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: service resource, core facility, access service resource

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

Funding:

Availability: open

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: 20250514T061918+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 60 mentions in open access literature.

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

Bhattacharjee A, et al. (2024) Titania (TiO2) nanotube surfaces doped with zinc and strontium for improved cell compatibility. Nanoscale, 16(26), 12510.

Catandi GD, et al. (2024) Follicular metabolic alterations are associated with obesity in mares and can be mitigated by dietary supplementation. Scientific reports, 14(1), 7571.

Randall CR, et al. (2024) Morphology of Thin-Film Nafion on Carbon as an Analogue of Fuel Cell Catalyst Layers. ACS applied materials & interfaces, 16(3), 3311.

Seitz VA, et al. (2024) Cover Crop Root Exudates Impact Soil Microbiome Functional Trajectories in Agricultural Soils. Research square.

Halliday MR, et al. (2024) Mutual Relationships of Nanoconfined Hexoses: Impacts on Hydrodynamic Radius and Anomeric Ratios. Langmuir : the ACS journal of surfaces and colloids, 40(40), 20918.

Seitz VA, et al. (2024) Cover crop root exudates impact soil microbiome functional trajectories in agricultural soils. Microbiome, 12(1), 183.

De K, et al. (2024) Lipoarabinomannan modification as a source of phenotypic heterogeneity in host-adapted Mycobacterium abscessus isolates. Proceedings of the National Academy of Sciences of the United States of America, 121(17), e2403206121.

Miller LG, et al. (2024) Selective 8-oxo-rG stalling occurs in the catalytic core of polynucleotide phosphorylase (PNPase) during degradation. Proceedings of the National Academy of Sciences of the United States of America, 121(46), e2317865121.

Pal?eková Z, et al. (2024) Impact of Methylthioxylose Substituents on the Biological Activities of Lipomannan and Lipoarabinomannan in Mycobacterium tuberculosis. ACS infectious diseases, 10(4), 1379.

Rom CL, et al. (2024) Mechanistically Guided Materials Chemistry: Synthesis of Ternary Nitrides, CaZrN2 and CaHfN2. Journal of the American Chemical Society, 146(6), 4001.

Whitaker T, et al. (2024) Copper(II) Ions Originating from CuBTC MOF Act as a Soluble Catalyst in the Friedländer Synthesis. ACS applied materials & interfaces, 16(17), 22641.

Tipton M, et al. (2024) Urine and Dried Blood Spots From Children and Pregnant Women Reveal Phytochemicals, Amino Acids, and Carnitine Metabolites as Cowpea Consumption Biomarkers. Molecular nutrition & food research, 68(4), e2300222.

Hendricks AR, et al. (2024) Laboratory Evolution of Metalloid Reductase Substrate Recognition and Nanoparticle Product Size. ACS chemical biology, 19(2), 289.

Bone KI, et al. (2024) Direct Benzylic C-H Etherification Enabled by Base-Promoted Halogen Transfer. Angewandte Chemie (International ed. in English), 63(39), e202408750.

Johnson LG, et al. (2024) Secondary Lipid Oxidation Products as Modulators of Calpain-2 Functionality In Vitro. Journal of agricultural and food chemistry, 72(21), 12229.

Bone KI, et al. (2024) Direct C-H Hydroxylation of N-Heteroarenes and Benzenes via Base-Catalyzed Halogen Transfer. Journal of the American Chemical Society, 146(14), 9755.

VanderRoest JP, et al. (2024) Fire Impacts on the Soil Metabolome and Organic Matter Biodegradability. Environmental science & technology, 58(9), 4167.

Liu X, et al. (2024) Photooxidation of Polyolefins to Produce Materials with In-Chain Ketones and Improved Materials Properties. Angewandte Chemie (International ed. in English), e202418411.

Tran GT, et al. (2024) Selective Synthesis of Defect-Rich LaMnO3 by Low-Temperature Anion Cometathesis. Inorganic chemistry, 63(7), 3250.

Sujansky SJ, et al. (2024) A strategy for the controllable generation of organic superbases from benchtop-stable salts. Chemical science, 15(26), 10018.