

Resource Summary Report

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Stanford Microchemical Analysis Core Facility

RRID:SCR_023256

Type: Tool

Proper Citation

Stanford Microchemical Analysis Core Facility (RRID:SCR_023256)

Resource Information

URL: <https://maf.stanford.edu/>

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Description: Facility is equipped with JEOL JXA-8230 SuperProbe electron microprobe. Electron microprobe measures elemental compositions of solid samples by detecting the X-rays emitted on excitation by focused electron beam, down to spatial resolution of about 1 micron. All elements heavier than beryllium can be detected, at concentrations as low as 10s of ppm. Highly quantitative analyses are made using 5 wavelength dispersive X-ray spectrometers (WDS) with calibrations based on known standard materials. Compositional images (maps) can readily be obtained with backscattered electrons (sensitive primarily to mean atomic number), or with WDS or EDS X-ray data. The instrument is adjacent to the Stanford Nanocharacterization Laboratory (SNL), at the west end of the first floor of the McCullough Building.

Abbreviations: MAF

Synonyms: Microchemical Analysis Facility, Stanford Microchemical Analysis Facility

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

Keywords: USEDit, ABRF, JEOL JXA-8230 SuperProbe electron microprobe, JEOL JXA-8230 SuperProbe, electron microprobe, elemental compositions measurement, solid samples, X-rays detection,

Resource Name: Stanford Microchemical Analysis Core Facility

Resource ID: SCR_023256

Alternate IDs: ABRF_2482

Alternate URLs: <https://coremarketplace.org/?FacilityID=2482&citation=1>,
https://coremarketplace.org/RRID:SCR_023256?citation=1

Record Creation Time: 20230208T050154+0000

Record Last Update: 20260912T200424+0000

Ratings and Alerts

No rating or validation information has been found for Stanford Microchemical Analysis Core Facility.

No alerts have been found for Stanford Microchemical Analysis Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Hickernell SM, et al. (2026) Reliability of quartz-hosted melt inclusions and discrete rhyolite reservoirs revealed by H isotopes, trace elements, and volatiles. Science advances, 12(11), eadw1667.