Changsong Zhou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4373260/publications.pdf

Version: 2024-02-01

111 papers	9,248 citations	101543 36 h-index	39675 94 g-index
115 all docs	115 docs citations	115 times ranked	5705 citing authors

#	Article	IF	Citations
1	Less is more: wiring-economical modular networks support self-sustained firing-economical neural avalanches for efficient processing. National Science Review, 2022, 9, nwab102.	9.5	9
2	Criticality enhances the multilevel reliability of stimulus responses in cortical neural networks. PLoS Computational Biology, 2022, 18, e1009848.	3.2	9
3	Multimodal Evidence of Atypical Processing of Eye Gaze and Facial Emotion in Children With Autistic Traits. Frontiers in Human Neuroscience, 2022, 16, 733852.	2.0	3
4	Rational designing of oscillatory rhythmicity for memory rescue in plasticity-impaired learning networks. Cell Reports, 2022, 39, 110678.	6.4	2
5	Acute stress promotes brain network integration and reduces state transition variability. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	7
6	Lifespan associations of resting-state brain functional networks with ADHD symptoms. IScience, 2022, 25, 104673.	4.1	5
7	What do neuroanatomical networks reveal about the ontology of human cognitive abilities?. IScience, 2022, 25, 104706.	4.1	1
8	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. IEEE Transactions on Cybernetics, 2021, 51, 5046-5056.	9.5	13
9	Spatial multi-scaled chimera states of cerebral cortex network and its inherent structure-dynamics relationship in human brain. National Science Review, 2021, 8, nwaa125.	9.5	21
10	Adaptive Reconfiguration of Intrinsic Community Structure in Children with 5-Year Abacus Training. Cerebral Cortex, 2021, 31, 3122-3135.	2.9	8
11	Cortex-Wide Dynamics of Intrinsic Electrical Activities: Propagating Waves and Their Interactions. Journal of Neuroscience, 2021, 41, 3665-3678.	3.6	33
12	Nature and nurture shape structural connectivity in the face processing brain network. NeuroImage, 2021, 229, 117736.	4.2	7
13	Segregation, integration, and balance of large-scale resting brain networks configure different cognitive abilities. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	88
14	Closing the loop of DBS using the beta oscillations in cortex. Cognitive Neurodynamics, 2021, 15, 1157-1167.	4.0	7
15	Dynamic Configuration of Coactive Micropatterns in the Default Mode Network During Wakefulness and Sleep. Brain Connectivity, 2021, 11, 471-482.	1.7	4
16	Gamma Oscillations Facilitate Effective Learning in Excitatory-Inhibitory Balanced Neural Circuits. Neural Plasticity, 2021, 2021, 1-18.	2.2	12
17	Association of aerobic glycolysis with the structural connectome reveals a benefitâ€“risk balancing mechanism in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2013232118.	7.1	5
18	Synaptic changes modulate spontaneous transitions between tonic and bursting neural activities in coupled Hindmarsh-Rose neurons. Physical Review E, 2021, 104, 054407.	2.1	8

#	Article	IF	Citations
19	Exploring Neural Signal Complexity as a Potential Link between Creative Thinking, Intelligence, and Cognitive Control. Journal of Intelligence, 2021, 9, 59.	2.5	5
20	Finding type and location of the source of cardiac arrhythmias from the averaged flow velocity field using the determinant-trace method. Physical Review E, 2021, 104, 064401.	2.1	3
21	Patterns of individual differences in fiber tract integrity of the face processing brain network support neurofunctional models. NeuroImage, 2020, 204, 116229.	4.2	11
22	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. Neural Networks, 2020, 123, 381-392.	5.9	16
23	What Does Temporal Brain Signal Complexity Reveal About Verbal Creativity?. Frontiers in Behavioral Neuroscience, 2020, 14, 146.	2.0	6
24	Hopf Bifurcation in Mean Field Explains Critical Avalanches in Excitation-Inhibition Balanced Neuronal Networks: A Mechanism for Multiscale Variability. Frontiers in Systems Neuroscience, 2020, 14, 580011.	2.5	23
25	Sex differences in behavioral and brain responses to incongruity in emotional speech controlling for autistic traits. Biological Psychology, 2020, 157, 107973.	2.2	2
26	Characterizing the brainâ€™s dynamical response from scalp-level neural electrical signals: a review of methodology development. Cognitive Neurodynamics, 2020, 14, 731-742.	4.0	13
27	A Large-Scale High-Density Weighted Structural Connectome of the Macaque Brain Acquired by Predicting Missing Links. Cerebral Cortex, 2020, 30, 4771-4789.	2.9	7
28	Understanding the computation of time using neural network models. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10530-10540.	7.1	42
29	Predicting reading ability from brain anatomy and function: From areas to connections. NeuroImage, 2020, 218, 116966.	4.2	18
30	Individual Cortical Entropy Profile: Testâ€“Retest Reliability, Predictive Power for Cognitive Ability, and Neuroanatomical Foundation. Cerebral Cortex Communications, 2020, 1, tgaa015.	1.6	15
31	Hierarchical Connectome Modes and Critical State Jointly Maximize Human Brain Functional Diversity. Physical Review Letters, 2019, 123, 038301.	7.8	73
32	The reliability and psychometric structure of Multi-Scale Entropy measured from EEG signals at rest and during face and object recognition tasks. Journal of Neuroscience Methods, 2019, 326, 108343.	2.5	18
33	Cognitive Performance in Young APOE Îµ4 Carriers: A Latent Variable Approach for Assessing the Genotypeâ€“Phenotype Relationship. Behavior Genetics, 2019, 49, 455-468.	2.1	6
34	Assessing spatiotemporal variability of brain spontaneous activity by multiscale entropy and functional connectivity. NeuroImage, 2019, 198, 198-220.	4.2	34
35	Repetition Priming Effects for Famous Faces through Dynamic Causal Modelling of Latencyâ€Corrected Eventâ€Related Brain Potentials. European Journal of Neuroscience, 2018, 49, 1330-1347.	2.6	6
36	Mathematical Modeling for Description of Oscillation Suppression Induced by Deep Brain Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1649-1658.	4.9	8

