

This article was downloaded by:

On: 29 January 2011

Access details: *Access Details: Free Access*

Publisher *Taylor & Francis*

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



## Supramolecular Chemistry

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713649759>

## Index Abstracts

Online publication date: 06 August 2010

To cite this Article (2010) 'Index Abstracts', *Supramolecular Chemistry*, 22: 9, iii – vii

To link to this Article: DOI: 10.1080/10610278.2010.511130

URL: <http://dx.doi.org/10.1080/10610278.2010.511130>

PLEASE SCROLL DOWN FOR ARTICLE

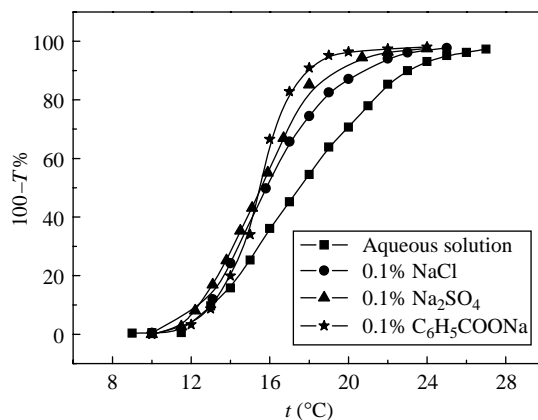
Full terms and conditions of use: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

## Index Abstracts

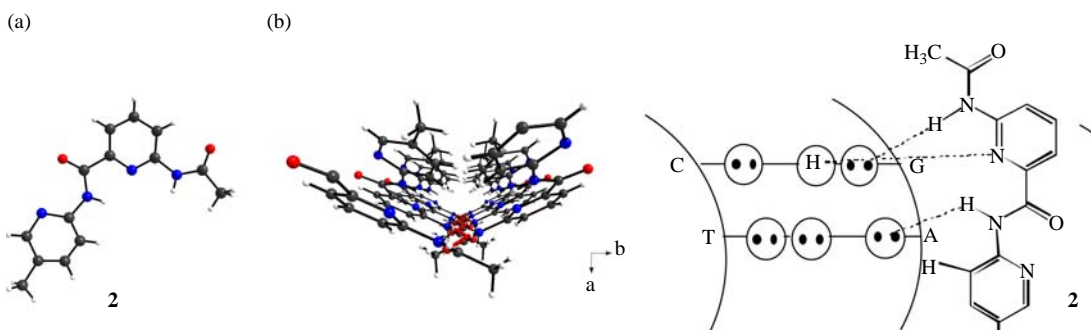
In this study, the pH and salt effects on the aggregation behaviour of polyamidoamine-based star polymer were investigated. As the pH value increases from 2.0 to 10.0, the solution transforms from transparent to turbid at  $pK_a = 5.5$  and eventually presents phase separation at the pH value  $> 7.5$ . The aggregates become bigger with the increase in the pH value or in the presence of salt. The extent of the salt effect on the aggregation behaviour follows the sequence:  $C_6H_5COONa > Na_2SO_4 > NaCl$ .



Hui Yang, Changchao Hu  
Xu Wu, Huibo Chen and  
Jinben Wang

pH and salt effects on the aggregation behaviour of star polymer with G1 polyamidoamine core and terminal amphiphilic blocks

477–482

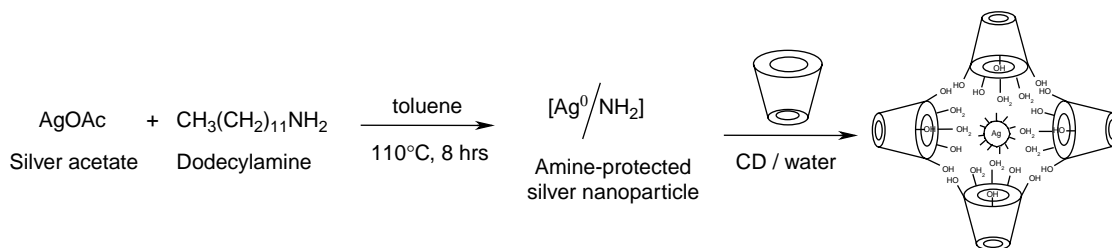


Daniel O. Frimannsson, Thomas McCabe, Wolfgang Schmitt, Mark Lawler and Thorfinnur Gunnlaugsson

Synthesis and crystallographic analysis of short pyridine-based oligoamides as DNA-targeting supramolecular binders

