## **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/

Proper Citation: Avogadro (RRID:SCR\_015983)

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

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

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### **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 1642 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>RRID</u>.

Parada CM, et al. (2025) Growth-dependent concentration gradient of the oscillating Min system in Escherichia coli. The Journal of cell biology, 224(2).

Unsal V, et al. (2025) Comparison of new secondgeneration H1 receptor blockers with some molecules; a study involving DFT, molecular docking, ADMET, biological target and activity. BMC chemistry, 19(1), 4.

Salam R, et al. (2025) The discovery of a new nonbile acid modulator of Takeda G proteincoupled receptor 5: An integrated computational approach. Archiv der Pharmazie, 358(1), e2400423.

Sarker DK, et al. (2025) Exploring the impact of deleterious missense nonsynonymous single nucleotide polymorphisms in the DRD4 gene using computational approaches. Scientific reports, 15(1), 3150.

Guadarrama E, et al. (2025) Defining the Polycystin Pharmacophore Through HTS & Computational Biophysics. bioRxiv : the preprint server for biology.

Basmenj ER, et al. (2025) Computational epitope-based vaccine design with bioinformatics approach; a review. Heliyon, 11(1), e41714.

Castillo G, et al. (2025) Genome Sequencing Reveals the Potential of Enterobacter sp. Strain UNJFSC003 for Hydrocarbon Bioremediation. Genes, 16(1).

AlJunaydil NA, et al. (2025) Lovastatin and Resveratrol Synergistically Improve Wound Healing and Inhibit Bacterial Growth. International journal of molecular sciences, 26(2).

Córdova A, et al. (2025) Sustainable assessment of ultrasound-assisted extraction of anthocyanins with bio-based solvents for upgrading grape pomace Cabernet Sauvignon derived from a winemaking process. Ultrasonics sonochemistry, 112, 107201.

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.

Yang L, et al. (2025) Mebendazole effectively overcomes imatinib resistance by dualtargeting BCR/ABL oncoprotein and ?-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.

Swift SJ, et al. (2025) A SIFT Study of Reactions of Positive and Negative Ions With Polyfluoroalkyl (PFAS) Molecules in Dry and Humid Nitrogen at 393?K. Rapid communications in mass spectrometry : RCM, 39(6), e9975.

Yu J, et al. (2025) Optical signatures of lattice strain in chemically doped colloidal quantum wells. Nature communications, 16(1), 823.

Francis S, et al. (2025) Evaluating the potential of Kalanchoe pinnata, Piper amalago amalago, and other botanicals as economical insecticidal synergists against Anopheles gambiae. Malaria journal, 24(1), 25.

Wang Y, et al. (2025) An Experimental and Computational Study on the Effects of Ball Milling on the Physicochemical Properties and Digestibility of a Canna Starch/Tea Polyphenol Complex. Foods (Basel, Switzerland), 14(2).

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).

Molina Ramirez SR, et al. (2025) A Truncated Multi-Thiol Aptamer-Based SARS-CoV-2 Electrochemical Biosensor: Towards Variant-Specific Point-of-Care Detection with Optimized Fabrication. Biosensors, 15(1).

Deuter KL, et al. (2025) The Emissive and Electrochemical Properties of Hypervalent Pyridine-Dipyrrolide Bismuth Complexes. Chemistry (Weinheim an der Bergstrasse, Germany), 31(6), e202403761.

Mansour EM, et al. (2025) Synthesis and evaluation of amino acid ionic liquid for enhanced oil recovery: experimental and modeling simulation studies. Scientific reports, 15(1), 2201.

Scott CE, et al. (2025) Impact of Intracellular Proteins on ?-Opioid Receptor Structure and Ligand Binding. The journal of physical chemistry. B, 129(1), 71.