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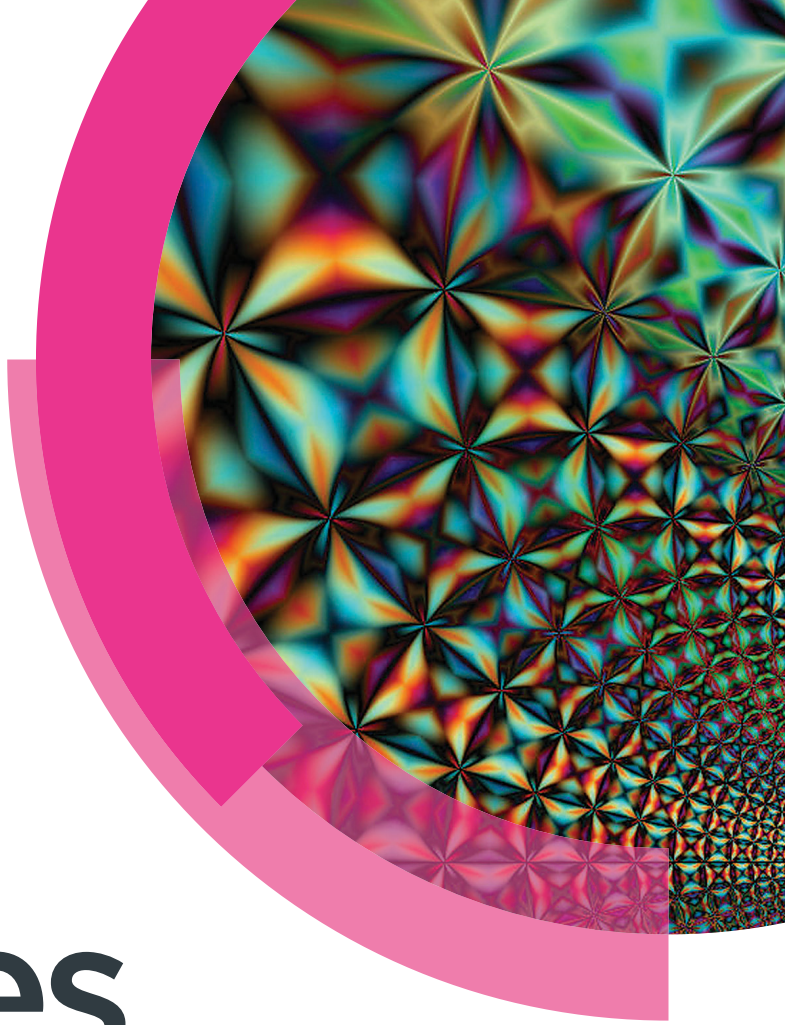

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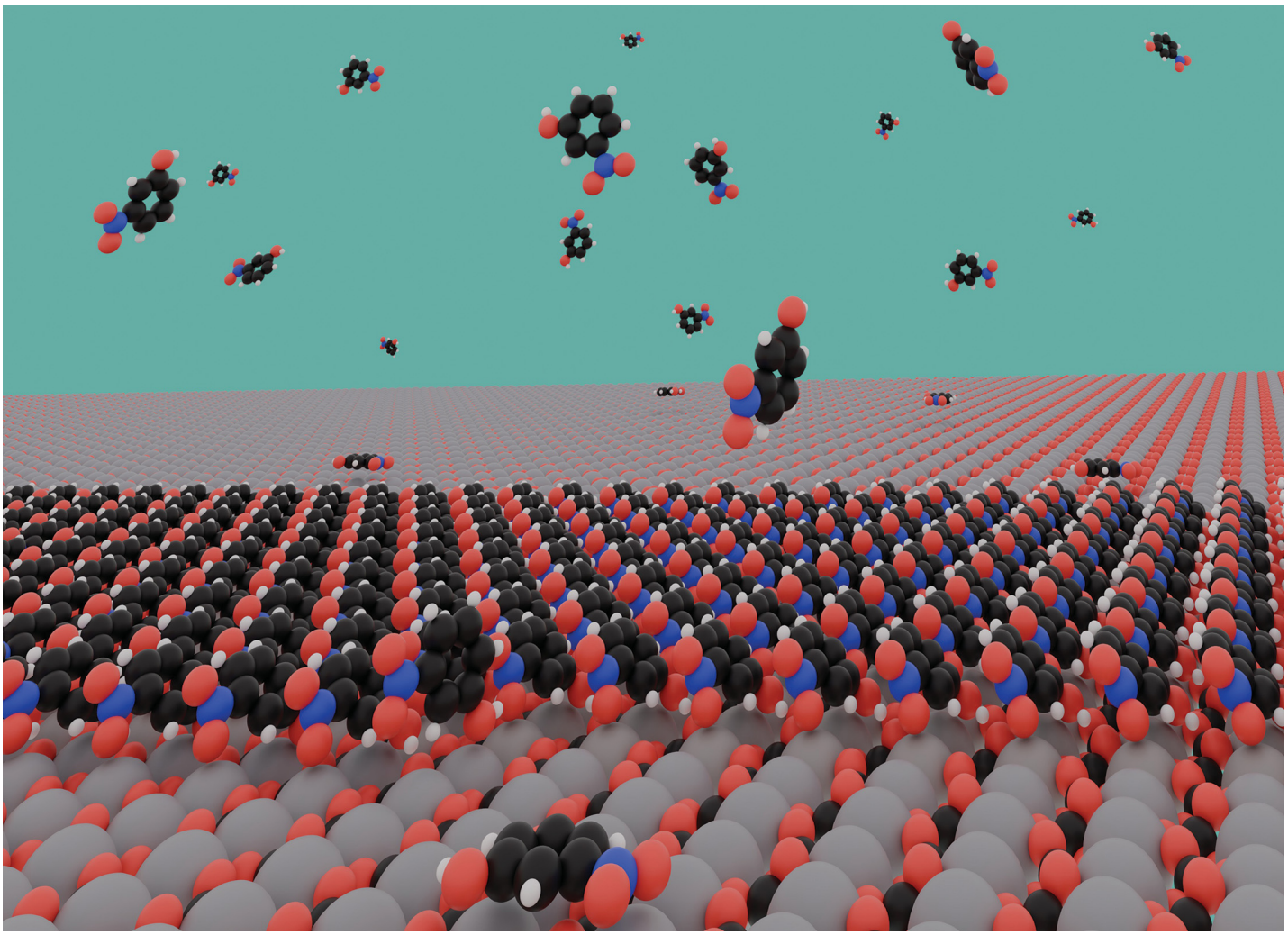

Showcasing research from the group of Professor Angelika Kühnle, Physical Chemistry, Bielefeld University, Germany

Impact of long-range attraction on desorption kinetics

The Kühnle group explores dynamics and structure formation of molecules on surfaces, including molecular self-assembly and on-surface synthesis. An important aspect is elucidating fundamental processes at surfaces and interfaces of dielectric materials. The latter includes molecular desorption from surfaces kept in ultra-high vacuum.

In the current publication, the group presents atomic-force microscopy images tracking the isothermal desorption process of 3-nitrophenol from calcite. Interestingly, two distinctly different desorption regimes are observed. This phenomenon can be understood in the light of a long-range attraction between the molecules.

As featured in:

See Florian Schneider, Angelika Kühnle *et al.*, *Phys. Chem. Chem. Phys.*, 2024, **26**, 12282.

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