Resource Summary Report

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Colorado State University Analytical Resources Core Facility

RRID:SCR_021758
Type: Tool

Proper Citation

Colorado State University Analytical Resources Core Facility (RRID:SCR_021758)

Resource Information

URL: https://www.research.colostate.edu/arc/

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Description: Core is comprised of Materials and Molecular Analysis (MMA), Imaging and Surface Science (ISS), and Bioanalysis and Omics (BIO) centers. MMA provides instrument capabilities and expertise in spectroscopic (optical, NMR, EPR), mass spectrometry, X-ray and materials (magnetic, thermal, physical) characterization of synthetic, environmental and biological materials, both at bulk and molecular scales; BIO provides analysis of complex biological samples using modern mass spectrometry based metabolomics and proteomics approaches, including supporting cheminformatics; ISS provides analysis of complex biological and inorganic samples using near and far field imaging methods, spectroscopy, and other surface analyses.

Abbreviations: ARC

Synonyms: Analytical Resources Core

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

Keywords: USEDit, ABRF, Materials Analysis, Molecular Analysis, NMR, EPR, Mass Spectrometry, Spectroscopy, Imaging, Microscopy, Surface Science, Proteomics, Metabolomics

Resource Name: Colorado State University Analytical Resources Core Facility

Resource ID: SCR_021758

Alternate IDs: ABRF_1206

Alternate URLs: https://coremarketplace.org/?FacilityID=1206

Record Creation Time: 20220129T080357+0000

Record Last Update: 20260905T133422+0000

Ratings and Alerts

No rating or validation information has been found for Colorado State University Analytical Resources Core Facility.

No alerts have been found for Colorado State University Analytical Resources Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 112 mentions in open access literature.

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

Šarkan M, et al. (2026) Essential role of MptB in the biosynthesis of phosphatidylinositol mannosides, lipomannan and lipoarabinomannan in mycobacteria. The Journal of biological chemistry, 302(6), 113077.

Coradi NJ, et al. (2026) Deprotonative Single-Electron Oxidation as a General and Controllably Selective Platform for Benzylic C-H Functionalization. Journal of the American Chemical Society, 148(22), 22962.

Lavhale SG, et al. (2026) Predicting End-Use Quality in Russet Potatoes Through Biochemical and Starch Analysis. Journal of food science, 91(3), e70972.

Lane SR, et al. (2026) Iodine Close Packing in Hybrid Halide Bismuth(III) and Antimony(III) Semiconductors: (NH3(CH2)7NH3)2Bi2I10 and (NH3(CH2)7NH3)2Sb2I10. Inorganic chemistry, 65(24), 13636.

Coradi NJ, et al. (2026) A Brønsted acid-base approach for the net monoselective C-F substitution of (trifluoromethyl)alkanes. Chemical science, 17(19), 9644.

Ananda Nakath Durage JL, et al. (2026) Leveraging Chelating Amido Ligands to Support Metal-Metal Bonding in Dinuclear Cr(II) Complexes. Inorganic chemistry, 65(10), 5850.

Peters AN, et al. (2026) Shifting Defect Self-Regulation via Disordered Vacancies in Hollow Tin Perovskites. Chemistry of materials : a publication of the American Chemical Society, 38(7), 3374.

Abraham OF, et al. (2026) Improving the Longevity of Li-Mediated Ammonia Synthesis via Pulsed Electrolysis under High Current Densities. ACS applied materials & interfaces, 18(23), 32616.

Klevorn T, et al. (2026) A periplasmic protein complex mediates arabinofuranosyltransferase activity and intrinsic drug resistance in Mycobacterium tuberculosis. Science advances, 12(14), eaec5100.

Claiborne AD, et al. (2026) Competitive Inhibition as a Tool to Modulate and Predict Dynamic Hydrogel Mechanics. ACS central science, 12(2), 233.

Juarez Guzman CA, et al. (2026) Comparison of Extraction Methods for the Quantification of Phytohormones from Tomato Fruits and Leaves by LC-MS/MS. bioRxiv : the preprint server for biology.

MacHale LT, et al. (2026) Identifying Disordered Intermediates in the Reaction of Cu3-xP and Dibenzyl Diselenide to form Cu3PSe4 Nanoparticles. Journal of the American Chemical Society, 148(29), 31130.

Nguyen VN, et al. (2026) Base-Promoted Benzylic C-H Amination Reactions Across a Wide pKa Spectrum Enabled by 2-Halobenzofuran and -Indole Oxidants. Journal of the American Chemical Society.

Hasimoto LH, et al. (2026) Stretchable Laser-Induced Graphene Electrodes for High-Performance Electrochemical Biosensing of Lactate in Sweat. ACS sensors, 11(3), 2218.

Nieto Ramirez LM, et al. (2026) Optimized Mass Spectrometry to Uncover M. tuberculosis Biomarkers in Extracellular Vesicles From Asymptomatic Tuberculosis Patients. The Journal of infectious diseases, 234(1), e160.

Odenkirk MT, et al. (2026) Standardized Omics at a Global Scale: A Perspective on Barriers, Opportunities, and Lessons Learned. Analytical chemistry, 98(8), 5815.

Lee OA, et al. (2026) A Modular Route toward Macromer-Based Dynamic Gels via Prebonded Boronic Ester Cross-Links. ACS macro letters, 15(1), 215.

Giebelhaus RT, et al. (2026) Best Practices in GC-MS and GC × GC-MS-Based Metabolomics and Volatile Analyses: An International Survey. Analytical chemistry, 98(18), 13319.

Duffy DH, et al. (2026) Investigation of metal identity on the structure and electronic properties of dinuclear Mn and Co complexes with triaryl tetradentate ligands. Dalton transactions (Cambridge, England : 2003), 55(24), 9412.

Kidd FE, et al. (2026) Amide ?-C-H oxidative coupling reactions enabled by base-promoted halogen transfer. Chemical science.