

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: data analysis software, data processing software, data visualization software, software application, software resource, 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: 20260905T132802+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 2237 mentions in open access literature.

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

Bollmeyer MM, et al. (2026) Insights into the initial steps of the thiamin pyrimidine synthase (ThiC)-catalyzed reaction through EPR spectroscopic characterization of radical intermediates. *Chemical science*, 17(3), 1624.

Yoon DE, et al. (2026) Protocol for non-invasive delivery of CRISPR RNPs via virus-like particles for mouse model generation. *STAR protocols*, 7(1), 104352.

Hossen MJ, et al. (2026) Molecular Scale Hydrophobicity and Adsorption Thermodynamics on Hydrophobic-Charged Surfaces. *ACS nano*, 20(8), 6970.

Noh S, et al. (2026) Water-Mediated Ligand Dynamics Enable Solution-Phase Self-Assembly of Perovskite Nanocrystals Into 3D Ordered Architectures. *Small (Weinheim an der Bergstrasse, Germany)*, 22(26), e73209.

Poddutoori PK, et al. (2026) Electronically Coupled, Cofacially Linked, Hypervalent Antimony(V) Porphyrin Homodimer: Synthesis, Spectroscopy, and Photochemistry. *Inorganic chemistry*, 65(13), 7257.

Paudel P, et al. (2026) Disrupting Pheromone Signaling in Insects: Design, Synthesis, and Evaluation of an Inhibitor. *ACS omega*, 11(8), 13052.

Holzapfel NP, et al. (2026) Effects of heteroatom doping on hydrogen uptake in tungsten oxide. *Chemical science*, 17(9), 4548.

Nguyen TL, et al. (2026) Bioactivity of *Cyperus amuricus* extracts against hepatocellular carcinoma and molecular docking analysis targeting the PI3K/AKT/mTOR pathway. *PLoS one*, 21(1), e0340868.

Moetlediwa MT, et al. (2026) Identification of Enhanced Cyclooxygenase-2 (COX-2) Inhibitors Beyond Curcumin Through Virtual Screening to Target Inflammation-Related Metabolic Complications. *International journal of molecular sciences*, 27(4).

Sun S, et al. (2026) Polyurethane Cascade Depolymerization by a Combination of Thermal Pretreatment and Enzymatic Hydrolysis. *ChemSusChem*, 19(5), e202502633.

Pagliero MC, et al. (2026) Investigating Cu(II) Complexes for MRI: A Comprehensive Approach Using EPR, Relaxometry, and Computational Modeling. *Inorganic chemistry*, 65(10), 5639.

Rolig AS, et al. (2026) Bacterial colonization of tumors drives immune activation and checkpoint blockade efficacy. *Scientific reports*, 16(1).

Cui Z, et al. (2026) A previously unappreciated class of metal-dependent bile salt hydrolases from the human gut microbiome. *bioRxiv : the preprint server for biology*.

Libero ML, et al. (2026) The Green Treasure from Appennine Flora for Colon and Liver Health: Characterization and Evaluation of the Protective Effects from Aerial Parts of *Helichrysum italicum*. *Plants (Basel, Switzerland)*, 15(7).

Kaewsri W, et al. (2026) Integrated HPLC and STOCSY reveal two new lanaroft type biflavonoids from *Selaginella* plants. *Scientific reports*, 16(1).

Manzoor H, et al. (2026) Activity of linalool based silver nanoconjugates against brain tumor through in silico, in vitro and in vivo evaluations. *Scientific reports*, 16(1).

Ashraf A, et al. (2026) Synergistic effect of the rifaximin-berberine combination against *Klebsiella pneumoniae*: RfaH targeting supported by MD simulation. *Biomolecules & biomedicine*, 26(8), 1368.

Bozkır ?, et al. (2026) Computational prioritization of multi-target inhibitors: explainable QSAR and docking-based discovery of dual AChE/BACE1 chemotypes. *Journal of computer-aided molecular design*, 40(1), 54.

Rahat MTI, et al. (2026) Identification of bacterial key genes and therapeutic targets in hypertensive patients with type 2 diabetes through bioinformatics analysis. *Scientific reports*, 16(1), 6431.

Hafez S, et al. (2026) Optimizing gamma radiation shielding of low bismuth borate glass via antimony addition: optical and physical insights. *Scientific reports*, 16(1).