

Resource Summary Report

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PyWavelets

RRID:SCR_024421

Type: Tool

Proper Citation

PyWavelets (RRID:SCR_024421)

Resource Information

URL: <https://github.com/PyWavelets/pywt>

Proper Citation: PyWavelets (RRID:SCR_024421)

Description: Software Python package for wavelet analysis.

Resource Type: data analysis software, data processing software, software application, software resource

Keywords: Python, wavelet analysis,

Availability: Free, Available for download, Freely available

Resource Name: PyWavelets

Resource ID: SCR_024421

License: MIT license

Record Creation Time: 20230913T050234+0000

Record Last Update: 20260905T133030+0000

Ratings and Alerts

No rating or validation information has been found for PyWavelets.

No alerts have been found for PyWavelets.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Brown GW, et al. (2026) Quantification of Soil Organic Carbon by Shifted-Excitation Raman Difference Spectroscopy with Machine Learning and Common Mode Rejection. *Analytical chemistry*, 98(15), 11020.

Jiang H, et al. (2026) Multiparametric MRI radiomics nomogram predicts synchronous distant metastasis in rectal cancer. *Scientific reports*, 16(1), 5759.

Anders C, et al. (2025) Generalised machine learning models outperform personalised models for cognitive load classification in real-life settings. *Frontiers in digital health*, 7, 1650085.

Li W, et al. (2025) Spectroscopic detection of cotton Verticillium wilt by spectral feature selection and machine learning methods. *Frontiers in plant science*, 16, 1519001.

Huang L, et al. (2025) Wavelet Phase Coherence Analysis of Oxyhemoglobin and DeoxyHemoglobin Oscillations to Investigate the Relationship Between Cups of Cupping Therapy. *Journal of biophotonics*, 18(1), e202400337.

Won J, et al. (2025) Enhancing 3D dopamine transporter imaging as a biomarker for Parkinson's disease via self-supervised learning with diffusion models. *Cell reports. Medicine*, 6(7), 102207.

Hu X, et al. (2024) DENOISING: Dynamic enhancement and noise overcoming in multimodal neural observations via high-density CMOS-based biosensors. *Frontiers in bioengineering and biotechnology*, 12, 1390108.

Kage D, et al. (2024) Cell sorting based on pulse shapes from angle resolved detection of scattered light. *Communications biology*, 7(1), 1063.

Qian H, et al. (2024) Role of peritumoral tissue analysis in predicting characteristics of hepatocellular carcinoma using ultrasound-based radiomics. *Scientific reports*, 14(1), 11538.

Liu WQ, et al. (2024) Development and Validation of an MRI-Based Radiomics Nomogram to Predict the Prognosis of De Novo Oligometastatic Prostate Cancer Patients. *Cancer medicine*, 13(24), e70481.

Qin S, et al. (2024) Prediction of pathological response and lymph node metastasis after neoadjuvant therapy in rectal cancer through tumor and mesorectal MRI radiomic features. *Scientific reports*, 14(1), 21927.

Bennett JJR, et al. (2024) Low-frequency ERK and Akt activity dynamics are predictive of stochastic cell division events. *NPJ systems biology and applications*, 10(1), 65.

Lin YD, et al. (2023) A Frequency Estimation Scheme Based on Gaussian Average Filtering Decomposition and Hilbert Transform: With Estimation of Respiratory Rate as an

Example. Sensors (Basel, Switzerland), 23(8).

Kulyabin M, et al. (2023) Enhancing Electroretinogram Classification with Multi-Wavelet Analysis and Visual Transformer. Sensors (Basel, Switzerland), 23(21).

Hu H, et al. (2022) A Modified PINN Approach for Identifiable Compartmental Models in Epidemiology with Application to COVID-19. Viruses, 14(11).

Zemel D, et al. (2022) Dopamine depletion selectively disrupts interactions between striatal neuron subtypes and LFP oscillations. Cell reports, 38(3), 110265.

Kothari G, et al. (2022) The impact of inter-observer variation in delineation on robustness of radiomics features in non-small cell lung cancer. Scientific reports, 12(1), 12822.