

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: 20260912T195833+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 [PRECISE-TBI](#) .

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.

Akgul BH, et al. (2026) Chemical Constituents and Biological Potentials of *Teucrium scordium* subsp. *scordioides* Extracts: In Vitro Experimental and In Silico Perspectives. *ChemistryOpen*, 15(5), e70216.

Tho NTM, et al. (2026) Photodegradation of indigo carmine over a (BiO)₂CO₃@ZnCo₂O₄ heterojunction: experimental and DFT insights. *Nanoscale advances*, 8(10), 3234.

U??jak L, et al. (2026) Integrated Phytochemical Profiling and Bioactivity Evaluation of *Micromeria nervosa*, with Emphasis on Antimicrobial and Antiviral Properties. *Antibiotics* (Basel, Switzerland), 15(4).

Salah NN, et al. (2026) Liquid Chromatography-Electrospray Ionization-Tandem Mass Spectrometry Profiling, Antioxidant, Antibacterial, and Antidiabetic Properties of *Fagonia cretica* L.: Insights From In Vitro and In Silico Approaches. *ChemistryOpen*, 15(6), e202500592.

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).

Alangari M, et al. (2026) Comparative investigation of uridine and Hachimoji RNA base interaction with single-walled carbon nanotube. *Journal of molecular modeling*, 32(5).

Druciarek TZ, et al. (2026) Rose rosette emaravirus dynamics in eriophyoid mites: implications for virus transmission. *Experimental & applied acarology*, 96(4).

Medina J, et al. (2026) Development of a Novel Alginate-Based Amlodipine Nanoplex for the Formulation of an Oral Film in Antihypertensive Therapy. *Pharmaceutics*, 18(6).

Osoro EK, et al. (2026) Integrated in silico and in vivo larvicidal evaluation of compounds targeting juvenile hormone for malaria vector control. *PloS one*, 21(6), e0352147.

Amadea G, et al. (2026) Systems Biology and Atomistic Simulations Reveal Multi-Target Modulation of Alzheimer's Disease and Type 2 Diabetes by Caesalpinia sappan Bioactives. *International journal of molecular sciences*, 27(12).

Faniyi OO, et al. (2026) Inhibitors of the Machupo Virus L Endonuclease for Bolivian Hemorrhagic Fever Treatments. *Microorganisms*, 14(6).

Marcuzzo MB, et al. (2026) Ethylmalonic and Methylsuccinic Acids Disrupt Bioenergetics and Induce Mitochondrial Permeability Transition Through Thiol Redox Modulation in Rat Striatum: Potential Mechanisms Involved in Ethylmalonic Encephalopathy. *Neurochemical research*, 51(3).

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.

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

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).

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.