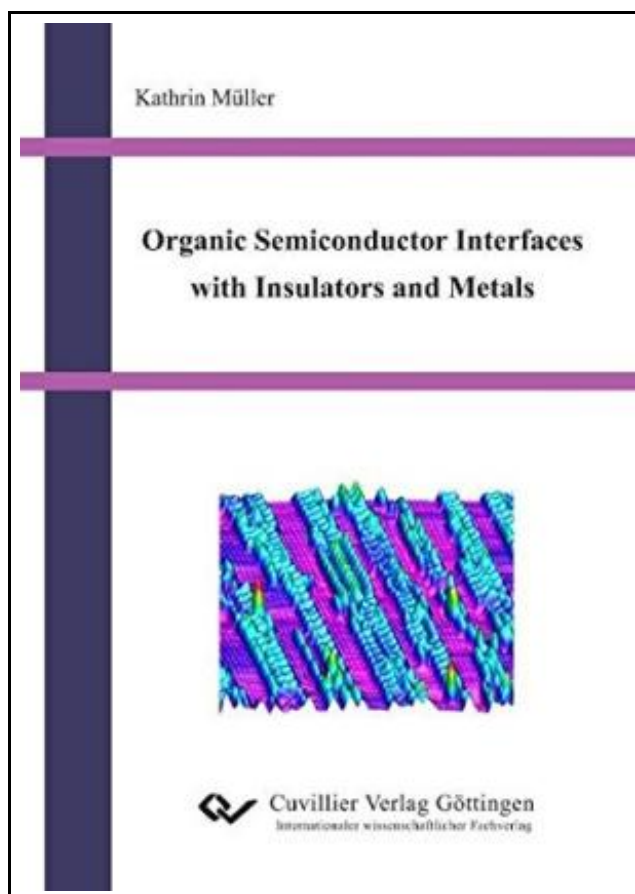


Organic Semiconductor Interfaces with Insulators and Metals



Filesize: 6 MB

Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)

ORGANIC SEMICONDUCTOR INTERFACES WITH INSULATORS AND METALS



To save **Organic Semiconductor Interfaces with Insulators and Metals** eBook, make sure you access the web link beneath and download the ebook or gain access to additional information that are relevant to ORGANIC SEMICONDUCTOR INTERFACES WITH INSULATORS AND METALS ebook.

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](#)

Other Kindle Books



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

Access the hyperlink beneath to download and read "Depression: Cognitive Behaviour Therapy with Children and Young People" PDF file.

[Download Book »](#)



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

Access the hyperlink beneath to download and read "Abraham Lincoln for Kids: His Life and Times with 21 Activities" PDF file.

[Download Book »](#)



[PDF] Learning with Curious George Preschool Math

Access the hyperlink beneath to download and read "Learning with Curious George Preschool Math" PDF file.

[Download Book »](#)



[PDF] Learning with Curious George Preschool Reading

Access the hyperlink beneath to download and read "Learning with Curious George Preschool Reading" PDF file.

[Download Book »](#)



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

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

[Download Book »](#)



[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

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

[Download Book »](#)