

Resource Summary Report

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NumPy

RRID:SCR_008633

Type: Tool

Proper Citation

NumPy (RRID:SCR_008633)

Resource Information

URL: <http://www.numpy.org>

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Description: NumPy is the fundamental package needed for scientific computing with Python. It contains among other things: * a powerful N-dimensional array object * sophisticated (broadcasting) functions * tools for integrating C/C and Fortran code * useful linear algebra, Fourier transform, and random number capabilities. Besides its obvious scientific uses, NumPy can also be used as an efficient multi-dimensional container of generic data. Arbitrary data-types can be defined. This allows NumPy to seamlessly and speedily integrate with a wide variety of databases. Sponsored by ENTHOUGHT

Synonyms: NumPy

Resource Type: software resource

Keywords: FASEB list

Resource Name: NumPy

Resource ID: SCR_008633

Alternate IDs: nif-0000-32013

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260725T190652+0000

Ratings and Alerts

No rating or validation information has been found for NumPy.

No alerts have been found for NumPy.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6485 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Meghdadi B, et al. (2026) Digital twins for in vivo metabolic flux estimations in patients with brain cancer. *Cell metabolism*, 38(1), 228.

Jeong JH, et al. (2026) Population analyses reveal heterogenous encoding in the medial prefrontal cortex during naturalistic foraging. *eLife*, 13.

Huang Q, et al. (2026) Efficient coding in working memory is adapted to the structure of the environment. *Cell reports*, 45(1), 116861.

Aguilan JT, et al. (2026) Identifying space-resolved proteins of the murine thymus, by combining MALDI-MSI and proteomics. *Life science alliance*, 9(1).

Zhang G, et al. (2026) Integrating metabolomics and machine learning to forecast anti-inflammatory and antioxidant activities in *D. officinale* leaves. *Chinese medicine*, 21(1), 8.

Thomas M, et al. (2026) Genomic and proteomic characterization of a newly isolated *Paenarthrobacter ilicis* strain and its plasmid-mediated xanthan degradation. *Microbiology spectrum*, 14(1), e0169025.

Sikandar A, et al. (2026) Antioxidant potential and increased photocatalytic efficiency of gallic acid-capped ZnO and NiO NPs for azo dye degradation: effect of heterojunction coupling and machine learning-assisted modeling. *Nanoscale advances*, 8(1), 224.

Dantas E, et al. (2026) A Subvoxel Correction of Boiling-Induced Susceptibility Artifacts in Magnetic Resonance Thermometry and Dosimetry for Monitoring Microwave Thermoablation: A Feasibility Study in a Swine Model. *Magnetic resonance in medicine*, 95(3), 1698.

Glushkova D, et al. (2026) Systematic membrane thickness variation across cellular organelles revealed by cryo-ET. *The Journal of cell biology*, 225(1).

Thayer JA, et al. (2026) A unified mechanism for mitochondrial damage sensing in PINK1-Parkin-mediated mitophagy. *The EMBO journal*, 45(1), 64.

Thomas DC, et al. (2026) Absolute quantification of cerebral metabolites using two-dimensional proton MR spectroscopic imaging with quantitative MRI-based water reference. *Magnetic resonance in medicine*, 95(1), 4.

Eyal Z, et al. (2026) pH variations enable guanine crystal formation within iridosomes. *Nature chemical biology*, 22(1), 19.

Retzer TM, et al. (2026) Real-time imaging of rotation during synthesis by the replisome. *Science advances*, 12(1), eadx4089.

Jahnke A, et al. (2026) Acoustic Prediction and Biomechanical Validation of Primary Stability in Uncemented Short-Stem Hip Prostheses: An Experimental Study. *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*, 44(1), e70108.

Nhamussua RL, et al. (2026) Screening anticancer activity by Brine shrimp lethality test of extracts of *Annona stenophylla* (Engl. & Diels), *Strophanthus petersianus* (Klotzsch) and *Synadenium glaucescens* (Pax). *PloS one*, 21(1), e0336636.

Tantaoui M, et al. (2026) Organ-specific low-dose assessment in pediatric radiotherapy using nanodot OSL and NTCP modeling: Application to medulloblastoma. *Journal of applied clinical medical physics*, 27(1), e70444.

Baloglu O, et al. (2026) Performance of Supervised Machine Learning Models for Cardiac Surgery-Associated Acute Kidney Injury in Children: Multicenter Retrospective Cohort Study, 2019-2022. *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*, 27(1), 3.

Helo M, et al. (2026) Liver fat quantification at 0.55T enabled by locally low-rank enforced deep learning reconstruction. *Magnetic resonance in medicine*, 95(1), 569.

Ghafouri H, et al. (2026) IDPEnsembleTools: An open-source library for analysis of conformational ensembles of disordered proteins. *Protein science : a publication of the Protein Society*, 35(1), e70427.

Ardelean ER, et al. (2025) A Study of Non-Linear Manifold Feature Extraction in Spike Sorting. *Neuroinformatics*, 23(4), 48.