

Resource Summary Report

Generated by RRID on Aug 12, 2026

Numba

RRID:SCR_025056

Type: Tool

Proper Citation

Numba (RRID:SCR_025056)

Resource Information

URL: <https://numba.readthedocs.io/en/stable/index.html>

Proper Citation: Numba (RRID:SCR_025056)

Description: Open source JIT compiler that translates subset of Python and NumPy code into fast machine code. Can compile large subset of numerically-focused Python, including many NumPy functions. Has support for automatic parallelization of loops, generation of GPU-accelerated code, and creation of ufuncs and C callbacks.

Resource Type: software application, software resource

Keywords: Accelerate Python functions, JIT compiler, translate subset of Python and NumPy code into fast machine code,

Funding: Anaconda ;
Inc.

Availability: Free, Available for download, Freely available,

Resource Name: Numba

Resource ID: SCR_025056

Alternate URLs: <https://numba.pydata.org>,
<https://github.com/numba/numba/blob/c6da26929c7fc18b06dd2e5fc86982cea828df6c/docs/source/i>

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Record Creation Time: 20240305T200904+0000

Record Last Update: 20260810T040909+0000

Ratings and Alerts

No rating or validation information has been found for Numba.

No alerts have been found for Numba.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Rawal O, et al. (2026) ClusterChirp: A GPU-accelerated Web Server for Natural Language-Guided Interactive Visualization and Analysis of Large Omics Data. ArXiv.

Loya H, et al. (2025) A scalable variational inference approach for increased mixed-model association power. Nature genetics, 57(2), 461.

Zonca L, et al. (2025) Personalized models of disorders of consciousness reveal complementary roles of connectivity and local parameters in diagnosis and prognosis. PloS one, 20(9), e0328219.

Grace J, et al. (2025) Engineering multispecific antibodies with complete killing selectivity through the closed-loop integration of machine learning and high-throughput experimentation. mAbs, 17(1), 2598093.

Yue L, et al. (2025) Cooperative evolution with reward-based heterogeneous tax in spatial public goods games. iScience, 28(2), 111813.

Ramirez Sierra MA, et al. (2024) AI-powered simulation-based inference of a genuinely spatial-stochastic gene regulation model of early mouse embryogenesis. PLoS computational biology, 20(11), e1012473.

Moqadam M, et al. (2024) A Membrane-Assisted Mechanism for the Release of Ceramide from the CERT START Domain. The journal of physical chemistry. B, 128(26), 6338.

Ding L, et al. (2023) scMINER: a mutual information-based framework for identifying hidden drivers from single-cell omics data. Research square.