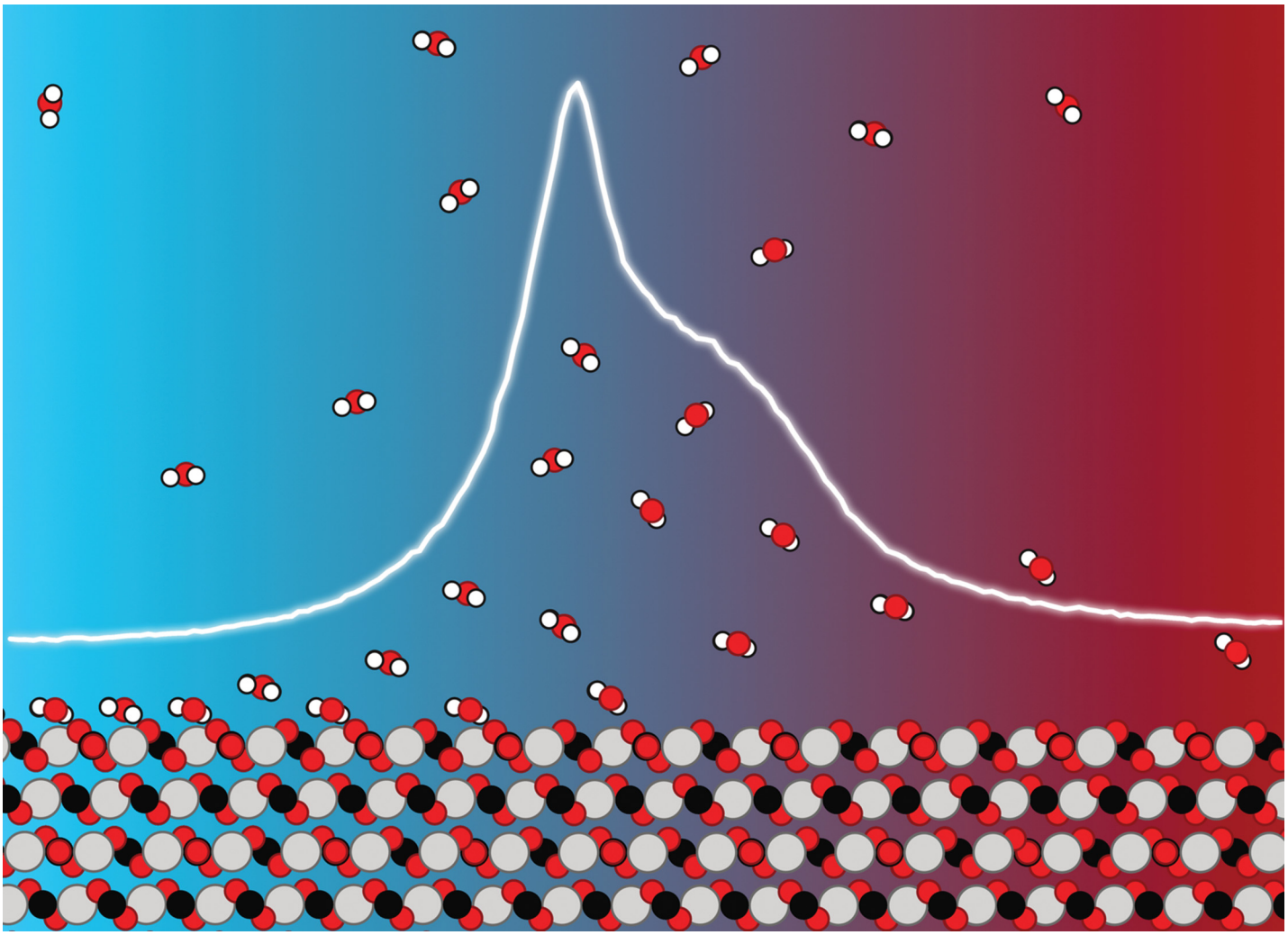

Showcasing research from the group of Professor Angelika Kühnle, Physical Chemistry, Bielefeld University, Germany

How water desorbs from calcite

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 unravels the desorption of water from calcite in the light of the (2 × 1) reconstruction of the calcite surface. The work demonstrates that the (2 × 1) reconstruction of calcite not only persists at room temperature but has significant impact on the surface properties of calcite.

As featured in:

See Tobias Dickbreder, Angelika Kühnle *et al.*, *Phys. Chem. Chem. Phys.*, 2023, **25**, 12694.

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