

Resource Summary Report

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Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility

RRID:SCR_017866

Type: Tool

Proper Citation

Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility
(RRID:SCR_017866)

Resource Information

URL: <http://xray.facilities.northwestern.edu/>

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Description: Core provides general purpose x-ray equipment for diffraction and fluorescence studies. Examples of current measurements are: powder diffraction, single-crystal diffraction, thin-film reflectivity, thin-film diffraction, crystal truncation rod scattering, small angle scattering, Laue diffraction, residual stress, pole figures, EDX-ray fluorescence, x-ray standing waves, high-resolution x-ray diffraction, and grazing incidence small angle scattering.

Abbreviations: X-RAY

Synonyms: Jerome B.Cohen X-Ray Diffraction Facility

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

Keywords: X-ray, diffraction, equipment, powder, single, crystal, thin, film, reflectivity, truncation, rod, scattering, small, angle, service, core

Funding: NSF DMR 1720139;
NSF ECCS 1542205;
Materials Research Center of Northwestern University

Availability: Open

Resource Name: Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility

Resource ID: SCR_017866

Alternate IDs: ABRF_3229

Alternate URLs: <https://coremarketplace.org/?FacilityID=3229&citation=1>

Record Creation Time: 20220129T080337+0000

Record Last Update: 20260808T190651+0000

Ratings and Alerts

No rating or validation information has been found for Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility.

No alerts have been found for Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 97 mentions in open access literature.

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

Fine SG, et al. (2026) Photochromic Cholesteric Liquid Crystals via Arylazopyrazole Functionalization of Hydroxypropyl Cellulose. *Advanced materials* (Deerfield Beach, Fla.), 38(19), e20457.

Donahue CM, et al. (2026) Direct in situ detection of grain boundary reduction in nanocrystalline ceria. *Physical chemistry chemical physics : PCCP*, 28(6), 4314.

Ye Z, et al. (2026) A Three-Component Strategy for Synthesizing High-Entropy Alloy Nanoparticles with High-Index Facets. *Journal of the American Chemical Society*, 148(17), 18095.

Oetzel JG, et al. (2025) A short pragmatic tool for evaluating community engagement: Partnering for Health Improvement and Research Equity. *Frontiers in public health*, 13, 1539864.

Zhang H, et al. (2025) The Neurophysiological Paradox of AI-Induced Frustration: A Multimodal Study of Heart Rate Variability, Affective Responses, and Creative Output. *Brain sciences*, 15(6).

Hanusch B, et al. (2025) Ex Vivo Osteoclastogenesis from Peripheral Blood Mononuclear Cells Is Unchanged in Adults with Phenylketonuria, Regardless of Dietary Compliance. *International journal of molecular sciences*, 26(12).

- Yu X, et al. (2025) Effect of acceptance and commitment therapy for adolescent depression: a meta-analysis. *Frontiers in psychiatry*, 16, 1506822.
- Zhou S, et al. (2025) Improving children's visual health by integrating motor imagery training into physical education classes. *Frontiers in psychology*, 16, 1587481.
- Urbanos G, et al. (2025) Comprehensive predictive modeling in subarachnoid hemorrhage: integrating radiomics and clinical variables. *Neurosurgical review*, 48(1), 528.
- Boujelbane MA, et al. (2025) Regional variations in Mediterranean diet adherence: a sociodemographic and lifestyle analysis across Mediterranean and non-Mediterranean regions within the MEDIET4ALL project. *Frontiers in public health*, 13, 1596681.
- Zhang C, et al. (2025) Assessing the viability of heart rate variability as an objective and comprehensive indicator of chronic non-specific neck pain. *PloS one*, 20(7), e0326357.
- Galati S, et al. (2025) Conventional and neuropsychological criteria for mild cognitive impairment show similar prognostic value for dementia across 12??years in a non-clinical setting. *Scientific reports*, 15(1), 19827.
- Atiratana T, et al. (2025) The effects of Arabian jasmine on zebrafish behavior depends on strain, sex, and personality. *bioRxiv : the preprint server for biology*.
- Beerse M, et al. (2025) Employing a single trial motor equivalent analysis for the assessment of motor learning. *Experimental brain research*, 243(7), 179.
- Cantillo-Negrete J, et al. (2025) The ReHand-BCI trial: a randomized controlled trial of a brain-computer interface for upper extremity stroke neurorehabilitation. *Frontiers in neuroscience*, 19, 1579988.
- Wiedmer T, et al. (2025) Metabolic mapping of the human solute carrier superfamily. *Molecular systems biology*, 21(6), 560.
- Ma L, et al. (2025) Effects of virtual reality on spatiotemporal gait parameters and freezing of gait in Parkinson's disease. *NPJ Parkinson's disease*, 11(1), 148.
- Mulvey AG, et al. (2025) Cell Density and mRNA Expression of Inhibitory Interneurons in Schizophrenia: A Meta-Analysis. *bioRxiv : the preprint server for biology*.
- Hofmann K, et al. (2025) Body image and mental health in women with polycystic ovary syndrome-a cross-sectional study. *Archives of gynecology and obstetrics*, 312(1), 177.
- Valderrama J, et al. (2025) Prevalence of Meniscal and Articular Surface Injuries in Patients Undergoing Primary and Revision Anterior Cruciate Ligament Reconstruction: A Retrospective Analysis. *Cureus*, 17(5), e85106.