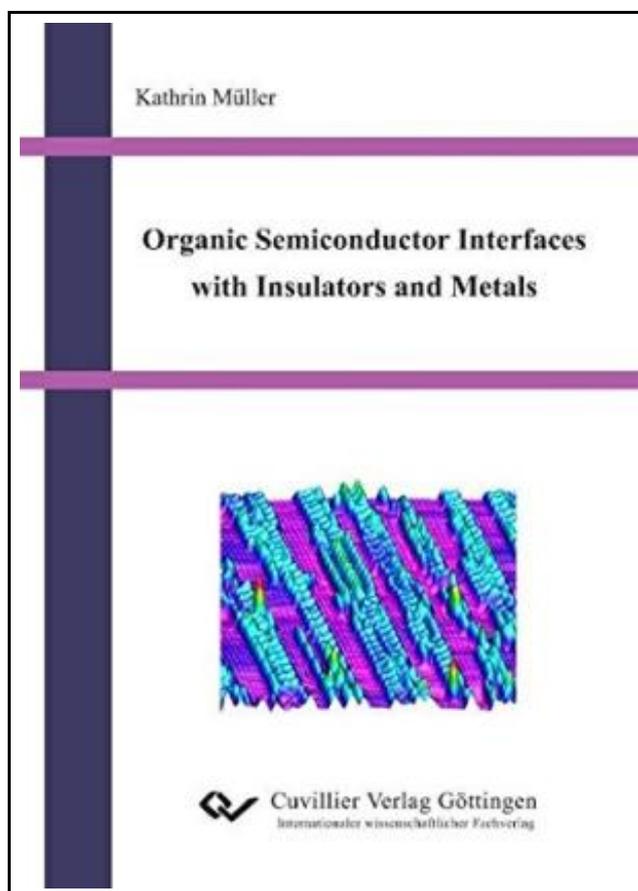


Organic Semiconductor Interfaces with Insulators and Metals



Filesize: 9.69 MB

Reviews

*Thorough information for publication lovers. it was actually writtern extremely properly and useful. I found out this publication from my i and dad suggested this book to learn.
(Dr. Garnett McLaughlin II)*

ORGANIC SEMICONDUCTOR INTERFACES WITH INSULATORS AND METALS



To save **Organic Semiconductor Interfaces with Insulators and Metals** PDF, you should click the web link listed below and download the file or have access to other information which might be highly relevant to **ORGANIC SEMICONDUCTOR INTERFACES WITH INSULATORS AND METALS** book.

Cuvillier Verlag Okt 2009, 2009. Taschenbuch. Book Condition: Neu. 211x147x15 mm. Neuware - The electronic interactions of self-assembled organic semiconductors with metals, metal-oxides and ultrathin insulator surfaces have been investigated by complementary analysis techniques comprising scanning tunnelling microscopy and spectroscopy, low energy electron diffraction, x-ray photoelectron spectroscopy and ultraviolet photoelectron spectroscopy. Two model systems have been chosen and investigated: The first model system comprises the electronic interactions and the self-assembly of pentacene molecules on the Cu(110) as well as on the oxidized Cu(110) surface. In a second model system the interface of octa-ethyl porphyrins with ultrathin insulator films and metals has been investigated. The adsorption of molecules on insulator surfaces is especially interesting due to the strong reduction of the electronic and chemical interactions between the molecules and the substrate. The investigation of pentacene on the Cu(110) surface revealed a multi-phase behaviour, which is characterized by molecular bending, molecular mobility, different relative orientation of the molecules and different packing densities. Furthermore, the influence of the adsorbate layer on the Shockley surface state of the Cu(110) has been investigated. A complex interplay of different phenomena, like Pauli repulsion, charge transfer, mixing and hybridization of electronic states as well as the polarization of the organic adsorbate in the surface dipolar field, lead to a shift of the surface state to higher binding energies. Additionally, the occupation of the surface state is increased for the adsorption of one monolayer of pentacene. This particular behaviour has not been reported for any other molecular/metal system so far. The adsorption of pentacene on the oxidized Cu(110) surface reveals that the electronic interactions and the surface corrugation determine the self-assembly of the molecular ad-layer. The second project in this thesis comprises the electronic interactions of porphyrin molecules, another representative of molecular semiconductors, with ultrathin insulator layers. The...



[Read Organic Semiconductor Interfaces with Insulators and Metals Online](#)



[Download PDF Organic Semiconductor Interfaces with Insulators and Metals](#)



[Download ePUB Organic Semiconductor Interfaces with Insulators and Metals](#)

Other eBooks



[PDF] Depression: Cognitive Behaviour Therapy with Children and Young People

Click the hyperlink beneath to get "Depression: Cognitive Behaviour Therapy with Children and Young People" file.

[Read Document »](#)



[PDF] Abraham Lincoln for Kids: His Life and Times with 21 Activities

Click the hyperlink beneath to get "Abraham Lincoln for Kids: His Life and Times with 21 Activities" file.

[Read Document »](#)



[PDF] Learning with Curious George Preschool Math

Click the hyperlink beneath to get "Learning with Curious George Preschool Math" file.

[Read Document »](#)



[PDF] Learning with Curious George Preschool Reading

Click the hyperlink beneath to get "Learning with Curious George Preschool Reading" file.

[Read Document »](#)



[PDF] Ready, Set, Preschool! : Stories, Poems and Picture Games with an Educational Guide for Parents

Click the hyperlink beneath to get "Ready, Set, Preschool! : Stories, Poems and Picture Games with an Educational Guide for Parents" file.

[Read Document »](#)



[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Click the hyperlink beneath to get "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" file.

[Read Document »](#)



[PDF] Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2
Access the link under to download and read "Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2" PDF document.

[Download PDF »](#)



[PDF] Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Access the link under to download and read "Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)" PDF document.

[Download PDF »](#)



[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Backpack (Hardback)

Access the link under to download and read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Backpack (Hardback)" PDF document.

[Download PDF »](#)



[PDF] Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2

Access the link under to download and read "Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2" PDF document.

[Download PDF »](#)



[PDF] The Three Little Pigs - Read it Yourself with Ladybird: Level 2

Access the link under to download and read "The Three Little Pigs - Read it Yourself with Ladybird: Level 2" PDF document.

[Download PDF »](#)



[PDF] Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2

Access the link under to download and read "Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2" PDF document.

[Download PDF »](#)