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Oxide and Carbonate Surfaces as Environmental Interfaces: The Importance of Adsorbed Water in Surface Composition and Surface Reactivity

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Environmental molecular surface science is an important and expanding area of current research. This presentation focuses on advances in the molecular level understanding of the chemistry that occurs on the surface of oxide and carbonates in the atmosphere. In particular, the importance of water in the surface composition and surface reactivity of some representative oxide and carbonate surfaces including MgO, CaCO₃ and Fe₂O₃ will be discussed.