

Resource Summary Report

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Gwyddion

RRID:SCR_015583

Type: Tool

Proper Citation

Gwyddion (RRID:SCR_015583)

Resource Information

URL: <http://gwyddion.net/>

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Description: Modular program for SPM (scanning probe microscopy) data visualization and analysis. Primarily it is intended for the analysis of height fields obtained by scanning probe microscopy techniques (AFM, MFM, STM, SNOM/NSOM) and it supports a lot of SPM data formats. However, it can be used for general height field and (greyscale) image processing, for instance for the analysis of profilometry data or thickness maps from imaging spectrophotometry.

Resource Type: data processing software, data analysis software, software application, software resource

Defining Citation: [DOI:10.2478/s11534-011-0096-2](https://doi.org/10.2478/s11534-011-0096-2)

Keywords: spm data analysis, spm data visualization, height field analysis

Funding: Czech Metrology Institute Department of Nanometrology

Availability: Open source

Resource Name: Gwyddion

Resource ID: SCR_015583

Alternate IDs: OMICS_07548

Alternate URLs: <https://sources.debian.org/src/gwyddion/>

License: GNU General Public License

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260801T190739+0000

Ratings and Alerts

No rating or validation information has been found for Gwyddion.

No alerts have been found for Gwyddion.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1510 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Torres VAF, et al. (2026) Optical properties of cicada wings covered by graphene studied by nano-Raman spectroscopy. *Journal of microscopy*, 301(1), 30.

Dong Z, et al. (2026) Ultrasound-assisted tannic acid crosslinking of myofibrillar protein-stabilized high internal phase emulsions: Enhanced stability, mechanical properties, and 3D printability. *Ultrasonics sonochemistry*, 124, 107703.

Paularie MA, et al. (2026) Exploring collagen fibrillogenesis at the nanoscale: Tip-enhanced Raman imaging of protofibrils. *Journal of microscopy*, 301(1), 12.

Niazov-Elkan A, et al. (2025) Lattice bond chains administer kink anisotropy and inform strategies of theophylline crystal self-healing. *iScience*, 28(7), 112866.

Millesi F, et al. (2025) Impact of conduit-filling interactions on the efficacy of fiber and hydrogel fillers in nerve conduits. *iScience*, 28(8), 113150.

Da Browski M, et al. (2025) Ultrafast thermo-optical control of spins in a 2D van der Waals semiconductor. *Nature communications*, 16(1), 2797.

Rangel-López R, et al. (2025) Gold Nanoparticles Synthesized with Triple-Negative Breast Cancer Cell Lysate Enhance Antitumoral Immunity: A Novel Synthesis Method. *Pharmaceuticals (Basel, Switzerland)*, 18(3).

Arshee MR, et al. (2025) Impact of paraben on uterine collagen: An integrated and targeted Correlative approach using second harmonic generation microscopy, nanoindentation, and atomic force microscopy. *Journal of the mechanical behavior of biomedical materials*, 165, 106926.

Lakela AL, et al. (2025) Molecular interactions, structural effects, and binding affinities between silver ions (Ag⁺) and amyloid beta (A β) peptides. *Scientific reports*, 15(1), 5439.

Schneider SHE, et al. (2025) Reversibly Charge-Switching Polyzwitterionic/Polycationic Coatings for Biomedical Applications: Optimizing the Molecular Structure for Improved Stability. *Langmuir : the ACS journal of surfaces and colloids*, 41(10), 6644.

Sardaru MC, et al. (2025) Synergistic Antibacterial Action of Norfloxacin-Encapsulated G4 Hydrogels: The Role of Boronic Acid and Cyclodextrin. *Gels* (Basel, Switzerland), 11(1).

Janiszewska N, et al. (2025) Protein Orientation and Polymer Phase Separation Induced by Poly(methyl methacrylate) Tacticity. *Langmuir : the ACS journal of surfaces and colloids*, 41(5), 3549.

Fazle Rabbi K, et al. (2025) Dynamic omniphobic surfaces enable the stable dropwise condensation of completely wetting refrigerants. *Nature communications*, 16(1), 1105.

Lucidi M, et al. (2025) The response to desiccation in *Acinetobacter baumannii*. *Virulence*, 16(1), 2490209.

Liu F, et al. (2025) Orbital Engineering Band Degeneracy in a Dual-Square Carbon-Oxide Framework. *ACS nano*, 19(15), 15139.

Bhatia P, et al. (2025) A tale of two transfers: characterizing polydimethylsiloxane viscoelastic stamping and heated poly bis-A carbonate transfer of hexagonal boron nitride. *Micron* (Oxford, England : 1993), 189, 103747.

Prado IC, et al. (2025) Ultrasensitive Peptide-Based Electrochemical Biosensor for Universal Diagnostic of Dengue. *Biosensors*, 15(4).

Zhao B, et al. (2025) Polypept(o)ide-Based Core-Shell Bottlebrush Polymers: A Versatile Platform for Drug Encapsulation. *Macromolecular bioscience*, 25(7), e2500083.

Sahoo SP, et al. (2025) Low Hysteresis Vanadium Dioxide Integrated on Silicon Using Complementary Metal-Oxide Semiconductor Compatible Oxide Buffer Layer. *Small science*, 5(2), 2400398.

Intze A, et al. (2025) Effect of RNA on the supramolecular architecture of α -synuclein fibrils. *Biophysical journal*, 124(12), 2005.