Hualou Liang

List of Publications by Year in descending order

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	Virtual screening FDA approved drugs against multiple targets of SARSâ€CoVâ€2. Clinical and Translational Science, 2021, 14, 1123-1132.	3.1	12
2	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
3	Improved prediction of brain age using multimodal neuroimaging data. Human Brain Mapping, 2020, 41, 1626-1643.	3.6	89
4	Hippocampal Ripple Coordinates Retrosplenial Inhibitory Neurons during Slow-Wave Sleep. Cell Reports, 2020, 30, 432-441.e3.	6.4	45
5	Spike-field Granger causality for hybrid neural data analysis. Journal of Neurophysiology, 2019, 122, 809-822.	1.8	7
6	Highly Flexible Precisely Braided Multielectrode Probes and Combinatorics for Future Neuroprostheses. Frontiers in Neuroscience, 2019, 13, 613.	2.8	5
7	Investigating systematic bias in brain age estimation with application to postâ€traumatic stress disorders. Human Brain Mapping, 2019, 40, 3143-3152.	3.6	148
8	A Copula-Based Granger Causality Measure for the Analysis of Neural Spike Train Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 562-569.	3.0	13
9	Granger-Geweke causality: Estimation and interpretation. NeuroImage, 2018, 175, 460-463.	4.2	30
10	Brain age prediction for post-traumatic stress disorder patients with convolutional neural networks: a multi-modal neuroimaging study. , 2018, , .		1
11	Interactions between feedback and lateral connections in the primary visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8637-8642.	7.1	72
12	Multiscale Entropy: Recent Advances. , 2017, , 115-138.		5
13	Synergistic Processing of Visual Contours across Cortical Layers in V1 and V2. Neuron, 2017, 96, 1388-1402.e4.	8.1	32
14	Structure-Function Network Mapping and Its Assessment via Persistent Homology. PLoS Computational Biology, 2017, 13, e1005325.	3.2	35
15	Data on copula modeling of mixed discrete and continuous neural time series. Data in Brief, 2016, 7, 1364-1369.	1.0	1
16	Joint analysis of spikes and local field potentials using copula. NeuroImage, 2016, 133, 457-467.	4.2	9
17	Copula Regression Analysis of Simultaneously Recorded Frontal Eye Field and Inferotemporal Spiking Activity during Object-Based Working Memory. Journal of Neuroscience, 2015, 35, 8745-8757.	3.6	13
18	Search for Information-Bearing Components in Neural Data. PLoS ONE, 2014, 9, e99793.	2.5	15

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19	Incremental Integration of Global Contours through Interplay between Visual Cortical Areas. Neuron, 2014, 82, 682-694.	8.1	148
20	A copula approach to assessing Granger causality. NeuroImage, 2014, 100, 125-134.	4.2	53
21	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
22	Noise-Assisted Instantaneous Coherence Analysis of Brain Connectivity. Computational Intelligence and Neuroscience, 2012, 2012, 1-12.	1.7	6
23	Variance Entropy: A Method for Characterizing Perceptual Awareness of Visual Stimulus. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-6.	2.3	10
24	Causality analysis of neural connectivity: New tool and limitations of spectral Granger causality. Neurocomputing, 2012, 76, 44-47.	5.9	20
25	Uncovering perceptual awareness of visual stimulus with adaptive multiscale entropy. , 2011, , .		1
26	Functional network analysis of insight in resting-state brain activity. , 2011, , .		0
27	Causality Analysis of Neural Connectivity: Critical Examination of Existing Methods and Advances of New Methods. IEEE Transactions on Neural Networks, 2011, 22, 829-844.	4.2	57
28	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
29	Intrinsic mode entropy based on multivariate empirical mode decomposition and its application to neural data analysis. Cognitive Neurodynamics, 2011, 5, 277-284.	4.0	43
30	Semiblind spatial ICA of fMRI using spatial constraints. Human Brain Mapping, 2010, 31, 1076-1088.	3.6	146
31	A backward progression of attentional effects in the ventral stream. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 361-365.	7.1	252
32	Sample entropy analysis of local field potential in generalized flash suppression. , 2010, , .		0
33	A novel audio color watermarking scheme based on self-organizing map. , 2009, , .		0
34	Percept-related cortical induced activity during bistable perception. , 2009, , .		1
35	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
36	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

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37	Visibility states modulate microsaccade rate and direction. Vision Research, 2009, 49, 228-236.	1.4	52
38	Extraction of percept-related induced local field potential during spontaneously reversing perception. Neural Networks, 2009, 22, 720-727.	5.9	9
39	BSMART: A Matlab/C toolbox for analysis of multichannel neural time series. Neural Networks, 2008, 21, 1094-1104.	5.9	174
40	A blind source separation-based method for multiple images encryption. Image and Vision Computing, 2008, 26, 788-798.	4.5	28
41	Decoding a bistable percept with integrated time–frequency representation of single-trial local field potential. Journal of Neural Engineering, 2008, 5, 433-442.	3.5	11
42	Single-trial evoked potential estimation using wavelets. Computers in Biology and Medicine, 2007, 37, 463-473.	7.0	68
43	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
44	Removal of ECG contamination from diaphragmatic EMG by nonlinear filtering. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, 745-753.	1.1	26
45	Application of the Empirical Mode Decomposition to the Analysis of Esophageal Manometric Data in Gastroesophageal Reflux Disease. IEEE Transactions on Biomedical Engineering, 2005, 52, 1692-1701.	4.2	148
46	Assessment of the Esophageal Pressure in Gastroesophageal Reflux Disease by the Local Regression. Annals of Biomedical Engineering, 2005, 33, 847-853.	2.5	8
47	Empirical mode decomposition of field potentials from macaque V4 in visual spatial attention. Biological Cybernetics, 2005, 92, 380-392.	1.3	73
48	Causal Influence: Advances in Neurosignal Analysis. Critical Reviews in Biomedical Engineering, 2005, 33, 347-430.	0.9	93
49	Top-down anticipatory control in prefrontal cortex. Theory in Biosciences, 2003, 122, 70-86.	1.4	10
50	Synchronized activity in prefrontal cortex during anticipation of visuomotor processing. NeuroReport, 2002, 13, 2011-2015.	1.2	96
51	Stimulus artifact cancellation in the serosal recordings of gastric myoelectric activity using wavelet transform. IEEE Transactions on Biomedical Engineering, 2002, 49, 681-688.	4.2	28
52	Erratum to "Temporal dynamics of information flow in the cerebral cortex"[Neurocomputing 38–40 (2001) 1429–1435]. Neurocomputing, 2002, 42, 339.	5.9	1
53	Adaptive independent component analysis of multichannel electrogastrograms. Medical Engineering and Physics, 2001, 23, 91-97.	1.7	17
54	Detection of delayed gastric emptying from electrogastrograms with support vector machine. IEEE Transactions on Biomedical Engineering, 2001, 48, 601-604.	4.2	17

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55	Temporal dynamics of information flow in the cerebral cortex. Neurocomputing, 2001, 38-40, 1429-1435.	5.9	22
56	Causal influences in primate cerebral cortex during visual pattern discrimination. NeuroReport, 2000, 11, 2875-2880.	1.2	70
57	Application of combined genetic algorithms with cascade correlation to diagnosis of delayed gastric emptying from electrogastrograms. Medical Engineering and Physics, 2000, 22, 229-234.	1.7	10
58	Short-window spectral analysis of cortical event-related potentials by adaptive multivariate autoregressive modeling: data preprocessing, model validation, and variability assessment. Biological Cybernetics, 2000, 83, 35-45.	1.3	519