Soft x-ray electrochemical cell

Beamline: SM

Contact: Jian Wang

A 3 electrode device for real time in-situ STXM studies of electrochemical processes, under static (sealed, non-flow) conditions, or with a continuous flow of electrolyte. The device was made using a combination of silicon microfabrication/MEMS and 3D printing technologies.

- 20 nm thick gold electrodes
- Sandwiched silicon nitride windows
- Liquid thickness up to 1.5 µm

More info can be found in Prabu et al., Rev. Sci. Instrum. 89, 063702 (2018).