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

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 FDI Lab - SciCrunch.org.

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 protein-coupled 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.

Yang L, et al. (2025) Mebendazole effectively overcomes imatinib resistance by dual-targeting 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.

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.

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.

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.

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).

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

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).

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.

Guerguer FZ, et al. (2025) Potential Azo-8-hydroxyquinoline derivatives as multi-target lead candidates for Alzheimer's disease: An in-depth in silico study of monoamine oxidase and cholinesterase inhibitors. PloS one, 20(1), e0317261.

Atceken N, et al. (2025) Development and Validation of LAMP Assays for Distinguishing MPXV Clades with Fluorescent and Colorimetric Readouts. Biosensors, 15(1).