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Organized Monolayers and Assemblies: Structure, Processes and Function (Volume 16) (Studies in Interface Science (Volume 16)) 1st Edition by Dietmar Mobius (Editor), Reinhard Miller (Editor)

Organized Monolayers and Assemblies: Structure, Processes ...

Organized monolayers and monolayer assemblies as potential components of molecular devices - Canadian Journal of Physics The assembly of molecules to functional units and their interconnection in molecular dimensions to achieve processes like sensing, signal storage and processing, or catalysis of particular reaction...

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Citation NASA/ADS. Organized monolayers and monolayer assemblies as potential components of molecular devices Möbius, Dietmar; Abstract. Not Available . Publication: Canadian Journal of Physics. Pub Date: 1990 DOI: 10.1139/p90-141 Bibcode: 1990CajPh..68..992M ...

Organized monolayers and monolayer assemblies as potential ...

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Volume 16. Organized Monolayers and Assemblies: Structure, Processes and Function Published: 20th November 2002 Series Volume Editors: Dietmar Mobius Reinhard Miller

Book Series: Studies in Interface Science

Compatibility of ω -Functionality in the Electrochemically Directed Self-Assembly of Monolayers on Gold from Alkyl Thiosulfates. Langmuir 2010, 26 (12) , 9497-9505. DOI: 10.1021/la100048u. Hiromi Kitano,

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Hisatomo Suzuki, Kazuhiro Matsuura and Kohji Ohno .

Spontaneously organized molecular assemblies. 3 ...

such adsorbed monolayers and of Langmuir-Blodgett monolayers deposited on solid supports from the water-air interface. We have found that oleophobic monolayers containing more than one component (mixed monolayers) can also be produced 0002-7863/80/ 1502-0092\$01 .00/O by adsorption from organic solutions. The incorporation of dyes

Organized Monolayers by Adsorption, I. Formation on Solid ...

Self-Assembled Bilayers as an Anchoring Strategy: Catalysts, Chromophores, and Chromophore-Catalyst Assemblies. Journal of the American Chemical Society 2019, 141 (20) , 8020-8024. DOI: 10.1021/jacs.9b01044.

Formation and Structure of Self-

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Assembled Monolayers ...

Technology portal. v. t. e. Self-assembled monolayers (SAM) of organic molecules are molecular assemblies formed spontaneously on surfaces by adsorption and are organized into more or less large ordered domains. In some cases molecules that form the monolayer do not interact strongly with the substrate.

Self-assembled monolayer - Wikipedia

These monolayers are manipulated, organized assemblies are constructed, and molecular functional units are realized. ' On leave of absence from: Departamento de Qmrmica Fica y Termodinmica Aplicada, Pacultad de Ciencias, Avda. San Alberto Magno s/n, 14004 Cordoba, Spain.

Enhanced binding of porphyrin by a laterally organized ...

Interactions of evaporated copper with the methyl terminated surfaces of

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self-assembled monolayers of arachidic acid were studied with x-ray photoelectron spectroscopy (XPS). The arachidic acid [CH₃(CH₂)₁₉COOH] organized molecular assemblies (OMAs) were self-assembled on native oxide grown on freshly prepared 200 nm thick aluminum films on single crystal silicon wafers.

X-ray photoelectron spectroscopy analysis of the copper ...

This paper describes the ordering degree of anionic, cationic, and zwitterionic surfactants with the increase of their packing density on Ge substrate by using Fourier transform infrared-attenuated total reflection (FTIR-ATR) spectroscopy. This work shows new insights on the conformational order of sodium dodecyl sulfate (SDS), N-hexadecyl-N,N-dimethyl-3-ammonio-1-propane-sulfonate (HPS ...

Infrared Spectroscopy of Anionic, Cationic, and ...

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The surfactant solutions solubilized the otherwise water-insoluble alkanethiols, which self-assembled on gold to form organized assemblies very similar to those prepared using the conventional procedures, i.e., exposure of the gold surface to a nonaqueous solution of the alkanethiol.

Preparation of self-assembled monolayers from micellar ...

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Department of Chemistry and the Fredrick Seitz Materials Research Laboratory, University of Illinois–Urbana–Champaign, Urbana, Illinois 61801 and Department of Chemistry ...

Self assembled monolayers - LinkedIn SlideShare

Self assembled monolayers (SAMs) are surfaces consisting of a single layer of molecules on a substrate. Rather than having to use a technique such as

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chemical vapor deposition or molecular beam epitaxy to add molecules to a surface (often with poor control over the thickness of the molecular layer), self assembled monolayers can be prepared simply by adding a solution of the desired molecule ...

Self-assembled monolayer

INTRODUCTION. Supramolecular assemblies formed via the collective effects of weak physical interactions (e.g. van der Waals and hydrogen bonds) underlie a range of soft materials that are exquisitely sensitive to chemical stimuli and external fields. 1-5 When supramolecular assemblies exhibit long-range orientational ordering, such as seen within liquid crystalline phases, molecular details ...

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