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Cucurbituril - Wikipedia

Supramolecular chemistry refers to the

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area of chemistry concerning chemical systems composed of a discrete number of molecules. The strength of the forces responsible for spatial organization of the system range from weak intermolecular forces, electrostatic charge, or hydrogen bonding to strong covalent bonding, provided that the electronic coupling strength remains

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small relative to the ...

Cucurbiturils and Related Macrocycles
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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

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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.

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Supramolecular Chemistry of
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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

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

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1. Introduction. The interplay between
polymer science and supramolecular

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chemistry leads to the formation of various supramolecular polymeric systems [1]. On the one hand, molecular building blocks can be polymerized into conventional polymers via covalent synthesis, which then self-assemble into supramolecular polymeric systems with controllable structures and functions [2,3].

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Supramolecular chemistry of
cucurbiturils - IOPscience

Supramolecular chemistry has been a rapidly growing field during the last decade, the burst of the activity being influenced by the award of a Nobel Prize in 1987 to three of its pioneers, C. J. Pedersen, D. J. Cram, and J.-M. Lehn.

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Supramolecular chemistry has been defined as chemistry beyond the molecule, the designed chemistry of the intermolecular bond [1-3].

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Chemistry of Cucurbiturils: Tuning Cooperativity with Multiple Noncovalent Interactions from Positive to Negative.

Cucurbiturils - World Scientific
Supramolecular chemistry of cucurbiturils. Ol'ga A Gerasko 1, Denis G Samsonenko 1 and Vladimir P Fedin 1 ©, 2002 Russian Academy of Sciences and

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Turpion Ltd Russian Chemical Reviews,
Volume 71, Number 9

Supramolecular Chemistry - an overview
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Cucurbiturils (CBs) are a young family of molecular containers, able to form stable complexes with various guests, including drug molecules, amino acids and

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peptides, saccharides, dyes, hydrocarbons, perfluorinated hydrocarbons, and proteins. Since the discovery of the first CB, the field has seen tremendous growth with respect to the synthesis of new homologues and derivatives, the discovery ...

Supramolecular polymer chemistry:

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From structural control ...

Tuning Single-Molecule Conductance in Metalloporphyrin-based Wires via Supramolecular Interactions. Albert C. Aragonés. ... This work sets an illustrative example of the use of supramolecular chemistry in the construction of efficient molecular conduits towards the development of

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supramolecular electronics, ...

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Positive to Negative Article in Langmuir
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Tuning Single-Molecule Conductance in
Metalloporphyrin ...

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

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molecular recognitions. The dynamic nature of the non-covalent interactions and s ...

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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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Rational control of the cooperativity of multiple noncovalent interactions often plays an important role in the design and construction of supramolecular self-assemblies and materials, especially in precision supramolecular engineering. However, it still remains a challenge to control the cooperativity of multiple noncovalent interactions through tuning

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the hydrophobic effect.

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The main principles of the design of
supramolecular compounds starting
from organic macrocyclic cavitands, viz.,
cucurbit[n]urils $[C_6H_6N_4O_2]_n$ ($n=5-10$),
are considered. The presence of the

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hydrophobic inner cavity along with polar carbonyl groups forming the cucurbituril portals are responsible for high specificity of

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Multiple Noncovalent Interactions from
Positive to Negative. Huang Z, Qin K,
Deng G, Wu G(1), Bai Y, Xu JF, Wang Z,
Yu Z, Scherman OA(1), Zhang X.

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Supramolecular chemistry - Wikipedia
Pages: 264. By (author): Kimoon Kim
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& Pohang University of Science and
Technology (POSTECH), South Korea);
James Murray (Institute for Basic
Science, South Korea); Narayanan
Selvapalam (Kalasalingam University,

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Host-Guest Chemistry in Supramolecular
Theranostics

Cucurbiturils have been used by
chemists for various applications,

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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]

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