#	Article	IF	Citations
37	Exploiting the intra-subject latency variability from single-trial event-related potentials in the P3 time range: A review and comparative evaluation of methods. Neuroscience and Biobehavioral Reviews, 2017, 75, 1-21.	6.1	106
38	Structural encoding processes contribute to individual differences in face and object cognition: Inferences from psychometric test performance and event-related brain potentials. Cortex, 2017, 95, 192-210.	2.4	18
39	COMT genotype is differentially associated with single trial variability of ERPs as a function of memory type. Biological Psychology, 2017, 127, 209-219.	2.2	5
40	Co-emergence of multi-scale cortical activities of irregular firing, oscillations and avalanches achieves cost-efficient information capacity. PLoS Computational Biology, 2017, 13, e1005384.	3.2	30
41	Features of spatial and functional segregation and integration of the primate connectome revealed by trade-off between wiring cost and efficiency. PLoS Computational Biology, 2017, 13, e1005776.	3.2	39
42	Spike Pattern Structure Influences Synaptic Efficacy Variability under STDP and Synaptic Homeostasis. I: Spike Generating Models on Converging Motifs. Frontiers in Computational Neuroscience, 2016, 10, 14.	2.1	6
43	Spike Pattern Structure Influences Synaptic Efficacy Variability under STDP and Synaptic Homeostasis. II: Spike Shuffling Methods on LIF Networks. Frontiers in Computational Neuroscience, 2016, 10, 83.	2.1	2
44	Unfolding large-scale online collaborative human dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14627-14632.	7.1	32
45	Functional complexity emerging from anatomical constraints in the brain: the significance of network modularity and rich-clubs. Scientific Reports, 2016, 6, 38424.	3.3	87
46	Reconstructing ERP amplitude effects after compensating for trial-to-trial latency jitter: A solution based on a novel application of residue iteration decomposition. International Journal of Psychophysiology, 2016, 109, 9-20.	1.0	45
47	Articulation Artifacts During Overt Language Production in Event-Related Brain Potentials: Description and Correction. Brain Topography, 2016, 29, 791-813.	1.8	25
48	Fast response and high sensitivity to microsaccades in a cascading-adaptation neural network with short-term synaptic depression. Physical Review E, 2016, 93, 042302.	2.1	4
49	Model predictions of features in microsaccade-related neural responses in a feedforward network with short-term synaptic depression. Scientific Reports, 2016, 6, 20888.	3.3	2
50	Restoring Latency-Variable ERP Components from Single Trials: A New Approach to ERP Analysis with Residue Iteration Decomposition (RIDE). Advances in Cognitive Neurodynamics, 2016, , 519-525.	0.1	0
51	Stochastic Oscillation in Self-Organized Critical States of Small Systems: Sensitive Resting State in Neural Systems. Physical Review Letters, 2016, 116, 018101.	7.8	29
52	Neuroanatomic localization of priming effects for famous faces with latency-corrected event-related potentials. Brain Research, 2016, 1632, 58-72.	2.2	6
53	Dissociating the Influence of Affective Word Content and Cognitive Processing Demands on the Late Positive Potential. Brain Topography, 2016, 29, 82-93.	1.8	10
54	Understanding Structural-Functional Relationships in the Human Brain. Neuroscientist, 2015, 21, 290-305.	3.5	173

