Wiley InterScience :: Hot Topics :: Surfaces and Interfaces

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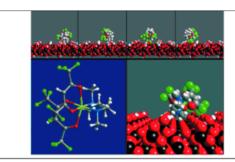
4 nm

2 nm

assembly/reassembly process in octadecyl guanine (G) monolayers was triggered by addition of [2.2.2]cryptand, potassium picrate ($K^+(pic)^-$), and trifluoromethanesulfonic acid. The resulting structures, which alternate between a hydrogen-bonded G ribbon and a G quartet, were monitored by STM at the solid–liquid interface on graphite (see picture).

Angew. Chem Int. Ed. 2010, 49, No. 11, 1963-1966

Ettore Fois, Gloria Tabacchi, Davide Barreca, Alberto Gasparotto, Eugenio Tondello "Hot" Surface Activation of Molecular Complexes: Insight from Modeling Studies [Communication]



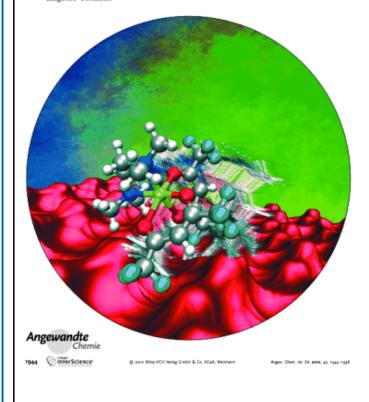
Communications

Surface Chemistry

DOI: 10.1002/anie.20090731

"Hot" Surface Activation of Molecular Complexes: Insight from Modeling Studies**

Ettore Fois, Gloria Tabacchi,* Davide Barreca, Alberto Gasparotto, and Eugenio Tondello



Rock-and-roll over hot floors:

Theoretical modeling of the first activation stages of a Cu complex (see picture) on top of a heated surface (750 K) revealed two mobility regimes, a slow "bumpand-rock" diffusion over the surface and a fast "roll-and-go" motion accompanied bysignificant temperature-induced bond oscillations. This study enables a deeper insight into "hot" surface molecular activation processes.

<u>Angew. Chem Int.</u> <u>Ed. **2010**, 49, No. 11, 1944-1948</u>



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