

Resource Summary Report

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Colorado University at Boulder Soft Materials Research Center X-Ray Diffraction Facility Core Facility

RRID:SCR_019304

Type: Tool

Proper Citation

Colorado University at Boulder Soft Materials Research Center X-Ray Diffraction Facility Core Facility (RRID:SCR_019304)

Resource Information

URL: http://smrc.colorado.edu/facilities/xrd_saxs.html

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Description: Provides cutting edge capabilities for probing large lengthscale structures such as polymers, biological macromolecules, meso- and nano-porous materials, and molecular self-assemblies. Techniques that can be applied to study materials include SAXS, GISAXS, WAXS, and GIWAXS. The 30W Xenocs Genix 3D x-ray source and state-of-the-art Dectris Eiger R 1M detector provide an excellent way to probe almost any material of interest. In-situ x-ray studies may be carried out using temperature controlled sample holders in both SAXS and GISAXS modes..

Abbreviations: SAXS

Synonyms: Soft Materials Research Center X-Ray Diffraction Facility

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

Keywords: USEDit, ABRF, probing large lengthscale structures, polymers, biological macromolecules, meso- and nano-porous materials, molecular self-assemblies,

Resource Name: Colorado University at Boulder Soft Materials Research Center X-Ray Diffraction Facility Core Facility

Resource ID: SCR_019304

Alternate IDs: ABRF_1103

Alternate URLs: <https://coremarketplace.org/?FacilityID=1103>

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260806T054712+0000

Ratings and Alerts

No rating or validation information has been found for Colorado University at Boulder Soft Materials Research Center X-Ray Diffraction Facility Core Facility.

No alerts have been found for Colorado University at Boulder Soft Materials Research Center X-Ray Diffraction Facility Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Wang CL, et al. (2025) Deactivating Symmetry Breaking of a Soft Frank-Kasper Phase via Water-Induced Conformational Ordering of a Shapeshifting Dendritic Amphiphile. ACS applied materials & interfaces, 17(21), 31403.

Chen X, et al. (2025) Thermotropic reentrant isotropic symmetry and induced smectic antiferroelectricity in the ferroelectric nematic material RM734. Proceedings of the National Academy of Sciences of the United States of America, 122(16), e2424917122.

Riedl S, et al. (2024) Evolution of the conformational dynamics of the molecular chaperone Hsp90. Nature communications, 15(1), 8627.

Zhang C, et al. (2024) $^{229}\text{ThF}_4$ thin films for solid-state nuclear clocks. Nature, 636(8043), 603.

Greenblott DN, et al. (2024) Supervised and unsupervised machine learning approaches for monitoring subvisible particles within an aluminum-salt adjuvanted vaccine formulation. Biotechnology and bioengineering.

Dikshit KV, et al. (2023) Pressure-Sensitive Supramolecular Adhesives Based on Lipoic Acid and Biofriendly Dynamic Cyclodextrin and Polyrotaxane Cross-Linkers. ACS applied materials & interfaces, 15(13), 17256.

Wolf JB, et al. (2022) Towards automation of the polyol process for the synthesis of silver nanoparticles. Scientific reports, 12(1), 5769.

Chen X, et al. (2022) Observation of a uniaxial ferroelectric smectic A phase. Proceedings of the National Academy of Sciences of the United States of America, 119(47),

e2210062119.