Resource Summary Report

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VCU Nanomaterials Characterization Center

RRID:SCR_012162
Type: Tool

Proper Citation

VCU Nanomaterials Characterization Center (RRID:SCR_012162)

Resource Information

URL: http://www.scienceexchange.com/facilities/vcu-nanomaterials-characterization-center-vcu

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on April 15,2024. Nanomaterials Characterization Center at Virginia Commonwealth University is a state of the art 4000 sq. ft. facility located within the new Health and Life Science Engineering Facility. The Center provides an academic structure for students in natural sciences, mathematics, engineering, and medicine to participate in nanoscience and nanotechnology research to acquire the skills necessary to pursue such careers. In the past year, VCU received two National Science Foundation major research instrumentation grants totaling more than $1.6 million to expand its capabilities for research in materials science. Combining these federal awards with state instrumentation grants and private donations, the facility has been able to build a state of the art facility with over $5 million in new equipment. This new equipment will allow faculty and student researchers from both VCU campuses, as well as other universities.

Abbreviations: VCU Nanomaterials Characterization Center

Synonyms: Virginia Commonwealth University Nanomaterials Characterization Center

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

Funding: NSF

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: VCU Nanomaterials Characterization Center

Resource ID: SCR_012162

Alternate IDs: SciEx_10050

Record Creation Time: 20220129T080308+0000

Record Last Update: 20250426T060226+0000

Ratings and Alerts

No rating or validation information has been found for VCU Nanomaterials Characterization Center.

No alerts have been found for VCU Nanomaterials Characterization Center.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 45 mentions in open access literature.

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

Ma Z, et al. (2024) Toxicity and Behavior-Altering Effects of Three Nanomaterials on Red Imported Fire Ants and Their Effectiveness in Combination with Indoxacarb. Insects, 15(2).

Elshahat S, et al. (2024) Osteogenic Differentiation and Proliferation of Apical Papilla Stem Cells Using Chitosan-Coated Nanohydroxyapatite and Bioactive Glass Nanoparticles. European journal of dentistry, 18(2), 665.

Kumari K, et al. (2024) Unravelling the effects of nano SiO2, nano TiO2 and their nanocomposites on Zea mays L. growth and soil health. Scientific reports, 14(1), 13996.

Leffler M, et al. (2024) Part I: determination of a structure/property transformation mechanism responsible for changes in the point of zero change of anatase titania with decreasing particle size. RSC advances, 14(42), 30543.

Silva TA, et al. (2024) Surface-Enhanced Raman Scattering Combined with Machine Learning for Rapid and Sensitive Detection of Anti-SARS-CoV-2 IgG. Biosensors, 14(11).

Mai Q, et al. (2024) pH and Pectinase Dual-Responsive Zinc Oxide Core-Shell Nanopesticide: Efficient Control of Sclerotinia Disease and Reduction of Environmental Risks. Nanomaterials (Basel, Switzerland), 14(24).

German N, et al. (2024) Reagentless Glucose Biosensor Based on Combination of Platinum Nanostructures and Polypyrrole Layer. Biosensors, 14(3).

Strojny-Cie?lak B, et al. (2024) The cytocompatibility of graphene oxide as a platform to enhance the effectiveness and safety of silver nanoparticles through in vitro studies. Environmental science and pollution research international, 31(60), 67317.

Xie W, et al. (2024) A Unique Approach: Biomimetic Graphdiyne-Based Nanoplatform to Treat Prostate Cancer by Combining Cuproptosis and Enhanced Chemodynamic Therapy. International journal of nanomedicine, 19, 3957.

Hernández-Moreno D, et al. (2024) Toxic Effects of Different Coating-Related Functionalized Nanoparticles on Aquatic Organisms. Toxics, 12(2).

Hassen A, et al. (2024) Synergistic effects of thermally reduced graphene oxide/zinc oxide composite material on microbial infection for wound healing applications. Scientific reports, 14(1), 22942.

Martín C, et al. (2024) Electrospun Polyvinylpyrrolidone-Based Dressings Containing GO/ZnO Nanocomposites: A Novel Frontier in Antibacterial Wound Care. Pharmaceutics, 16(3).

Alhamd SJ, et al. (2024) An experimental investigation and flow-system simulation about the influencing of silica-magnesium oxide nano-mixture on enhancing the rheological properties of Iraqi crude oil. Scientific reports, 14(1), 6148.

Liu Y, et al. (2024) Rapid assays of SARS-CoV-2 virus and noble biosensors by nanomaterials. Nano convergence, 11(1), 2.

Zhang P, et al. (2024) Mesoporous Graphene Oxide Nanocomposite Effective for Combined Chemo/Photo Therapy Against Non-Small Cell Lung Cancer. International journal of nanomedicine, 19, 7493.

McGraw E, et al. (2024) Nanoparticle-mediated photoporation - an emerging versatile physical drug delivery method. Nanoscale advances, 6(20), 5007.

Xiao S, et al. (2024) The application of bacteria-nanomaterial hybrids in antitumor therapy. Journal of nanobiotechnology, 22(1), 536.

Xie X, et al. (2024) Study on the composition and properties of EME-SBS-Nano ZnO high modulus asphalt material. Scientific reports, 14(1), 23826.

Xing Y, et al. (2024) Dual-Targeted Zeolitic Imidazolate Frameworks Drug Delivery System Reversing Cisplatin Resistance to Treat Resistant Ovarian Cancer. International journal of nanomedicine, 19, 6603.

Zhao Z, et al. (2024) Constitutively active receptor ADGRA3 signaling induces adipose thermogenesis. eLife, 13.