

[Engineering electronic structures on oxide interfaces]

Byungmin Sohn, Sungkyunkwan University

Interfaces and surfaces of quantum materials have gained significance due to their utility as scalable and controllable platforms for manipulating physical properties such as superconductivity, multiferroicity, and topological states of matter. For decades, researchers have explored manipulating interfaces/surfaces in these materials through thin-film growth techniques. However, studying the surfaces/interfaces of quantum materials often poses experimental challenges. In this talk, I explore controlled electronic structures and novel phenomena using angle-resolved photoemission spectroscopy (ARPES) and oxide thin-film growth methods.