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A Multicomponent System by Chemical Transformation: 4,4'-biphenyl-dicarboxylic Acid on Ag(001)

Molecular self-assembly is an atomically precise approach for the fabrication of organic layers with tailored functionality. We present multi-component molecular phases of 4,4'-biphenyl dicarboxylic acid self-assembled on Ag(001) and their transformations for sub-monolayer and full monolayer coverages are followed by LEEM, STM, and XPS. Specific mixtures of intact, partially-, and fully dehydrogenated molecules are associated with k-uniform tilings.

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