Resource Summary Report

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Roche: Veeco Nanoscope IIIA Atomic Force Microscope

RRID:SCR_020873
Type: Tool

Proper Citation

Roche: Veeco Nanoscope IIIA Atomic Force Microscope (RRID:SCR_020873)

Resource Information

URL: https://www.utoledo.edu/engineering/cmsc/instruments/afm.html

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Description: Veeco Multimode Nanoscope IIIa AFM has a resolution of ~ 0.3 nm with A scanner. The instrument is capable of imaging areas ~ 1 sq.,m (using the standard A scanner), ~12 sq.,m. (using vertical engagement EV scanner) and ~125 sq.,m (using vertical engagement JV scanner) in the XY direction. The scanning range in the Z direction for EV and JV scanner are ~ 2,m and ~ 5,m respectively. The AFM is capable of imaging in Contact mode and Tapping mode with Nanoindentation capabilities. Attachments include a Fluid Cell for imaging in liquids (Contact and Tapping mode) and an Anti-vibration suspension mount for atomic resolution imaging. A 15 mm sample disc is used to mount the samples with access to ~ 2-3 mm area at the center of the sample.

Resource Type: instrument resource

Keywords: Veeco, Atomic Force Microscope, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Roche: Veeco Nanoscope IIIA Atomic Force Microscope

Resource ID: SCR_020873

Alternate IDs: Model_Number_Nanoscope IIIA

Record Creation Time: 20220129T080352+0000

Record Last Update: 20260829T182659+0000

Ratings and Alerts

No rating or validation information has been found for Roche: Veeco Nanoscope IIIA Atomic Force Microscope.

No alerts have been found for Roche: Veeco Nanoscope IIIA Atomic Force Microscope.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Miny S, et al. (2025) Influence of Aging and Diabetes on the Mechanical Properties of Mouse Skin. Dermatopathology (Basel, Switzerland), 12(2).

Ferreira AS, et al. (2025) Photoactivated Rose Bengal Triggers Phospholipid Hydroperoxidation and Late Apoptosis in Colorectal Cancer Cells. Langmuir : the ACS journal of surfaces and colloids, 41(10), 6789.

Wychowaniec JK, et al. (2024) Effects of proline substitution/inclusion on the nanostructure of a self-assembling ?-sheet-forming peptide. RSC advances, 14(50), 37419.

Li M, et al. (2024) HIV-1 Integrase Assembles Multiple Species of Stable Synaptic Complex Intasomes That Are Active for Concerted DNA Integration In vitro. Journal of molecular biology, 436(10), 168557.

Ortiz-Dosal A, et al. (2024) Quasi-spherical silver nanoparticles for human prolactin detection by surface-enhanced Raman spectroscopy. RSC advances, 14(10), 6998.

Zhu H, et al. (2024) Salmonella exploits membrane reservoirs for invasion of host cells. Nature communications, 15(1), 3120.

Wang Y, et al. (2024) Preparing a novel baicalin-loaded microemulsion-based gel for transdermal delivery and testing its anti-gout effect. Saudi pharmaceutical journal : SPJ : the official publication of the Saudi Pharmaceutical Society, 32(6), 102100.

Frey L, et al. (2024) A structural rationale for reversible vs irreversible amyloid fibril formation from a single protein. Nature communications, 15(1), 8448.

Xu D, et al. (2023) Food amyloid fibrils are safe nutrition ingredients based on in-vitro and in-vivo assessment. Nature communications, 14(1), 6806.

Dudek D, et al. (2022) Zn(II) binding to pramlintide results in a structural kink, fibril formation and antifungal activity. Scientific reports, 12(1), 20543.

Zhou J, et al. (2022) Oat Plant Amyloids for Sustainable Functional Materials. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 9(4), e2104445.

Miloševi? J, et al. (2021) On the Protein Fibrillation Pathway: Oligomer Intermediates Detection Using ATR-FTIR Spectroscopy. Molecules (Basel, Switzerland), 26(4).

Jurado R, et al. (2021) Understanding the Formation of Apoferritin Amyloid Fibrils. Biomacromolecules, 22(5), 2057.

Al-Edresi S, et al. (2020) Resveratrol-mediated cleavage of amyloid ?1-42 peptide: potential relevance to Alzheimer's disease. Neurobiology of aging, 94, 24.

Maciejewska BM, et al. (2019) UV cross-linked polyvinylpyrrolidone electrospun fibres as antibacterial surfaces. Science and technology of advanced materials, 20(1), 979.