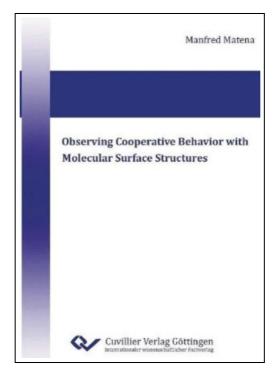
Observing Cooperative Behavior with Molecular Surface Structures



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Reviews

Simply no phrases to explain. It is definitely simplistic but shocks from the fifty percent from the pdf. You may like the way the blogger write this ebook.

(Antonetta Tremblay)

OBSERVING COOPERATIVE BEHAVIOR WITH MOLECULAR SURFACE STRUCTURES



Cuvillier Verlag Dez 2009, 2009. Taschenbuch. Condition: Neu. Neuware - In the work at hand the interplay between molecules as well as molecules and substrate is studied in ultrahigh vacuum (UHV).In Chapter 3 hydrogen-bond (H-bond) recognition, which is based on an H-bonding motif wellknown in supramolecular chemistry, is investigated on Ag(111) for a three component system. Moreover, for one of the molecules a thermally induced phase transition from a porous network to a close-packed structure is found. Scanning tunneling microscopy (STM) and low energy electron diffraction (LEED) show that both surface structures exhibit long-range order and are commensurate with the Ag-substrate. In particular, this transition involves a conformational change of each molecule that is not observed in solution. Chapter 4 deals with the study of intermolecular interactions of the perylene derivative 1,3,8,10-tetraazaperopyrene (TAPP) on Cu(111). Different surface structures are observed which exhibit different types of intermolecular interactions. Surface structures formed by TAPP molecules interacting via weak van-der-Waals forces are transformed into a long-range-ordered porous network upon annealing. For this network, which is commensurate to the substrate, the intermolecular interactions are based on the coordination of Cu-adatoms to the N-atoms of TAPP. Upon further annealing covalent C-C couplings between TAPP molecules result in the formation of chains. X-ray photoelectron spectroscopy (XPS) and computational studies using density functional theory (DFT) show that the N-atoms of the chains can coordinate to Cu-adatoms as well. Moreover, in a preliminary study the attempt was undertaken to create polymerized structures in two dimensions. However, the formation of ordered structures is a challenging task since selfcorrection that is inherent to weak reversible interactions is missing. The molecule-surface interaction of a long-range-ordered porous network formed by the perylene derivative 4,9-diaminoperylene-quinone-3,10-diimine (DPDI) on Cu(111) is studied in Chapter 5. This network whose molecular building-blocks interact via H-bonds exhibits an extraordinary stability....



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