

Resource Summary Report

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University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility

RRID:SCR_028819

Type: Tool

Proper Citation

University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility (RRID:SCR_028819)

Resource Information

URL: <https://amcat.ucdavis.edu/>

Proper Citation: University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility (RRID:SCR_028819)

Description: Core provides access to analytical instrumentation for the investigation of material properties. Facility specializes in high-resolution imaging and chemical analysis through electron microscopy (SEM, TEM, STEM) and X-ray spectrometry and diffraction (XPS, XRD). Supports interdisciplinary research across engineering, chemistry, physics, and biology by offering comprehensive instrument training, technical support, and scientific expertise tailored to specific experimental systems. Provides resources for sample preparation, instrumentation for nanoscale research, including the only aberration-corrected Scanning Transmission Electron Microscope (STEM) in the Sacramento region, which is equipped with specialized in-situ holders for dynamic experimentation. AMCaT operates Environmental Scanning Electron Microscope (ESEM) allowing for the study of materials under variable pressure and humidity conditions. Provides high-precision XRD systems optimized for crystallography and thin-film analysis.

Synonyms: , UCD-AMCaT, Advanced Materials Characterization and Testing (AMCaT) Laboratory, AMCaT

Resource Type: access service resource, core facility, service resource

Keywords: ABRF, analytical instrumentation, investigation of material properties, imaging services, chemical analysis services,

Resource Name: University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility

Resource ID: SCR_028819

Alternate IDs: ABRF_6107

Alternate URLs: <https://coremarketplace.org/?FacilityID=6107&citation=1>

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Ratings and Alerts

No rating or validation information has been found for University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility.

No alerts have been found for University of California Davis Advanced Materials Characterization and Testing Laboratory AMCaT Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.