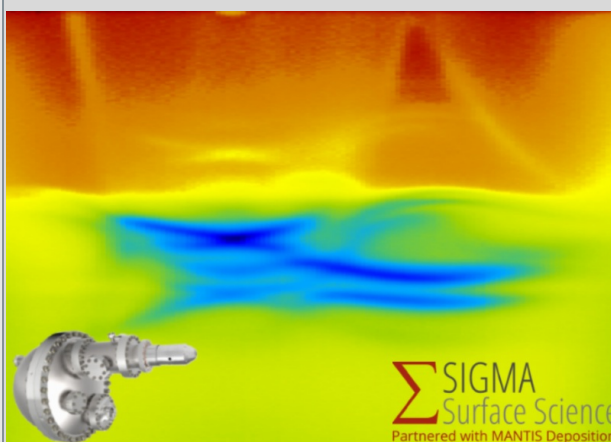


March News

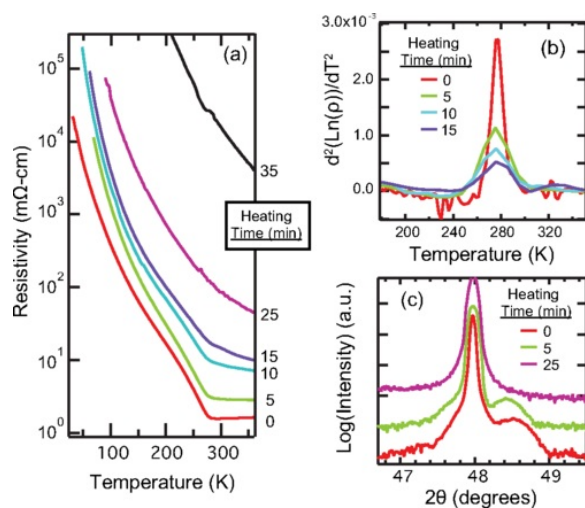


First ARPES Result at Silver Single Crystal

The ARPES mode is a new feature of the ASPECT analyzer and PULSE Dynamic XPS system.

This mode can be selected by choosing the appropriate pre-characterized lens voltages and allows the operator to undertake quantified XPS and ARPES experiments with the same instrument, rapidly and without detector exchange.

Find out more about our [ARPES here](#)



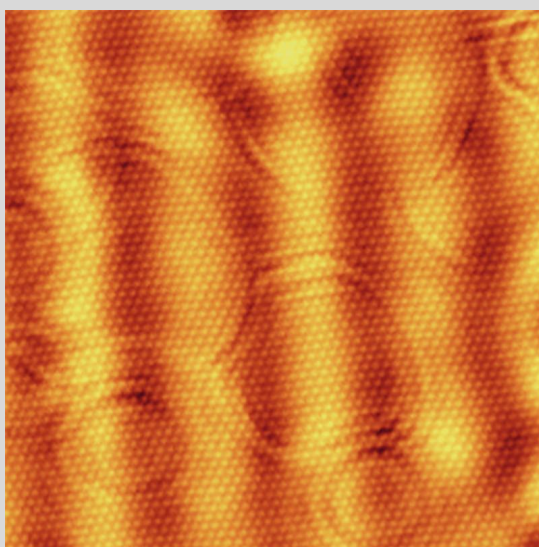
Temperature-dependent resistivity recorded after progressively reducing a CFO/LAO film by heating to 150 degrees Celsius for the indicated time.

Research Highlights: Electronic structure of negative charge transfer CaFeO3 across the metal-insulator transition

Paul C Rogge et al, investigate the metal-insulator transition for epitaxial thin films of the perovskite CaFeO3, a material with a significant oxygen ligand hole contribution to its electronic structure.

The results provide detailed insight into the metal-insulator transition of negative charge transfer compounds and should prove instructive for understanding metal-insulator transitions in other late transition metal compounds such as the nickelates.

[Download the full paper here](#)



One of many results that demonstrate the stability of the tool.

INFINITY Result: dI/dV map of Au(111) at -280mV

The best part of these results is that they were generated using a customer system prior to delivery and even with a limited time-frame we were able to quickly generate publication quality STS data using our INFINITY closed-cycle system.

Key Features INFINITY Closed Cycle UHV SPM:

- STM, qPlus®-AFM & Spectroscopy
- Integrated TRIBUS Head
- Temperature: <10K to 420K
- Proven STS performance
- Proven qPlus AFM on insulators

To stay up-to-date with its latest results, visit the [Infinity results page here](#)

We hope to see you at these [upcoming events](#):



DPG Spring Meeting
Booths 10 and 11
March 31 - April 5,
Regensburg, Germany.



ISSC-22 2019
April 15-18,
Village Hotel,
Swansea, UK.



2019 MRS Spring Meeting
Booth 202
April 22-26,
Phoenix, Arizona, USA.

Follow us on our social media channels