483–490



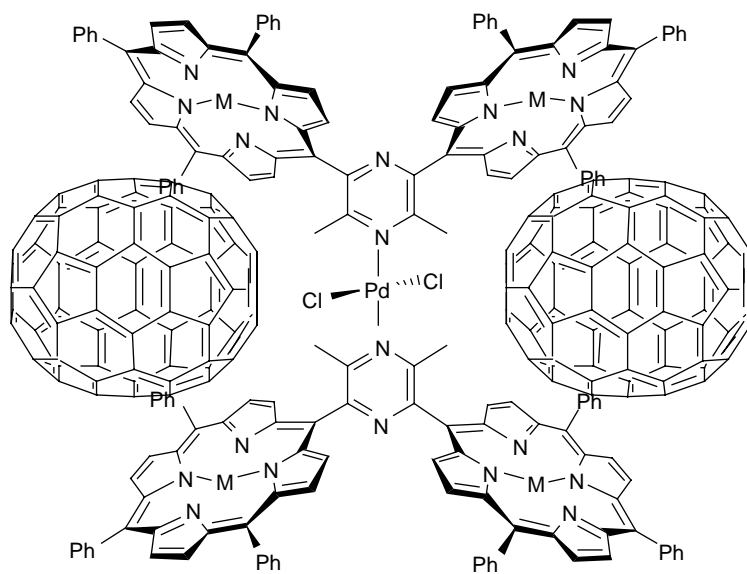


This paper describes a method for the phase transfer of silver nanoparticles from organic to aqueous phase using cyclodextrin and its antibacterial activity.

Cincy George, Sunny Kuriakose, B. Prakashkumar and Tessymol Mathew

Synthesis, characterisation and antibacterial applications of water-soluble, silver nanoparticle-encapsulated  $\beta$ -cyclodextrin

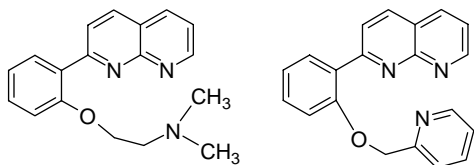
511–516



Yusaku Eda, Kennosuke Itoh, Yoshio N. Ito, Mamoru Fujitsuka, Tetsuro Majima and Toshio Kawato

Synthesis and properties of fullerene ( $\text{C}_{70}$ ) complexes of 2,6-bis(porphyrin)-substituted pyrazine derivatives bound to a Pd(II) ion

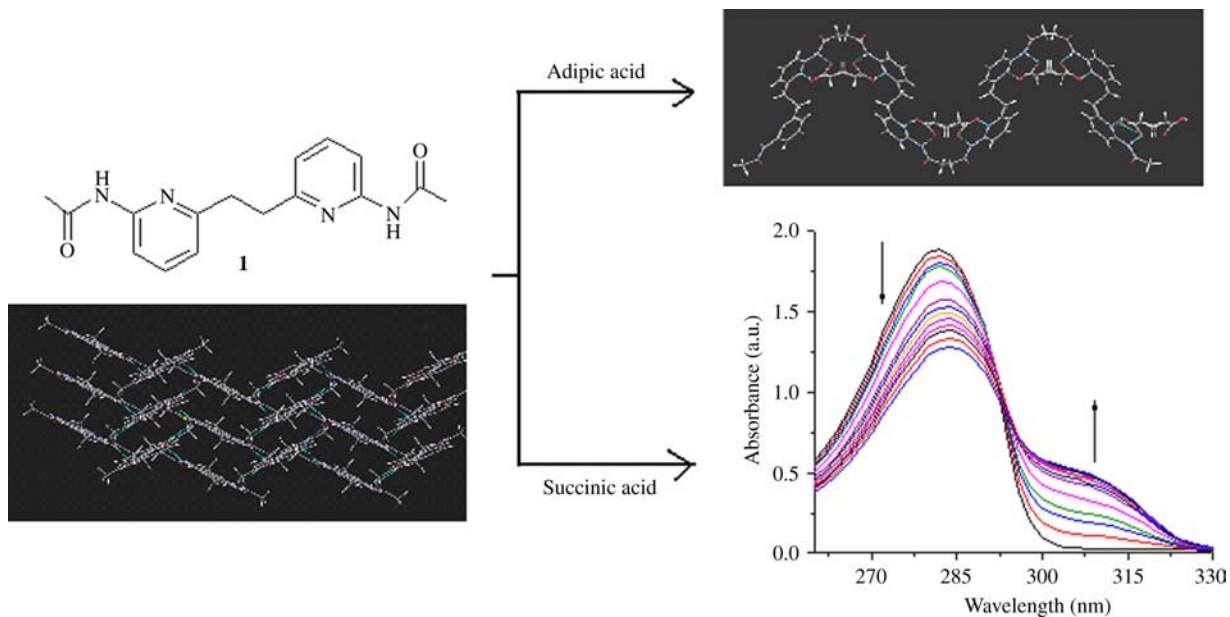
517–523



Sabir H. Mashraqui, Rupesh Betkar, Mukesh Chandiramani, Kiran Poonia, David Quinero and Antonio Frontera

New 1,8-naphthyridine-based probes for the selective fluorescence signalling of toxic cadmium: synthesis, photophysical studies and molecular modelling

524–531

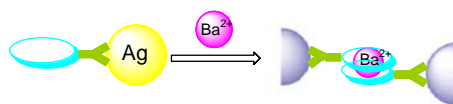
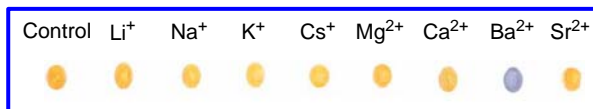


