

ECS 204

Electrochemistry
Stage

In situ Electrochemical AFM Studies

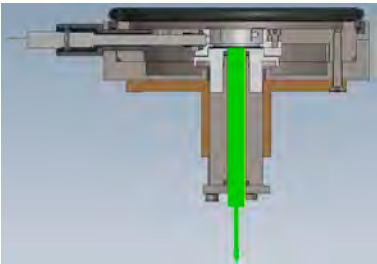




The ECS 204



Flat sample (25 × 25 × 0.2–2 mm)



Round working electrode (Ø 0.25" × 2–2.5")

In situ electrochemical AFM studies

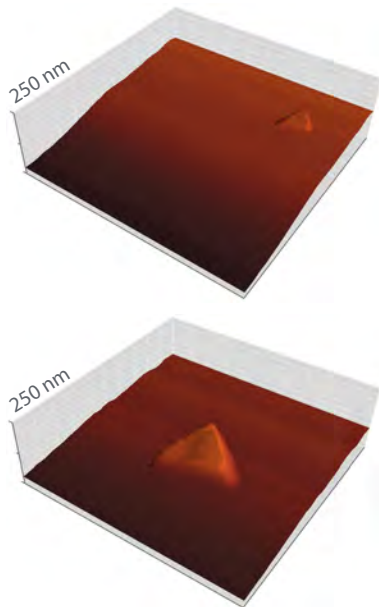
The ECS 204 allows scientists to elegantly perform simultaneous AFM imaging and electrochemical measurements on electrodes and samples immersed in electrolyte solutions.

Main features

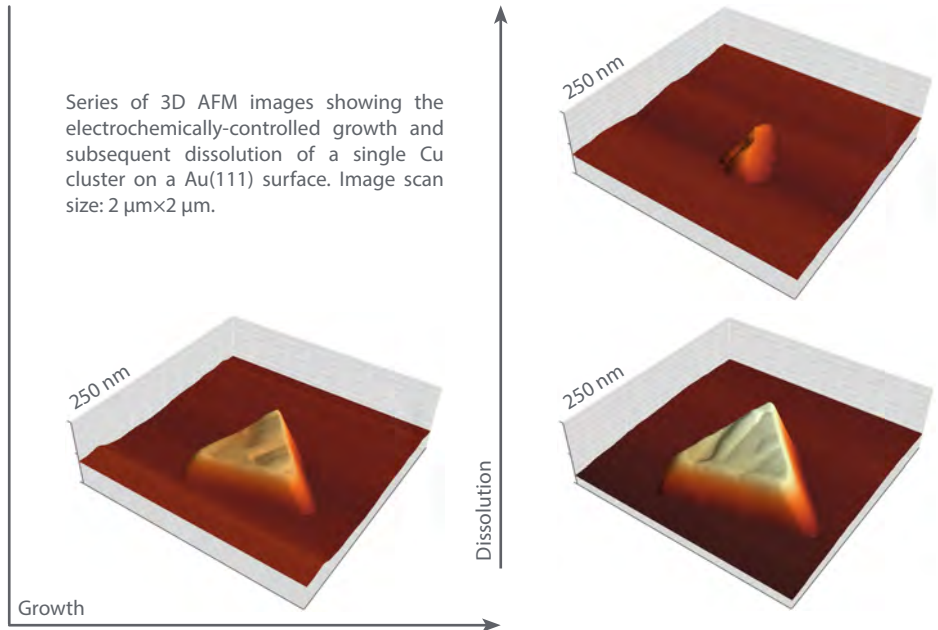
- Inert liquid cell embedded in solid steel frame
- Small protected compartment for oxygen-free atmosphere above the solution
- Integrated micrometer stage for lateral positioning (2 mm range)
- Employs thin metal wire or true reference electrode (Ø 2 mm × 65 mm)
- Mounting of flat samples or rod-type electrodes
- Liquid flow-through for solution filling and exchange
- Can be mounted on the Nanosurf Isostage for vibration isolation
- Size: 204 × 204 × 118 mm
- Weight: approx. 6 kg

Required additional components

- FlexAFM scan head with protective membrane and the C3000 controller
- Corrosion-resistant cantilever holders for imaging in liquid or in air
- Nanosurf Isostage for active vibration isolation
- FlexAFM camera



Series of 3D AFM images showing the electrochemically-controlled growth and subsequent dissolution of a single Cu cluster on a Au(111) surface. Image scan size: 2 μm × 2 μm.



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