



Showcasing research from Dr Javier A. Martínez, from Universidad de La Habana, Cuba, and the Group of Professor Karina Morgenstern, Ruhr-Universität Bochum, Germany.

The structure-giving role of Rb^+ ions for water-ice nanoislands supported on $\text{Cu}(111)$

This work studies the solvation of rubidium in contact with $\text{Cu}(111)$ surface by low-temperature STM at two different rubidium coverages. In the presence of rubidium, the fractal dimension and mean area of water-ice nanoislands increase, and their apparent height and corrugation decrease, relative to the islands on the pristine surface. These changes demonstrate the structure-maker effect of rubidium. This study contributes to a better knowledge of solvation processes.

Artist: Aleida Pentón

As featured in:



See Javier A. Martínez *et al.*, *Phys. Chem. Chem. Phys.*, 2024, **26**, 13667.