

Resource Summary Report

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Avogadro

RRID:SCR_015983

Type: Tool

Proper Citation

Avogadro (RRID:SCR_015983)

Resource Information

URL: <http://avogadro.cc/>

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Description: Software for semantic chemical editing, visualization, and analysis. It is designed for cross-platform use in computational chemistry, molecular modeling, bioinformatics, materials science, and related areas.

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

Defining Citation: [PMID:22889332](#), [DOI:10.1186/1758-2946-4-17](#)

Keywords: semantic, optimization, crystallography, chemical, editor, visualization, analysis, molecular, modeling, drug, design, biomolecule, simulation, bio.tools

Funding: Engineering Research Development Center W912HZ-11-P-0019; NSF DMR-1005413

Availability: Open source, Free, Free to download

Resource Name: Avogadro

Resource ID: SCR_015983

Alternate IDs: OMICS_04967, biotools:avogadro

Alternate URLs: <http://avogadro.openmolecules.net/>, <https://github.com/avogadro>, <https://bio.tools/avogadro>, <https://sources.debian.org/src/axe-demultiplexer/>

License: GNU GPL v2

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260729T044405+0000

Ratings and Alerts

No rating or validation information has been found for Avogadro.

No alerts have been found for Avogadro.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1965 mentions in open access literature.

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

Huertas T, et al. (2025) Structure-based design of an antibacterial peptide from the Myotoxin II sequence, evaluating its effectiveness against Gram-negative bacteria and its safety. Scientific reports, 15(1), 24350.

Ayiku ANA, et al. (2025) Investigating the mechanism of heat-shock protection in ISKNV-infected tilapia brain cell line. Microbiology spectrum, 13(9), e0251024.

Siiskonen A, et al. (2025) Azobenzene protonation as a tool for temperature sensing. Beilstein journal of organic chemistry, 21, 1528.

Rawat M, et al. (2025) Mechanistic Insights into Dual-Active Liver and Blood-Stage Antiplasmodials. bioRxiv : the preprint server for biology.

Ran A, et al. (2025) Molecular Understanding of the Role of Catalyst Particle Arrangement in Local Mass Transport Resistance for Fuel Cells. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(5), e2409755.

Yang L, et al. (2025) Mebendazole effectively overcomes imatinib resistance by dual-targeting BCR/ABL oncoprotein and γ -tubulin in chronic myeloid leukemia cells. The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology, 29(1), 67.

Fanelli A, et al. (2025) Hydroxycinnamoyl-coenzyme A: tetrahydroxyhexanedioate hydroxycinnamoyl transferase (HHHT) from *Phaseolus vulgaris* L.: phylogeny, expression pattern, kinetic parameters, and active site analysis. PeerJ, 13, e19037.

Lee AJ, et al. (2025) Cambered Bipyridyl Ligand with Extended Aryl System Enables Electrochemical Reduction of Carbon Dioxide and Bicarbonate by Mn(bpy)(CO)3Br-type Catalyst Immobilized on Carbon Nanotubes. Journal of the American Chemical Society, 147(9), 7411.

Veyna-Hurtado LA, et al. (2025) The Derivative Difluoroboranyl-Fluoroquinolone "7a" Generates Effective Inhibition Against the *S. aureus* Strain in a Murine Model of Acute Pneumonia. Current issues in molecular biology, 47(2).

Meng X, et al. (2025) Integrated serum metabolomics and network pharmacology reveal molecular mechanism of Qixue Huazheng formula on peritoneal fibrosis. *Frontiers in pharmacology*, 16, 1515038.

Quezada GR, et al. (2025) Molecular Dynamics Study of Polyacrylamide and Polysaccharide-Derived Flocculants Adsorption on $Mg(OH)_2$ Surfaces at pH 11. *Polymers*, 17(2).

Guo C, et al. (2025) Cometabolism of ferrihydrite reduction and methyl-dismutating methanogenesis by *Methanosarcina mazei*. *Applied and environmental microbiology*, 91(3), e0223824.

Rassouli FB, et al. (2025) Exploring the anti-metastatic potential of sunitinib and novel analogs in colorectal cancer: insights into HIF-1 α mediated metastasis. *Frontiers in pharmacology*, 16, 1520881.

Bibi H, et al. (2025) Molecular and computational analysis of a novel pathogenic variant in emopamil-binding protein (EBP) involved in cholesterol biosynthetic pathway causing a rare male EBP disorder with neurologic defects (MEND syndrome). *Molecular biology reports*, 52(1), 101.

Kaya O, et al. (2025) Hydrophobic Membrane Wettability: Effects of Salinity and Temperature. *Membranes*, 15(2).

Teixeira SC, et al. (2025) Insights into the Role of Proteolytic and Adhesive Domains of Snake Venom Metalloproteinases from *Bothrops* spp. in the Control of *Toxoplasma gondii* Infection. *Toxins*, 17(2).

Nguyen SV, et al. (2025) Role of sequence length and functionalization in interactions of bioconjugated peptides with mitomembranes. *Biointerphases*, 20(1).

Wang Y, et al. (2025) Photothermal direct methane conversion to formaldehyde at the gas-solid interface under ambient pressure. *Nature communications*, 16(1), 2550.

Wang X, et al. (2025) Investigating the pharmacological mechanisms of clopidogrel for carotid stenosis treatment based on network pharmacology and molecular docking techniques. *Clinical and experimental medicine*, 25(1), 84.

Belay Y, et al. (2025) Evaluation of Polar Substituted Schiff Bases and 1,2,3-Triazole Hybrids as Anticancer Agents. *Chemistry & biodiversity*, 22(7), e202403331.