

# Hualou Liang

## List of Publications by Year in descending order

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58  
papers

2,781  
citations

257450

24  
h-index

189892

50  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-window spectral analysis of cortical event-related potentials by adaptive multivariate autoregressive modeling: data preprocessing, model validation, and variability assessment. <i>Biological Cybernetics</i> , 2000, 83, 35-45.	1.3	519
2	A backward progression of attentional effects in the ventral stream. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 361-365.	7.1	252
3	BSMART: A Matlab/C toolbox for analysis of multichannel neural time series. <i>Neural Networks</i> , 2008, 21, 1094-1104.	5.9	174
4	Application of the Empirical Mode Decomposition to the Analysis of Esophageal Manometric Data in Gastroesophageal Reflux Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1692-1701.	4.2	148
5	Incremental Integration of Global Contours through Interplay between Visual Cortical Areas. <i>Neuron</i> , 2014, 82, 682-694.	8.1	148
6	Investigating systematic bias in brain age estimation with application to post-traumatic stress disorders. <i>Human Brain Mapping</i> , 2019, 40, 3143-3152.	3.6	148
7	Semiblind spatial ICA of fMRI using spatial constraints. <i>Human Brain Mapping</i> , 2010, 31, 1076-1088.	3.6	146
8	Synchronized activity in prefrontal cortex during anticipation of visuomotor processing. <i>NeuroReport</i> , 2002, 13, 2011-2015.	1.2	96
9	Causal Influence: Advances in Neurosignal Analysis. <i>Critical Reviews in Biomedical Engineering</i> , 2005, 33, 347-430.	0.9	93
10	Improved prediction of brain age using multimodal neuroimaging data. <i>Human Brain Mapping</i> , 2020, 41, 1626-1643.	3.6	89
11	Empirical mode decomposition of field potentials from macaque V4 in visual spatial attention. <i>Biological Cybernetics</i> , 2005, 92, 380-392.	1.3	73
12	Interactions between feedback and lateral connections in the primary visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8637-8642.	7.1	72
13	Causal influences in primate cerebral cortex during visual pattern discrimination. <i>NeuroReport</i> , 2000, 11, 2875-2880.	1.2	70
14	Single-trial evoked potential estimation using wavelets. <i>Computers in Biology and Medicine</i> , 2007, 37, 463-473.	7.0	68
15	Causality Analysis of Neural Connectivity: Critical Examination of Existing Methods and Advances of New Methods. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 829-844.	4.2	57
16	A copula approach to assessing Granger causality. <i>NeuroImage</i> , 2014, 100, 125-134.	4.2	53
17	Visibility states modulate microsaccade rate and direction. <i>Vision Research</i> , 2009, 49, 228-236.	1.4	52
18	Hippocampal Ripple Coordinates Retrosplenial Inhibitory Neurons during Slow-Wave Sleep. <i>Cell Reports</i> , 2020, 30, 432-441.e3.	6.4	45

#	ARTICLE	IF	CITATIONS
19	Intrinsic mode entropy based on multivariate empirical mode decomposition and its application to neural data analysis. <i>Cognitive Neurodynamics</i> , 2011, 5, 277-284.	4.0	43
20	Structure-Function Network Mapping and Its Assessment via Persistent Homology. <i>PLoS Computational Biology</i> , 2017, 13, e1005325.	3.2	35
21	Synergistic Processing of Visual Contours across Cortical Layers in V1 and V2. <i>Neuron</i> , 2017, 96, 1388-1402.e4.	8.1	32
22	Granger-Geweke causality: Estimation and interpretation. <i>NeuroImage</i> , 2018, 175, 460-463.	4.2	30
23	Stimulus artifact cancellation in the serosal recordings of gastric myoelectric activity using wavelet transform. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 681-688.	4.2	28
24	A blind source separation-based method for multiple images encryption. <i>Image and Vision Computing</i> , 2008, 26, 788-798.	4.5	28
25	Removal of ECG contamination from diaphragmatic EMG by nonlinear filtering. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 63, 745-753.	1.1	26
26	Temporal dynamics of information flow in the cerebral cortex. <i>Neurocomputing</i> , 2001, 38-40, 1429-1435.	5.9	22
27	Causality analysis of neural connectivity: New tool and limitations of spectral Granger causality. <i>Neurocomputing</i> , 2012, 76, 44-47.	5.9	20
28	Adaptive independent component analysis of multichannel electrogastrograms. <i>Medical Engineering and Physics</i> , 2001, 23, 91-97.	1.7	17
29	Detection of delayed gastric emptying from electrogastrograms with support vector machine. <i>IEEE Transactions on Biomedical Engineering</i> , 2001, 48, 601-604.	4.2	17
30	Search for Information-Bearing Components in Neural Data. <i>PLoS ONE</i> , 2014, 9, e99793.	2.5	15
31	Copula Regression Analysis of Simultaneously Recorded Frontal Eye Field and Inferotemporal Spiking Activity during Object-Based Working Memory. <i>Journal of Neuroscience</i> , 2015, 35, 8745-8757.	3.6	13
32	A Copula-Based Granger Causality Measure for the Analysis of Neural Spike Train Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 562-569.	3.0	13
33	Virtual screening FDA approved drugs against multiple targets of SARS-CoV-2. <i>Clinical and Translational Science</i> , 2021, 14, 1123-1132.	3.1	12
34	Decoding a bistable percept with integrated time-frequency representation of single-trial local field potential. <i>Journal of Neural Engineering</i> , 2008, 5, 433-442.	3.5	11
35	Application of combined genetic algorithms with cascade correlation to diagnosis of delayed gastric emptying from electrogastrograms. <i>Medical Engineering and Physics</i> , 2000, 22, 229-234.	1.7	10
36	Top-down anticipatory control in prefrontal cortex. <i>Theory in Biosciences</i> , 2003, 122, 70-86.	1.4	10

