

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 toolkit, software application, data processing software, data analysis software, software resource, data visualization software

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: 20260804T043616+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 [dkNET](#).

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.