolecular catalysis [1, 2, 3, 4].As inspired from enzyme catalysis which has a folded protein pocket to endow specific microenvironment for substrate binding and transition-state stabilization, many cavity ...

Supramolecular Catalysis Using Organic Macrocycles ...

Supramolecular Photochemistry: Cavitand-mediated photocycloaddition of alkenes, Maheh Pattabiraman, Madras Christian College, Chennai, India, July 23, 2017. Controlling photocycloaddition reactions using host-guest chemistry: Development of the cavitand-mediation method, Mahesh Pattabiraman, Inter-American PHotochemical Society, Sarasota, FL, Jan 2-5, 2017.

Mahesh Pattabiraman, Ph.D. | Chemistry | University of ...

Beginning with a chronicled history in the development of the once little-known peculiarity to the forefront of supramolecular chemistry, followed by an in depth look at the preparation, properties and host-guest chemistry, the title showcases the uses of cucurbiturils in chemistry, materials science and biology.

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