

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 analysis software, data processing 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: 20260905T133006+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 1661 mentions in open access literature.

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

Yang H, et al. (2026) Metal-hydroxyls mediate intramolecular proton transfer in heterogeneous O-O bond formation. *Nature chemistry*, 18(2), 335.

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

Mishra A, et al. (2026) Structural morphology of nanoclay films at the air-water interface under varying ionic compositions of the subphase medium. *Nanoscale advances*, 8(2), 524.

Kryuchkov M, et al. (2026) Trade-offs in insect eye nanocoatings: implications for vision, ecology, and climate sensitivity. *EMBO reports*, 27(4), 975.

Mo S, et al. (2026) Atypical β -strand insertion mediates the noncovalent cross-linking in amyloid aggregates. *Nature communications*, 17(1), 1449.

Ghadei SK, et al. (2026) Multifunctional Superwetting Sea-Urchin-Mimetic Nanosheet-Based Interface for Remote Oil-Water Separation. *Small (Weinheim an der Bergstrasse, Germany)*, 22(17), e12846.

Giglio ME, et al. (2026) Solution-Processed Thin Film of a Novel Organic Charge-Transfer Complex for Near-Infrared Detection in Field-Effect Transistors. *ACS applied materials & interfaces*, 18(8), 12889.

Raoui EM, et al. (2026) Unveiling the potential of beetroot leaf as a sustainable source of proteins: insights into ultrasound-assisted extraction, functional properties and in vitro digestibility. *Ultrasonics sonochemistry*, 126, 107751.

Ahrari F, et al. (2026) The enamel loss and adhesive remnants after bracket removal and various adhesive removal methods: an in vitro experimental study. *The Saudi dental journal*, 38(2), 14.

Pan P, et al. (2026) Drug-loaded nanoparticles for intra-articular injection. *PloS one*, 21(1), e0327958.

Secco RBB, et al. (2026) 3D-Printed Hydrogel Nanoplatfoms for Sustainable Pest Control: Encapsulated Essential Oils as Biopesticides against Bemisia tabaci. ACS omega, 11(6), 9460.

Zhao R, et al. (2026) Hierarchical micro-/nanostructured hydroxyapatite scaffolds promote osteoporotic bone regeneration via activation of hedgehog and HIF-1 α signaling. Bioactive materials, 60, 640.

Hammer HC, et al. (2026) Controlled Growth of Rare-Earth-Doped TiO₂ Thin Films on III-V Semiconductors for Hybrid Quantum Photonic Interfaces. ACS applied optical materials, 4(2), 457.

Yedelkina A, et al. (2026) Lipid Saturation and Cholesterol Drive the Mechanical Response of Lipid Bilayer to Ionic Liquid: An Atomic Force Microscopy Study. Langmuir : the ACS journal of surfaces and colloids, 42(12), 8405.

Skelly E, et al. (2026) Spatially Organized DNA-Templated Silver Nanoclusters as Potent Antimicrobial Agents for ESKAPE Infections. ACS applied materials & interfaces, 18(12), 17527.

Villalobos LF, et al. (2026) Ultrathin crown ether-based polyamide membrane for ion-ion separations. Nature communications, 17(1).

Ghosh A, et al. (2026) Light-induced giant random telegraph noise in CuScP₂S₆/MoS₂ heterostructures and their use in noise resilience image inference. Nature communications, 17(1).

Sekh TV, et al. (2026) Ligand-Engineered Methylammonium Lead Bromide Nanoplatelets: Single-Photon Emission and Strong Light-Matter Coupling. ACS nano, 20(14), 11358.

Ferrer Pascual L, et al. (2026) Charge-Regulated Electrochemistry in Self-Standing Carbon Nanotube-Nanocellulose Hybrid Electrodes. Langmuir : the ACS journal of surfaces and colloids, 42(20), 14491.

Upreti S, et al. (2026) A Robotic High-Throughput Grid-Search Platform for Mapping Phase Behavior in Triblock Copolymer-Homopolymer Blends. ACS nano, 20(24), 17303.