Resource Summary Report

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Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility

RRID:SCR_019307
Type: Tool

Proper Citation

Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility (RRID:SCR_019307)

Resource Information

URL: https://www.colorado.edu/facility/mimic/

Proper Citation: Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility (RRID:SCR_019307)

Description: Facility provides specialized services for assessment of material properties, chemistry and structure across multiple length scales with emphasis on assessment of biological tissues, biomaterials, and biologically inspired systems.

Abbreviations: MIMIC

Synonyms: Materials Instrumentation and Multimodal Imaging Core (MIMIC) Facility

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

Keywords: USEDit, ABRF, ABRF

Funding:

Resource Name: Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility

Resource ID: SCR_019307

Alternate IDs: ABRF_1106

Alternate URLs: https://coremarketplace.org/?FacilityID=1106

Record Creation Time: 20220129T080344+0000

Record Last Update: 20250430T060228+0000

Ratings and Alerts

No rating or validation information has been found for Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility.

No alerts have been found for Colorado University at Boulder Materials Instrumentation and Multimodal Imaging Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG.

Eckstein KN, et al. (2024) Controlled Mechanical Property Gradients Within a Digital Light Processing Printed Hydrogel-Composite Osteochondral Scaffold. Annals of biomedical engineering, 52(8), 2162.

Migotsky N, et al. (2024) Multi-scale cortical bone traits vary in females and males from two mouse models of genetic diversity. JBMR plus, 8(5), ziae019.

Caplins BW, et al. (2023) Characterizing light engine uniformity and its influence on liquid crystal display based vat photopolymerization printing. Additive manufacturing, 62.

Killgore JP, et al. (2023) A Data-Driven Approach to Complex Voxel Predictions in Grayscale Digital Light Processing Additive Manufacturing Using U-Nets and Generative Adversarial Networks. Small (Weinheim an der Bergstrasse, Germany), 19(50), e2301987.

Migotsky N, et al. (2023) Multi-Scale Cortical Bone Traits Vary in Two Mouse Models of Genetic Diversity. bioRxiv : the preprint server for biology.

Chandler C, et al. (2023) Influence of fluorescent dopants on the vat photopolymerization of acrylate-based plastic scintillators for application in neutron/gamma pulse shape discrimination. Additive manufacturing, 73.

Yu Y, et al. (2022) A 3D printed mimetic composite for the treatment of growth plate injuries

in a rabbit model. NPJ Regenerative medicine, 7(1), 60.

Eckstein KN, et al. (2022) The heterogeneous mechanical properties of adolescent growth plate cartilage: A study in rabbit. Journal of the mechanical behavior of biomedical materials, 128, 105102.

Beshai J, et al. (2022) Cellulose-acetate coating of carbon cloth diffusion layer for liquid-fed fuel cell applications. Journal of power sources, 542.

Schoonraad SA, et al. (2021) Biomimetic and mechanically supportive 3D printed scaffolds for cartilage and osteochondral tissue engineering using photopolymers and digital light processing. Biofabrication, 13(4).

Melchels FP, et al. (2010) A review on stereolithography and its applications in biomedical engineering. Biomaterials, 31(24), 6121.