# Eric Larson

List of Publications by Year
in descending order



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|---|---|---|---|
| 40 papers | 21,659 citations | 516710 16 h-index | 361022 35 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 30220 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SciPy 1.0: fundamental algorithms for scientific computing in Python. Nature Methods, 2020, 17, 261-272. | 19.0 | 17,539 |
| 2 | MEG and EEG data analysis with MNE-Python. Frontiers in Neuroscience, 2013, 7, 267. | 2.8 | 1,864 |
| 3 | MNE software for processing MEG and EEG data. NeuroImage, 2014, 86, 446-460. | 4.2 | 1,431 |
| 4 | Using neuroimaging to understand the cortical mechanisms of auditory selective attention. Hearing Research, 2014, 307, 111-120. | 2.0 | 86 |
| 5 | A Reproducible MEG/EEG Group Study With the MNE Software: Recommendations, Quality Assessments, and Good Practices. Frontiers in Neuroscience, 2018, 12, 530. | 2.8 | 82 |
| 6 | Infant brain responses to felt and observed touch of hands and feet: an <scp>MEG</scp> study. Developmental Science, 2018, 21, e12651. | 2.4 | 79 |
| 7 | MNE-BIDS: Organizing electrophysiological data into the BIDS format and facilitating their analysis. Journal of Open Source Software, 2019, 4, 1896. | 4.6 | 65 |
| 8 | Auditory Selective Attention Reveals Preparatory Activity in Different Cortical Regions for Selection Based on Source Location and Source Pitch. Frontiers in Neuroscience, 2013, 6, 190. | 2.8 | 60 |
| 9 | The cortical dynamics underlying effective switching of auditory spatial attention. NeuroImage, 2013, 64, 365-370. | 4.2 | 51 |
| 10 | Reducing Sensor Noise in MEG and EEG Recordings Using Oversampled Temporal Projection. IEEE Transactions on Biomedical Engineering, 2018, 65, 1002-1013. | 4.2 | 43 |
| 11 | Analysis methods for measuring passive auditory fNIRS responses generated by a block-design paradigm. Neurophotonics, 2021, 8, 025008. | 3.3 | 41 |
| 12 | Switching auditory attention using spatial and non-spatial features recruits different cortical networks. NeuroImage, 2014, 84, 681-687. | 4.2 | 36 |
| 13 | Pupillometry shows the effort of auditory attention switching. Journal of the Acoustical Society of America, 2017, 141, 2440-2451. | 1.1 | 28 |
| 14 | The Importance of Properly Compensating for Head Movements During MEG Acquisition Across Different Age Groups. Brain Topography, 2017, 30, 172-181. | 1.8 | 25 |
| 15 | A Biologically Plausible Computational Model for Auditory Object Recognition. Journal of Neurophysiology, 2009, 101, 323-331. | 1.8 | 24 |
| 16 | Leveraging anatomical information to improve transfer learning in brainâ€“computer interfaces. Journal of Neural Engineering, 2015, 12, 046027. | 3.5 | 24 |
| 17 | A Robust and Biologically Plausible Spike Pattern Recognition Network. Journal of Neuroscience, 2010, 30, 15566-15572. | 3.6 | 18 |
| 18 | Influence of preparation time and pitch separation in switching of auditory attention between streams. Journal of the Acoustical Society of America, 2013, 134, EL165-EL171. | 1.1 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Structural templates for imaging EEG cortical sources in infants. NeuroImage, 2021, 227, 117682. | 4.2 | 15 |
| 20 | Mapping Cortical Dynamics Using Simultaneous MEG/EEG and Anatomically-constrained Minimum-norm Estimates: an Auditory Attention Example. Journal of Visualized Experiments, 2012, , e4262. | 0.3 | 14 |
| 21 | Intracranial Electrode Location and Analysis in MNE-Python. Journal of Open Source Software, 2022, 7, 3897. | 4.6 | 10 |
| 22 | Effectively combining temporal projection noise suppression methods in magnetoencephalography. Journal of Neuroscience Methods, 2020, 341, 108700. | 2.5 | 9 |
| 23 | Categorical Vowel Perception Enhances the Effectiveness and Generalization of Auditory Feedback in Human-Machine-Interfaces. PLoS ONE, 2013, 8, e59860. | 2.5 | 9 |
| 24 | Mind the Noise Covariance When Localizing Brain Sources with M/EEG. , 2015, , . | | 8 |
| 25 | Auditory Attention Deployment in Young Adults with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2021, , 1. | 2.7 | 8 |
| 26 | Potential Use of MEG to Understand Abnormalities in Auditory Function in Clinical Populations. Frontiers in Human Neuroscience, 2014, 8, 151. | 2.0 | 7 |
| 27 | Auditory deficits in infants at risk for dyslexia during a linguistic sensitive period predict future language. NeuroImage: Clinical, 2021, 30, 102578. | 2.7 | 7 |
| 28 | Combined Auditory and Vibrotactile Feedback for Humanâ€“Machine-Interface Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 62-68. | 4.9 | 6 |
| 29 | Incorporating modern neuroscience findings to improve brainâ€“computer interfaces: tracking auditory attention. Journal of Neural Engineering, 2016, 13, 056017. | 3.5 | 6 |
| 30 | Extended Signal-Space Separation Method for Improved Interference Suppression in MEG. IEEE Transactions on Biomedical Engineering, 2021, 68, 2211-2221. | 4.2 | 6 |
| 31 | Audio-visual feedback for electromyographic control of vowel synthesis. , 2012, 2012, 3600-3. | | 5 |
| 32 | Effects of augmentative visual training on audio-motor mapping. Human Movement Science, 2014, 35, 145-155. | 1.4 | 4 |
| 33 | Infant brain imaging using magnetoencephalography: Challenges, solutions, and best practices. Human Brain Mapping, 2022, 43, 3609-3619. | 3.6 | 4 |
| 34 | Neuron-Specific Stimulus Masking Reveals Interference in Spike Timing at the Cortical Level. JARO - Journal of the Association for Research in Otolaryngology, 2012, 13, 81-89. | 1.8 | 3 |
| 35 | Neural Switch Asymmetry in Feature-Based Auditory Attention Tasks. JARO - Journal of the Association for Research in Otolaryngology, 2019, 20, 205-215. | 1.8 | 3 |
| 36 | Unified Expression of the Quasi-Static Electromagnetic Field: Demonstration With MEG and EEG Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 992-1004. | 4.2 | 3 |

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|---|---|---|---|
| 37 | Improving Localization Accuracy of Neural Sources by Pre-processing: Demonstration With Infant MEG Data. Frontiers in Neurology, 2022, 13, 827529. | 2.4 | 3 |
| 38 | Reduced Theta Sampling in Infants at Risk for Dyslexia across the Sensitive Period of Native Phoneme Learning. International Journal of Environmental Research and Public Health, 2022, 19, 1180. | 2.6 | 2 |
| 39 | Towards a next-generation hearing aid through brain state classification and modeling. , 2013, 2013, 2808-11. | | 1 |
| 40 | The role of augmentative visual training in auditory human-machine-interface performance. , 2013, 2013, 2804-7. | | 0 |