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

Record Last Update: 20260806T054631+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 .

Rassouli FB, et al. (2025) Exploring the anti-metastatic potential of sunitinib and novel analogs in colorectal cancer: insights into HIF-1? mediated metastasis. Frontiers in pharmacology, 16, 1520881.

Lundgren Mortensen AC, et al. (2025) Dual-Nuclide Biodistribution and Therapeutic Evaluation of a Novel Antibody-Based Radiopharmaceutical in Anaplastic Thyroid Cancer Xenografts. Molecular cancer therapeutics, 24(5), 753.

Mohery M, et al. (2025) Disposable Paper Cups: A Study on Potentially Toxic Elements, Radiological Impact, and Feasibility of Valuable Elements Recovery. Toxics, 13(3).

Tanner JD, et al. (2025) Molecular basis of the functional conflict between chloroquine and peptide transport in the Malaria parasite chloroquine resistance transporter PfCRT. Nature communications, 16(1), 2987.

Ochoa-Ocampo M, et al. (2025) Volatile Compositional Profile, Antioxidant Properties, and Molecular Docking of Ethanolic Extracts from Philodendron heleniae. Molecules (Basel, Switzerland), 30(6).

Elshafey N, et al. (2025) Synergistic Artemisia monosperma with royal jelly: antibacterial, antioxidant, antibiofilm, and anti-Alzheimer assay. AMB Express, 15(1), 45.

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.

Wang Y, et al. (2025) Photothermal direct methane conversion to formaldehyde at the gas-solid interface under ambient pressure. Nature communications, 16(1), 2550.

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).

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).

Khademi Z, et al. (2025) Trimetallic ferrite functionalized by guaninium tartrate ionic liquid (Co0.2Zn0.6Cu0.2Fe2O4-SiO2@[GuaH]+[Tar]2?[GuaH]+) as a novel inorganic-bioorganic nanostructure to promote aqua-mediated synthesis of polyhydroxy-substituted pyridine-dipyrimidine fused heterocycles. Heliyon, 11(3), e42462.

Emanuelson C, et al. (2025) Rational Design of Stapled Covalent Peptide Modifiers of Oncoprotein E6 from Human Papillomavirus. ACS chemical biology, 20(3), 746.

Liman R, et al. (2025) Efficacy of Haloxyfop-R-Methyl on Allium cepa: Cyto-Genotoxic and In Silico Docking Studies on the Mechanism of Action. Microscopy research and technique, 88(7), 2048.

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.

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.

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).

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.