

# Resource Summary Report

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

RRID:SCR\_017866

Type: Tool

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### Proper Citation

Northwestern University Jerome B. Cohen X-ray Diffraction Core Facility  
(RRID:SCR\_017866)

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### 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, service resource, access 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:** 20260810T040708+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 97 mentions in open access literature.

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

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.

Yu X, et al. (2025) Effect of acceptance and commitment therapy for adolescent depression: a meta-analysis. *Frontiers in psychiatry*, 16, 1506822.

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.

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*.

- Mulvey AG, et al. (2025) Cell Density and mRNA Expression of Inhibitory Interneurons in Schizophrenia: A Meta-Analysis. *bioRxiv : the preprint server for biology*.
- Wiedmer T, et al. (2025) Metabolic mapping of the human solute carrier superfamily. *Molecular systems biology*, 21(6), 560.
- 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.
- Beerse M, et al. (2025) Employing a single trial motor equivalent analysis for the assessment of motor learning. *Experimental brain research*, 243(7), 179.
- 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).
- 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.
- 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.
- 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.
- 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.
- Hamelink I, et al. (2025) Repeatability of AI-based, automatic measurement of vertebral and cardiovascular imaging biomarkers in low-dose chest CT: the ImaLife cohort. *European radiology*, 35(7), 3833.