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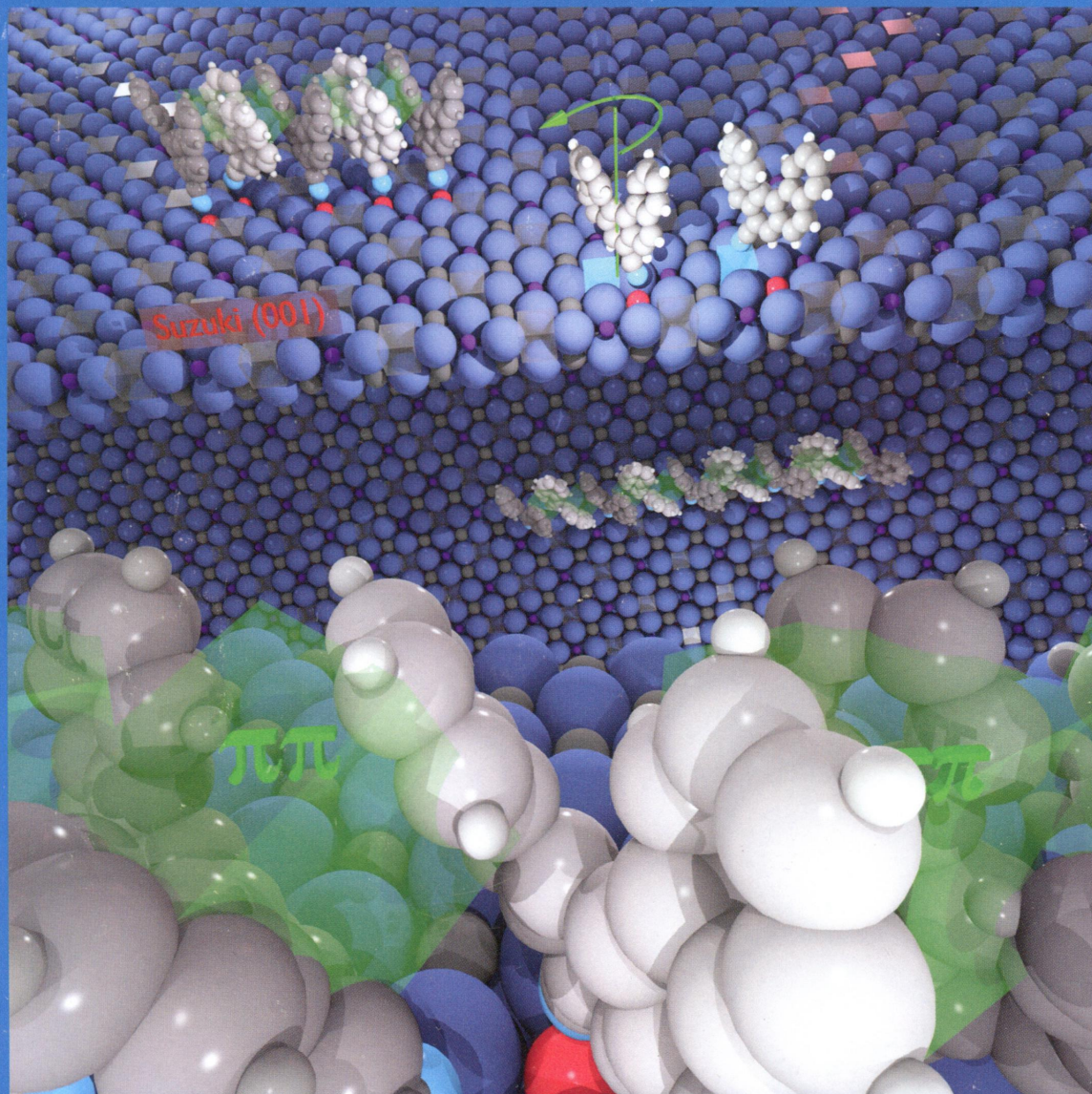
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C



Adsorption and
Self-Assembly of
Functionalized
[5]Helicene Molecules
on the NaCl
Suzuki (001) Surface
(see page 14569)

ENERGY CONVERSION AND STORAGE, OPTICAL AND ELECTRONIC DEVICES,
INTERFACES, NANOMATERIALS, AND HARD MATTER



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ON THE COVER: Adsorption and self-assembly of functionalized [5]helicene molecules on the NaCl Suzuki (001) surface. Brominated and cyanated pentahelicene molecules adsorb via a charge matching between their negative polar groups (bromine and cyano) and the cations of the (001) Suzuki surface of Cd-doped NaCl. Thanks to the particular adsorption geometry the molecules can self-assemble into molecular rows via π - π stacking. The work gives detailed insights into the adsorption and self-assembly of polar molecules in general. It was accomplished by noncontact AFM in ultrahigh vacuum, assisted by density functional theory. The artwork was created by Clemens Barth with the help of Blender (www.blender.org) and the Atomic Blender add-ons. See page 14569.

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