

Resource Summary Report

Generated by NIF on Sep 2, 2026

Wolfram Alpha Computational Knowledge Engine

RRID:SCR_002693

Type: Tool

Proper Citation

Wolfram Alpha Computational Knowledge Engine (RRID:SCR_002693)

Resource Information

URL: <http://www.wolframalpha.com/>

Proper Citation: Wolfram Alpha Computational Knowledge Engine (RRID:SCR_002693)

Description: Wolfram Alpha is a computational knowledge engine that to make all systematic knowledge computable. Although, this is not a specific neuroscience related resource, the computational and math element will be helpful. Wolfram Alpha's long-term goal is to make all systematic knowledge immediately computable and accessible to everyone. It aims to collect and curate all objective data; implement every known model, method, and algorithm; and make it possible to compute whatever can be computed about anything. It's goal is to build on the achievements of science and other systematizations of knowledge to provide a single source that can be relied on by everyone for definitive answers to factual queries. Wolfram Alpha aims to also bring expert-level knowledge and capabilities to the broadest possible range of peoplespanning all professions and education levels. It's goal is to accept completely free-form input, and to serve as a knowledge engine that generates powerful results and presents them with maximum clarity. Lastly, Wolfram Alpha is an ambitious, long-term intellectual endeavor that it intends to deliver increasing capabilities over the years and decades to come. With a world-class team and participation from top outside experts in countless fields, it's goal is to create something that will stand as a major milestone of 21st century intellectual achievement. As of now, Wolfram Alpha contains 10+ trillion pieces of data, 50,000+ types of algorithms and models, and linguistic capabilities for 1000+ domains. Built with Mathematica which is itself the result of more than 20 years of development at Wolfram Research Wolfram Alpha's core code base now exceeds 5 million lines of symbolic Mathematica code. Running on supercomputer-class compute clusters, Wolfram Alpha makes extensive use of the latest generation of web and parallel computing technologies, including webMathematica and gridMathematica. Its knowledge base and capabilities already span a great many domains, and its underlying framework has the power and flexibility to support ready extension to essentially any domain that is based on systematic knowledge.

Synonyms: Wolfram Alpha

Resource Type: data or information resource, database, knowledge environment, software application, software resource

Keywords: element, algorithm, computational, domain, knowledge, math, method, model, neuroscience, systematic, systematization, technology

Availability: Free, Freely available

Resource Name: Wolfram Alpha Computational Knowledge Engine

Resource ID: SCR_002693

Alternate IDs: nif-0000-24917

Record Creation Time: 20220129T080214+0000

Record Last Update: 20260829T182128+0000

Ratings and Alerts

No rating or validation information has been found for Wolfram Alpha Computational Knowledge Engine.

No alerts have been found for Wolfram Alpha Computational Knowledge Engine.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 35 mentions in open access literature.

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

Castillo-Villalba MP, et al. (2026) Topological Environment in Genetic and Metabolic Networks. bioRxiv : the preprint server for biology.

Gow A, et al. (2026) Myelin g Ratios: The Model Is in the Details. ASN neuro, 18(1), 2612034.

Pourali P, et al. (2025) Cellular Delivery of Functional AntimiR Conjugated to Bio-Produced Gold Nanoparticles. Non-coding RNA, 11(5).

Meyer D, et al. (2025) Proposed RP-HPTLC-FLD kit for analysis of vitamin A palmitate in edible oils. Analytical and bioanalytical chemistry, 417(17), 3791.

Tezcan B, et al. (2025) Green and simple microextraction method based on deep eutectic solvent-assisted smartphone digital imaging colorimetry (SDIC) for Rhodamine B analysis in food products. Analytical and bioanalytical chemistry, 417(18), 4163.

Fazio S, et al. (2025) K-operator for Modelling Neurodegeneration: Simulations, fMRI Application, Eigenvalue Analysis and Recurrence Plots. *Journal of medical systems*, 49(1), 144.

Dingle K, et al. (2024) Exploring Simplicity Bias in 1D Dynamical Systems. *Entropy (Basel, Switzerland)*, 26(5).

Pourali P, et al. (2024) Bioproduced Nanoparticles Deliver Multiple Cargoes via Targeted Tumor Therapy In Vivo. *ACS omega*, 9(31), 33789.

Pimm ML, et al. (2024) Coordination of actin plus-end dynamics by IQGAP1, formin, and capping protein. *The Journal of cell biology*, 223(9).

Pimm ML, et al. (2023) Coordination of actin plus-end dynamics by IQGAP1, formin, and capping protein. *bioRxiv : the preprint server for biology*.

Ko L, et al. (2023) COVID-19 Infection Rates in Vaccinated and Unvaccinated Inmates: A Retrospective Cohort Study. *Cureus*, 15(9), e44684.

Polyansky AA, et al. (2023) Protein compactness and interaction valency define the architecture of a biomolecular condensate across scales. *eLife*, 12.

Guan S, et al. (2022) WYBQ-4: a New Bactericidal Agent against Methicillin-Resistant *Staphylococcus aureus*. *Microbiology spectrum*, 10(5), e0054722.

Spisak W, et al. (2022) Antiviral activity of galvanic microcells of zinc and copper contained within painted surfaces. *Scientific reports*, 12(1), 1368.

??miel-Smorzyk K, et al. (2022) Morphometry of cerebral arterial bifurcations harbouring aneurysms: a case-control study. *BMC neurology*, 22(1), 49.

Pircher T, et al. (2021) The structure dilemma in biological and artificial neural networks. *Scientific reports*, 11(1), 5621.

Kim SS, et al. (2021) A Compendium of Age-Related PheWAS and GWAS Traits for Human Genetic Association Studies, Their Networks and Genetic Correlations. *Frontiers in genetics*, 12, 680560.

Bostwick M, et al. (2020) Antagonistic Inhibitory Circuits Integrate Visual and Gravitactic Behaviors. *Current biology : CB*, 30(4), 600.

Kaspera W, et al. (2020) Morphological and Hemodynamic Risk Factors for Middle Cerebral Artery Aneurysm: a Case-Control Study of 190 Patients. *Scientific reports*, 10(1), 2016.

Spisak W, et al. (2020) Three-electrode galvanic microcells as a new antimicrobial tool. *Scientific reports*, 10(1), 7341.