Resource Summary Report

Generated by Kravitz on Sep 10, 2026

ERPwavelab

RRID:SCR_014106
Type: Tool

Proper Citation

ERPwavelab (RRID:SCR_014106)

Resource Information

URL: http://www.nitrc.org/projects/erpwavelab

Proper Citation: ERPwavelab (RRID:SCR_014106)

Description: A toolbox developed for multi-channel time-frequency analysis of event related activity of EEG and MEG data. It provides tools for data analysis and visualization of the most commonly used measures of time-frequency transformed event related data as well as data decomposition through non-negative matrix and multi-way (tensor) factorization. The decompositions provided can accommodate additional dimensions like subjects, conditions or repeats and as such they are perfected for group analysis. The toolbox enables tracking of phase locked activity from one channel-time-frequency instance to another as well as tools for artifact rejection in the time-frequency domain.

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

Keywords: software toolbox, data analysis, data visualization, eeg data, meg data, plugin, time frequency domain, fourier time domain analysis, temporal wavelet analysis

Availability: Open source

Resource Name: ERPwavelab

Resource ID: SCR_014106

Alternate URLs: http://www.erpwavelab.org

License: GNU General Public License

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260905T132743+0000

Ratings and Alerts

No rating or validation information has been found for ERPwavelab.

No alerts have been found for ERPwavelab.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Ferrari A, et al. (2025) WTools: A MATLAB-based toolbox for time-frequency analysis of infant data. PloS one, 20(5), e0323179.

Griskova-Bulanova I, et al. (2020) Envelope Following Response to 440 Hz Carrier Chirp-Modulated Tones Show Clinically Relevant Changes in Schizophrenia. Brain sciences, 11(1).

Binder M, et al. (2020) Auditory steady-state response to chirp-modulated tones: A pilot study in patients with disorders of consciousness. NeuroImage. Clinical, 27, 102261.

Parciauskaite V, et al. (2019) 40-Hz auditory steady-state responses and the complex information processing: An exploratory study in healthy young males. PloS one, 14(10), e0223127.

Pang J, et al. (2019) Resolving the Electroencephalographic Correlates of Rapid Goal-Directed Chunking in the Frontal-Parietal Network. Frontiers in neuroscience, 13, 744.

Griskova-Bulanova I, et al. (2018) 40Hz auditory steady-state response in schizophrenia: Sensitivity to stimulation type (clicks versus flutter amplitude-modulated tones). Neuroscience letters, 662, 152.

Pipinis E, et al. (2018) Low and high gamma auditory steady-states in response to 440???Hz carrier chirp-modulated tones show no signs of attentional modulation. Neuroscience letters, 678, 104.

Voicikas A, et al. (2016) Effect of attention on 40Hz auditory steady-state response depends on the stimulation type: Flutter amplitude modulated tones versus clicks. Neuroscience letters, 629, 215.

Qin J, et al. (2011) Dissociation of subjectively reported and behaviorally indexed mind wandering by EEG rhythmic activity. PloS one, 6(9), e23124.