

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 1, 2026

MATLAB

RRID:SCR_001622

Type: Tool

Proper Citation

MATLAB (RRID:SCR_001622)

Resource Information

URL: <http://www.mathworks.com/products/matlab/>

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Description: Multi paradigm numerical computing environment and fourth generation programming language developed by MathWorks. Allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages, including C, C++, Java, Fortran and Python. Used to explore and visualize ideas and collaborate across disciplines including signal and image processing, communications, control systems, and computational finance.

Abbreviations: MATLAB

Synonyms: matlab, MATLAB -The Language of Technical Computing, MATLAB, matrix laboratory

Resource Type: programming language, software application, software resource, data processing software, image processing software

Defining Citation: [PMID:30609523](#), [PMID:21934110](#)

Keywords: computing, analyze, visualization, algorithm, plot, vector, matrix

Availability: Restricted

Resource Name: MATLAB

Resource ID: SCR_001622

Alternate IDs: nlx_153890

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260801T042507+0000

Ratings and Alerts

No rating or validation information has been found for MATLAB.

No alerts have been found for MATLAB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 61711 mentions in open access literature.

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

Curtis AD, et al. (2026) Predictive signal modeling and multi-rate filtering in accelerated cardiac MRI. *Magnetic resonance in medicine*, 95(1), 585.

Wehmeyer L, et al. (2026) Thalamo-frontal functional connectivity patterns in Tourette Syndrome: Insights from combined intracranial DBS and EEG recordings. *Molecular psychiatry*, 31(1), 231.

Viswanathan M, et al. (2026) Interpreting amide proton transfer-weighted imaging contrast between normal and tumor brain tissues using the asymmetry analysis method at 4.7 T. *Magnetic resonance in medicine*, 95(1), 485.

Terekhov M, et al. (2026) 7T 19F/1H MRI with perfluorocarbon-labeled immune cells in pigs: Pilot results with a dedicated twin-array system with pTX support. *Magnetic resonance in medicine*, 95(1), 51.

Oliveira Assunção TB, et al. (2026) Importance of R2 accuracy in susceptibility source separation. *Magnetic resonance in medicine*, 95(1), 157.

Simegn GL, et al. (2026) Gradient Scheme Optimization for PRESS-Localized Edited MRS Using Weighted Pathway Suppression. *NMR in biomedicine*, 39(1), e70182.

Tonelli A, et al. (2026) The Development of Audio-Tactile Spatial Integration: Unraveling Vision's Contribution. *Developmental science*, 29(1), e70094.

Bauer A, et al. (2026) Transcriptomics- and 3D imaging-based characterization of the lymphatic vasculature in human skin. *The Journal of experimental medicine*, 223(1).

Choi H, et al. (2026) Secretome translation shaped by lysosomes and lunapark-marked ER junctions. *Nature*, 649(8095), 227.

Li VJ, et al. (2026) Parallel Morphological and Functional Development in the Xenopus Retinotectal System. *Developmental neurobiology*, 86(1), e70007.

Xiao Y, et al. (2026) Nanopore profiling and structure determination of oligosaccharides by fragmentation. *Science advances*, 12(1), eaea8462.

Hwang D, et al. (2026) HLA-Shuttle: A system for enhancing antigen presentation in immunologically cold tumors. *Science advances*, 12(1), eaeb0821.

Zhang L, et al. (2026) Hysteretic self-oscillatory acoustic radiation with tunable orbital angular momentum. *Science advances*, 12(1), eady5416.

Kim JI, et al. (2026) 4Pi stimulated Raman scattering for label-free super-resolution chemical imaging. *Science advances*, 12(1), eaec0523.

Keys M, et al. (2026) Dynamic changes in phycosphere carbonate chemistry reveal rapid modulation of carbon uptake in single diatom cells. *Science advances*, 12(1), eady8646.

Zhang K, et al. (2026) Venous Vessel Size Imaging Derived From A Breath-Hold Task. *NMR in biomedicine*, 39(1), e70212.

Kettner C, et al. (2026) The Effects of Shoe Sole Thickness on Running Style and Stability During Downhill Running at Different Speeds. *European journal of sport science*, 26(1), e70116.

Davies-Jenkins CW, et al. (2026) A data-driven algorithm to determine 1H-MRS basis set composition. *Magnetic resonance in medicine*, 95(1), 20.

Yang X, et al. (2026) Bidirectional crusher gradient method to estimate the labeling efficiency of pseudo-continuous arterial spin labeling MRI in mice. *Magnetic resonance in medicine*, 95(2), 912.

Li S, et al. (2026) Hundred-Nanometer-Thick Stretchable Liquid Metal Films for Ultra-Conformal Bioelectrodes. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e12762.