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

By Tomas Samuely

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 ôbottom-upö approach, it is attractive for both scientific research and technological applications. Therefore a detailed understanding of the moleculesubstrate 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 selfassembly 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...

READ ONLINE
[5.17 MB]

Reviews

Related PDFs

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...

Learn the Nautical Rules of the Road: An Expert Guide to the COLREGs for All Yachtsmen and Mariners

Fernhurst Books Limited. Paperback. Book Condition: new. BRAND NEW, Learn the Nautical Rules of the Road: An Expert Guide to the COLREGs for All Yachtsmen and Mariners, Paul B. Boissier, Expert information for yachtsmen and professional mariners. This is the ideal book...

Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...

Cool Cars: Set 12: Non-Fiction

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Cool Cars: Set 12: Non-Fiction, Emma Lynch, This title is part of Phonics Bug - the first Phonics programme to bring together research-based teaching methods with 100% decodable books, CBeebies video, and an...

Fantastic Fish: Set 12: Non-Fiction

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Fantastic Fish: Set 12: Non-Fiction, Emma Lynch, This title is part of Phonics Bug - the first Phonics programme to bring together research-based teaching methods with 100% decodable books, CBeebies video, and an...