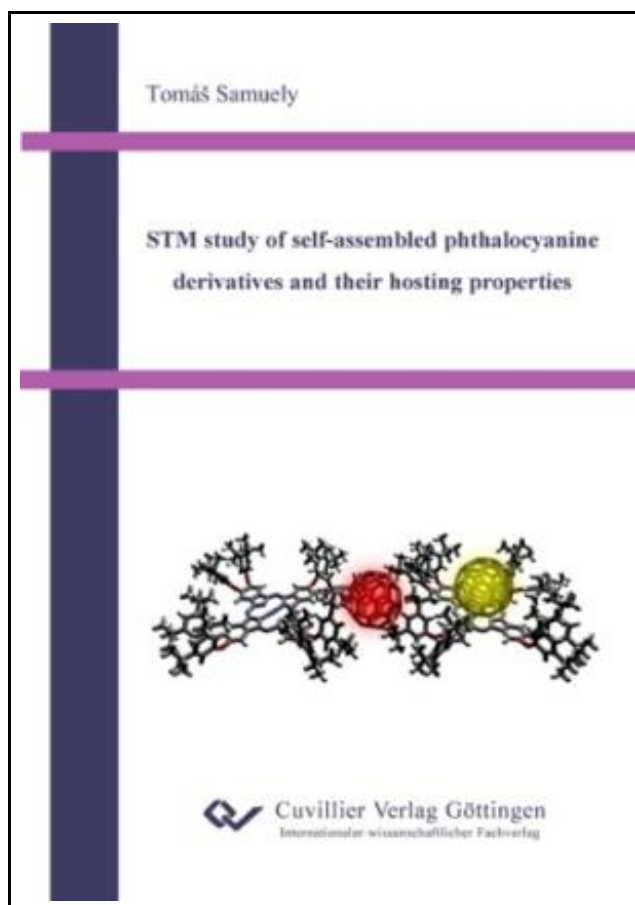


STM study of self-assembled phthalocyanine derivatives and their hosting properties



Filesize: 2.79 MB

Reviews

*Great e book and helpful one. It really is written in straightforward terms and not hard to understand.
You can expect to like how the blogger writes this book.
(Hudson Christiansen)*

STM STUDY OF SELF-ASSEMBLED PHTHALOCYANINE DERIVATIVES AND THEIR HOSTING PROPERTIES



Cuvillier Verlag Dez 2008, 2008. Taschenbuch. Book Condition: Neu. 208x144x12 mm. Neuware - Molecular self-assembly, as a most studied case of self-assembly, is one of the few practical strategies for making ensembles of nano- and micro structures. As an essential aspect of the bottom-up approach, it is attractive for both scientific research and technological applications. Therefore a detailed understanding of the molecule-substrate and intermolecular interactions involved in the self-assembly process is of great interest. In the first part of the thesis, the influence of the phenoxy substituents on the self-assembly of Pcs on (111)-oriented noble metal surfaces is described. The rotational degrees of freedom, characteristic for these substituents enable the formation of various stable and transient phases and allow the substituents to be arranged above the plane of the Pc core, forming a bowl-like structure, which in turn enables the interaction of the Pc core with the metal substrate. The proximity of the Pc core to the metal substrate together with the steric entanglement between neighboring substituents causes significant retardation of the thermodynamic optimization of the conformations. This accounts for the coexistence of some of the phases. In the second part, the influence of replacing two adjacent phenoxy substituents by a rigid tetraazatriphenylene substituent on the self-assembly of Pcs is analyzed and compared to the self-assembly of the above mentioned phenoxy substituted Pcs. The rigid substituent enhances the rotational degrees of freedom of the neighboring phenoxy substituents, hence facilitates their conformational optimization. As a result, novel interactions between the Pc derivatives are enabled and the formation of ordered phases with higher surface densities compared to the previous study is observed. In the third part, the hosting properties of a close-packed layer of phenoxy substituted Pc derivatives adsorbed on Ag(111) are investigated for the adsorption of C60 molecules. The C60 molecules...



Read STM study of self-assembled phthalocyanine derivatives and their hosting properties Online



Download PDF STM study of self-assembled phthalocyanine derivatives and their hosting properties

Related Books



To Thine Own Self

Dog Ear Publishing, United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Carefree and self assured Carolyn loves her life. Her uncle runs...

[Download eBook »](#)



Self Esteem for Women: 10 Principles for Building Self Confidence and How to Be Happy in Life (Free Living, Happy Life, Overcoming Fear, Beauty Secrets, Self Concept)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Self Esteem for Women 10 Principles for building self confidence and how to...

[Download eBook »](#)



Genuine] teachers in self-cultivation Books --- the pursue the education of Wutuobangbao into in J57(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2012-05-01 Pages: 212 Publisher: Jilin Publishing Title: teachers' self-cultivation Books ---...

[Download eBook »](#)



Plants vs. Zombies game book - to play the stickers 2 (puzzle game swept the world. most played together(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: Unknown Pages: 28 in Publisher: China Children Press List Price: 13.00...

[Download eBook »](#)



Child self-awareness sensitive period picture books: I do not! I do not! (Selling 40 years. fun and effective(Chinese Edition)

Hardcover. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.HardCover. Pub Date: Unknown Pages: full eight Publisher: Nova Press Information Original Price: 118.00...

[Download eBook »](#)