Resource Summary Report

Generated by kravitz2 on Jul 31, 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/

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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 Mathematicawhich is itself the result of more than 20 years of development at Wolfram ResearchWolfram 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: software application, knowledge environment, software resource, data or information resource, database

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: 20260731T042639+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 29 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

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

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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).

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

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

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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.

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Bowers M, et al. (2020) FASN-Dependent Lipid Metabolism Links Neurogenic Stem/Progenitor Cell Activity to Learning and Memory Deficits. Cell stem cell, 27(1), 98.

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Greenbaum G, et al. (2019) Network-based hierarchical population structure analysis for large genomic data sets. Genome research, 29(12), 2020.

Begley V, et al. (2019) The mRNA degradation factor Xrn1 regulates transcription elongation in parallel to Ccr4. Nucleic acids research, 47(18), 9524.

Brummer AB, et al. (2019) Derivations of the Core Functions of the Maximum Entropy Theory of Ecology. Entropy (Basel, Switzerland), 21(7).