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37	Variance Entropy: A Method for Characterizing Perceptual Awareness of Visual Stimulus. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-6.	2.3	10
38	Information Extraction From FDA Drug Labeling to Enhance Product-Specific Guidance Assessment Using Natural Language Processing. Frontiers in Research Metrics and Analytics, 2021, 6, 670006.	1.9	10
39	Extraction of percept-related induced local field potential during spontaneously reversing perception. Neural Networks, 2009, 22, 720-727.	5.9	9
40	PERCEPTUAL SUPPRESSION REVEALED BY ADAPTIVE MULTI-SCALE ENTROPY ANALYSIS OF LOCAL FIELD POTENTIAL IN MONKEY VISUAL CORTEX. International Journal of Neural Systems, 2013, 23, 1350005.	5.2	9
41	Joint analysis of spikes and local field potentials using copula. NeuroImage, 2016, 133, 457-467.	4.2	9
42	Assessment of the Esophageal Pressure in Gastroesophageal Reflux Disease by the Local Regression. Annals of Biomedical Engineering, 2005, 33, 847-853.	2.5	8
43	Extraction of Bistable-Percept-Related Features From Local Field Potential by Integration of Local Regression and Common Spatial Patterns. IEEE Transactions on Biomedical Engineering, 2009, 56, 2095-2103.	4.2	7
44	Spike-field Granger causality for hybrid neural data analysis. Journal of Neurophysiology, 2019, 122, 809-822.	1.8	7
45	Noise-Assisted Instantaneous Coherence Analysis of Brain Connectivity. Computational Intelligence and Neuroscience, 2012, 2012, 1-12.	1.7	6
46	Multiscale Entropy: Recent Advances. , 2017, , 115-138.		5
47	Highly Flexible Precisely Braided Multielectrode Probes and Combinatorics for Future Neuroprostheses. Frontiers in Neuroscience, 2019, 13, 613.	2.8	5
48	Relaxation-Based Multichannel Signal Combination (RELAX-MUSIC) for ROC Analysis of Percept-Related Neuronal Activity. IEEE Transactions on Biomedical Engineering, 2006, 53, 2615-2618.	4.2	4
49	Spatiotemporal Neural Integration for Bistable Perception in a Response-Time Structure-From-Motion Task. IEEE Transactions on Biomedical Engineering, 2009, 56, 2937-2948.	4.2	2
50	Erratum to "Temporal dynamics of information flow in the cerebral cortex" [Neurocomputing 38(40) (2001) 1429-1435]. Neurocomputing, 2002, 42, 339.	5.9	1
51	Percept-related cortical induced activity during bistable perception. , 2009, , .		1
52	Uncovering perceptual awareness of visual stimulus with adaptive multiscale entropy. , 2011, , .		1
53	Data on copula modeling of mixed discrete and continuous neural time series. Data in Brief, 2016, 7, 1364-1369.	1.0	1
54	Brain age prediction for post-traumatic stress disorder patients with convolutional neural networks: a multi-modal neuroimaging study. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	A novel audio color watermarking scheme based on self-organizing map. , 2009, , .		0
56	Sample entropy analysis of local field potential in generalized flash suppression. , 2010, , .		0
57	Functional network analysis of insight in resting-state brain activity. , 2011, , .		0
58	Extraction of microsaccade-related signal from single-trial local field potential by ICA with reference. Neural Computing and Applications, 2011, 20, 1181-1186.	5.6	0