Shyamaprosad Goswami, Nirmal Kumar Das, Debabrata Sen and Hoong-Kun Fun

Ethylene spacer-linked *bis*-acetamidopyridine for dicarboxylic acid recognition and polymeric new wave-like *anti-perpendicular* arrangement of a host–guest in the solid state

532–543

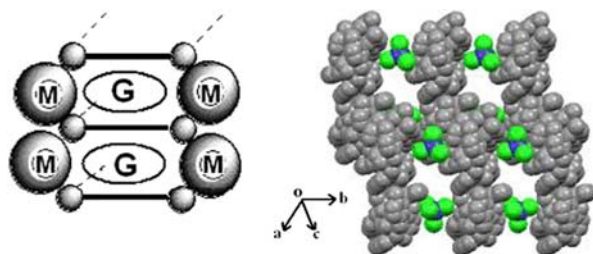
In this paper, aza-crown ether (ACE)-modified Ag NPs have been synthesised by the dithiocarbamate technology. Moreover, ACE-Ag NPs have a good recognition for Ba<sup>2+</sup>. The possible mechanism is ACE that comes from the surface of Ag NPs which can form a sandwich structure with barium cations.



Haibing Li, Liang Zhang, Yao Yao, Cuiping Han and Shan Jin

Synthesis of aza-crown ether-modified silver nanoparticles as colorimetric sensors for Ba<sup>2+</sup>

544–547

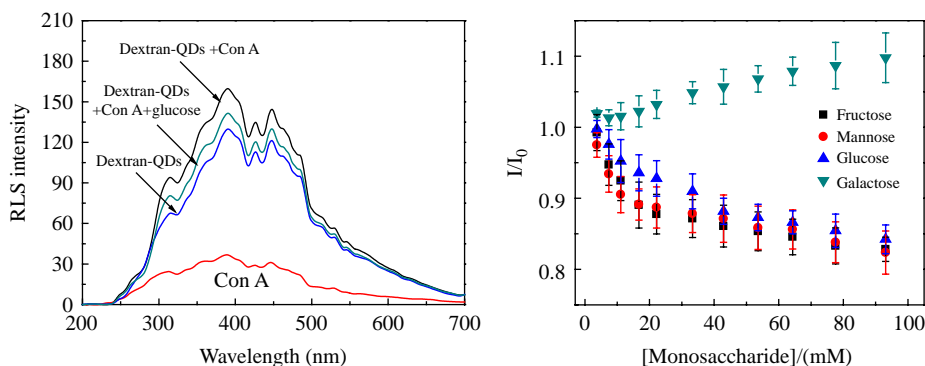


We have presented herein the utilisation of a second-sphere coordination approach to construct supramolecular inclusion solids with a variety of guest molecules. A novel type of a pillared double-layered host framework was constructed by a second-sphere coordination between the anion-directed ligand (**L1** = *N,N,N',N'*-tetra-*p*-methylbenzyl-ethylenediamine) and  $[\text{CoCl}_4]^{2-}$  through weak C—H...Cl hydrogen-bonding interaction, and a variety of guest molecules, such as *p*-anisaldehyde, 1,4-dimethoxy-2,5-bis(methoxymethyl)benzene, can be included, leading to the formation of supramolecular inclusion solids:  $[\text{L1}] \cdot 4[\text{H}]^+ \cdot [\text{CoCl}_4]^{2-} \cdot 2\text{Cl}^- \cdot 1.5[\text{C}_8\text{H}_8\text{O}_2] \cdot 0.25[\text{CH}_3\text{OH}]$  (**1**) and  $[\text{L1}] \cdot 4[\text{H}]^+ \cdot [\text{CoCl}_4]^{2-} \cdot 2\text{Cl}^- \cdot 1.5[\text{C}_{12}\text{H}_{20}\text{O}_4] \cdot 0.5[\text{CH}_3\text{OH}]$  (**2**)

Fang Guo, Fang Xia, Na Lu, Jian Tong and Wen-sheng Guo

Supramolecular inclusion of a pillared double-layered host by an anion-directed second-sphere coordination

548–553



A resonance light-scattering (RLS) detection method for saccharides was developed using dextran-coated CdSe quantum dots (dextran-CdSe-QDs) optical probes. The dextran-CdSe-QDs were coupled to concanavalin A (Con A) to facilitate the aggregation of nanoparticles. The presence of glucose competitively binds with Con A, dissociating the Con A/dextran-CdSe-QDs complexes affording the RLS intensity change and hence determining glucose in the range from a few millimolar to about 90 mM. The proposed method was applied to the determination of glucose in human serum samples with satisfactory results.

Shuang Hu, Zhuo Bin Shang, Yu Wang and Wei Jun Jin

Dextran-coated CdSe quantum dots for the optical detection of monosaccharides by resonance light-scattering technique

554–561