

PCM Seminar - Dr Anna Bui

Vendredi sur TEAMS, 13h00 -

Le 26 janvier 2023



Dr Anna Bui

(Technical sales manager, Cameca)

"Introduction to Atom Probe Tomography and its applications in energy and environmental research"

Abstract:

APT is an analytical microscopy technique at the sub-nanometer scale. Coupling a time-of-flight spectrometer with a position-sensitive ion impact detector, APT can produce the sample chemical maps at the quasi-atomic scale. Its excellent mass resolution, its high sensitivity to all chemical species and its excellent detection limit (a few atomic ppm) make it a complementary technique to electron microscopy or SIMS.

Initially used for the study of conductive materials, APT is now widely used for the study of semiconductors, insulating materials, such as certain oxides and rocks.

After an introduction to the technique, several application examples in Li battery, Pt catalysis and energy application will be presented.

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