

Resource Summary Report

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Drexel University Materials Characterization Core Facility

RRID:SCR_022684

Type: Tool

Proper Citation

Drexel University Materials Characterization Core Facility (RRID:SCR_022684)

Resource Information

URL: <https://drexel.edu/core-facilities/facilities/material-characterization/>

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Description: Facility provides technical expertise and instrumentation including nanoscience and engineering, polymer research, biomedical engineering, and chemistry and physics of solid materials. Houses electron microscopes, X-ray diffractometers, X-ray photoelectron spectrometer and suite of sample preparation tools. Staff members provide expert consultation, training and assistance to MCC users. Core is involved in teaching both undergraduate and graduate level courses in Materials Science and Engineering, Mechanical Engineering and Mechanics, Biomedical Engineering, and Biology. Trained and certified users are welcome to work independently on our instruments.

Abbreviations: MCC

Synonyms: Materials Characterization Core, Drexel University Materials Characterization Core

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

Keywords: USEDit, ABRF, nanoscience and engineering, polymer research, biomedical engineering, chemistry and physics of solid materials

Availability: open

Resource Name: Drexel University Materials Characterization Core Facility

Resource ID: SCR_022684

Alternate IDs: ABRF_1502

Alternate URLs: <https://coremarketplace.org/?FacilityID=1502&citation=1>

Record Creation Time: 20220818T050143+0000

Record Last Update: 20260905T133428+0000

Ratings and Alerts

No rating or validation information has been found for Drexel University Materials Characterization Core Facility.

No alerts have been found for Drexel University Materials Characterization Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Kurtz MA, et al. (2026) Metal Fatigue Fracture After Revision Total Knee Arthroplasty: A Retrieval Analysis. Journal of orthopaedic research : official publication of the Orthopaedic Research Society, 44(4), e70198.

Nag P, et al. (2026) Hydroxyapatite-Based 3D Tooth Models for Investigating Spatially Resolved Analysis of Biofilm Formation Dynamics. ACS applied bio materials, 9(11), 4781.

Aslani S, et al. (2025) Crevice Corrosion Degrades Metaphyseal Sleeves Following Total Knee Arthroplasty: A Retrieval Study. The Journal of arthroplasty.

Kurtz MA, et al. (2025) Titanium-Titanium Junctions in the Knee Corrode, Generating Damage Similar to the Hip. The Journal of arthroplasty, 40(1), 227.

FitzPatrick J, et al. (2025) Record Efficiency of ??-Phase PVDF-MXene Composites in Thin-Film Dielectric Capacitors. Advanced materials (Deerfield Beach, Fla.), 37(12), e2419088.

Bi L, et al. (2024) Soft, Multifunctional MXene-Coated Fiber Microelectrodes for Biointerfacing. ACS nano, 18(34), 23217.

Cardoza NA, et al. (2023) One-Dimensional, Titania Lepidocrocite-Based Nanofilaments and Their Polysulfide Anchoring Capabilities in Lithium-Sulfur Batteries. ACS applied materials & interfaces.