

# Supramolecular Chemistry Of Cucurbiturils Tuning

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Mahesh Pattabiraman, Ph.D. | Chemistry | University of ...  
Host-Guest Chemistry in Supramolecular Theranostics  
Supramolecular Chemistry Of Cucurbiturils Tuning

## Cucurbituril - Wikipedia

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]

## Supramolecular Chemistry of Cucurbiturils: Tuning ...

The most recent International Conference on Cucurbiturils (ICCB) was held at Ohio University in Athens, Ohio. The three-day meeting included the latest advancements in the basic and applied science of cucurbiturils and related cavitands, as well as presentations from related areas of supramolecular chemistry.

## Supramolecular Chemistry of Cucurbiturils: Tuning ...

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## Supramolecular Polymerization Promoted and Controlled ...

Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative. Zehuan Huang Author profile

## Supramolecular Chemistry of Cucurbiturils: Tuning ...

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 ...

### **Cucurbit[8]uril-Based Supramolecular Polymers - Liu - 2013 ...**

Key Lab of Organic Optoelectronics and Molecular Engineering, Department of Chemistry, Tsinghua University, Beijing, 100084 (China), Fax: (+86) 10-62771149. ... as a good example of the marriage between the supramolecular chemistry of cucurbiturils and polymer science. ...

### **Supramolecular Chemistry of Cucurbiturils: Tuning ...**

Supramolecular polymerization is promoted by selective recognition between the p-phenylene group and cucurbit [7]uril (CB [7]), and 2:1 complexation of the naphthalene groups with cucurbit [8]uril (CB [8]). The process can be controlled by tuning the CB [7] content.

### **Chapter 1 Introduction to Supramolecular Chemistry**

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 \* †

### **6th International Conference on Cucurbiturils (ICCB2019 ...**

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\*,†.

### **Cucurbiturils - World Scientific**

Introduction to Supramolecular Chemistry 1.1. General Overview This chapter is intended to describe the principles, perspectives, and recent developments in the field of supramolecular chemistry, which has grown exponentially in the last few decades as indicated by the large number of articles, reviews, and books.1-7

### **Cucurbituril Encapsulation of Fluorescent Dyes ...**

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.

### **Supramolecular Chemistry of Cucurbiturils: Tuning ...**

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Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative. 1. Langmuir. 2016 Nov 29;32(47):12352-12360. Epub 2016 Jul 15. Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative.

### **Supramolecular Chemistry of Cucurbiturils: Tuning ...**

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.

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

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 ...

### **Host-Guest Chemistry in Supramolecular Theranostics**

Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Non-Covalent Interactions from Positive to Negative. A 'read' is counted each time someone views a publication summary...

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