Supramolecular Chemistry Of Cucurbiturils Tuning

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Supramolecular Chemistry Of Cucurbiturils Tuning

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,§ and Xi Zhang*,† †Key Laboratory of Organic Optoelectronics & Molecular Engineering, Department of Chemistry and ‡Key

Supporting Information - American Chemical Society
Supramolecular Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Non-covalent 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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Reversibly Tunable White-Light Emissions of ...
Tuning the assembling structures of molecules for developing luminescence-tunable materials is an important research field in supramolecular chemistry7 Several fluorescence-tunable supra-molecular assemblies have been reported, which contain more than one kind of fluorophore,4,8 but using one kind of

Multi-component supramolecular fibers with elastomeric ...
host a complexity of functions and allow for fine-tuning of host–material interactions, as these are cumulated in supramo-lecular materials Advances in supramolecular chemistry have revolutionized the fields of biomaterials with the introduction of life-like complexity, a feature that allows material

to …

CHALLENGES IN ORGANIC MATERIALS AND ...

Cucurbiturils at the Interface between Supramolecular Chemistry and Materials Science Tuning the Self- assembly and Electronic and Properties His research interests include all aspects of supramolecular chemistry and materials science He has received many …

MODULATING MOLECULAR PROPERTIES BY ...

MODULATING MOLECULAR PROPERTIES BY SUPRAMOLECULAR INTERACTIONS S Dutta Choudhury Radiation & Photochemistry Division Dr (Ms) Sharmistha Dutta Choudhury is the recipient of the Young Scientist Award in Chemical Sciences for the year 2009, instituted by the National Academy of Sciences, India Abstract

SUPRAMOLECULAR ANALYTICAL SYSTEMS FOR THE ...

Supramolecular chemistry investigates the interactions of self-assembled systems consisting multiple molecules, often defined as „chemistry beyond the molecule" In sup-ramolecular analytical chemistry, this is applied to analytical sciences, thus creating chemosensors exploiting the molecular recognition ability of these systems

For Peer Review Only - ResearchGate

For Peer Review Only 4 Cucurbiturils are pumpkin shaped, highly symmetrical, and rigid macroc ycles with an extremely non-polarizable (close to gas phase) 25 cavity They are capable of

Cucurbituril Encapsulation of Fluorescent Dyes

Cucurbituril Encapsulation of Fluorescent Dyes Supramolecular Chemistry, Taylor & Francis: STM, Behavioural Science and Public Health Titles, 2007, 19 (01-02), Cucurbituril encapsulation of fluorescent dyes to demonstrate the application potential of cucurbiturils for tuning fluorescent dyes 19

Citethis:Chem. Soc. Rev.2011 0 ,22542266 TUTORIAL REVIEW

his ournal is c The Royal Society of Chemistry 2011 Chem Soc Rev,2011,40,22542266 2255 chemistry2 It is only in recent years that the concepts and achievements in non-covalent interactions developed from supramolecular chemistry have progressively drawn the increasing attention of polymer scientists to be successively

Supramolecular Wearable Sensors

Supramolecular Wearable Sensors Dorothee Wasserberg 1and Pascal Jonkheijm ,* In this issue of Chem, Jang et al report a wearable sensor device for the rapid and sensitive detection of amphetamine-type stimulants in point-of-use conditions The device characteristics benefit from superb supramolecular

Amino acid recognition by fine tuning the association ...

Amino acid recognition by fine tuning the supramolecular analytical chemistry1,2 These systems exploit calixarenes and cucurbiturils Pillar[n]arenes6 are a new class of macrocycles, containing n hydroquinone units linked together in p-position with a meth-ylene bridge In the past years, various applications were

SUMMER STUDENTSHIP PROJECTS 2012-13

Cucurbiturils are widely used in supramolecular chemistry because the cavities have excellent molecular recognition properties More recently, it has been discovered that they can be functionalised on the outside by replacing the C-H groups in the glycouril monomer by a range of

Enhancing effectiveness of capillary electrophoresis as an ...

calixarenes, and cucurbiturils, may induce pK a shifts in both directions and of a diverse magnitude, reaching +15 pH unit for CDs, +24 for calixarenes, and even above +5 units for cucurbiturils [1, 7, 8] However, our current knowledge on these effects is still scarce and limited, and our ability to

Manoni Roberta tesi - unibo.it

supramolecular chemistry, the spin labelling approach and the development of ESR methods applied to paramagnetic systems are described Chapter 2 and 3 are focused on the introduction of radicals in macrocycles as Cucurbiturils and Pillar[n]arenes, due to the interesting binding

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Modulating stiffness with photo-switchable supramolecular ...

reported on dynamically tuning the stiffness of covalent hydro-gels31 COU has been identified as a good guest for macro-cycles such as cyclodextrins and cucurbiturils29,32 However, COU's binding affinity to macrocycles when attached to a polymer backbone and its propensity to form supramolecular,

BARC Newsletter Founder's Day Special Issue

BARC Newsletter Founder's Day Special Issue SUPRAMOLECULAR APPROACH IN TUNING MOLECULAR PROPERTIES: POSSIBLE APPLICATIONS Haridas Pal Radiation & Photochemistry Division Dr Haridas Pal is the recipient of the DAE Homi Bhabha Science & Technology Award for the year 2008 Introduction Supramolecular chemistry is an extensively evolving area