#	Article	IF	Citations
55	A toolbox for residue iteration decomposition (RIDE)â€"A method for the decomposition, reconstruction, and single trial analysis of event related potentials. Journal of Neuroscience Methods, 2015, 250, 7-21.	2.5	133
56	Re-Examination of Chinese Semantic Processing and Syntactic Processing: Evidence from Conventional ERPs and Reconstructed ERPs by Residue Iteration Decomposition (RIDE). PLoS ONE, 2015, 10, e0117324.	2.5	15
57	Updating and validating a new framework for restoring and analyzing latencyâ€variable ERP components from single trials with residue iteration decomposition (RIDE). Psychophysiology, 2015, 52, 839-856.	2.4	95
58	Testing the stimulus-to-response bridging function of the oddball-P3 by delayed response signals and residue iteration decomposition (RIDE). NeuroImage, 2014, 100, 271-280.	4.2	130
59	Overcoming limitations of the <scp>ERP</scp> method with <scp>R</scp>esidue <scp>I</scp>teration <scp>D</scp>ecomposition (<scp>RIDE</scp>): A demonstration in go/noâ€go experiments. Psychophysiology, 2013, 50, 253-265.	2.4	74
60	Separating stimulusâ€driven and responseâ€related <scp>LRP</scp> components with Residue Iteration Decomposition (<scp>RIDE</scp>). Psychophysiology, 2013, 50, 70-73.	2.4	28
61	Trade-off between Multiple Constraints Enables Simultaneous Formation of Modules and Hubs in Neural Systems. PLoS Computational Biology, 2013, 9, e1002937.	3.2	91
62	A model of microsaccade-related neural responses induced by short-term depression in thalamocortical synapses. Frontiers in Computational Neuroscience, 2013, 7, 47.	2.1	5
63	Network Evolution Induced by Asynchronous Stimuli through Spike-Timing-Dependent Plasticity. PLoS ONE, 2013, 8, e84644.	2.5	8
64	Hierarchical modular structure enhances the robustness of self-organized criticality in neural networks. New Journal of Physics, 2012, 14, 023005.	2.9	58
65	Relative clock verifies endogenous bursts of human dynamics. Europhysics Letters, 2012, 97, 18006.	2.0	33
66	Multiple synchronization attractors of serially connected spin-torque nanooscillators. Physical Review B, 2012, 86, .	3.2	18
67	Interplay between structure and dynamics in adaptive complex networks: Emergence and amplification of modularity by adaptive dynamics. Physical Review E, 2011, 84, 016116.	2.1	33
68	Characterizing the complexity of brain and mind networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3730-3747.	3.4	13
69	Exploring Brain Function from Anatomical Connectivity. Frontiers in Neuroscience, 2011, 5, 83.	2.8	92
70	Organization of Anti-Phase Synchronization Pattern in Neural Networks: What are the Key Factors?. Frontiers in Systems Neuroscience, 2011, 5, 100.	2.5	31
71	Sustained activity in hierarchical modular neural networks: self-organized criticality and oscillations. Frontiers in Computational Neuroscience, 2011, 5, 30.	2.1	82
72	Residue iteration decomposition (RIDE): A new method to separate ERP components on the basis of latency variability in single trials. Psychophysiology, 2011, 48, 1631-1647.	2.4	166

#	Article	IF	Citations
73	Competition between intra-community and inter-community synchronization and relevance in brain cortical networks. Physical Review E, 2011, 84, 016109.	2.1	22
74	Fractional locking of spin-torque oscillator by injected ac current. Physical Review B, 2011, 83, .	3.2	19
75	Coupled perturbed heteroclinic cycles: Synchronization and dynamical behaviors of spin-torque oscillators. Physical Review B, 2011, 84, .	3.2	21
76	Evidence for a bimodal distribution in human communication. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18803-18808.	7.1	219
77	Human comment dynamics in on-line social systems. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5832-5837.	2.6	23
78	Cortical hubs form a module for multisensory integration on top of the hierarchy of cortical networks. Frontiers in Neuroinformatics, 2010, 4, 1.	2.5	272
79	Rate-synchrony relationship between input and output of spike trains in neuronal networks. Physical Review E, 2010, 81, 011917.	2.1	1
80	Mapping from structure to dynamics: A unified view of dynamical processes on networks. Physical Review E, 2010, 82, 026116.	2.1	28
81	Complexity versus modularity and heterogeneity in oscillatory networks: Combining segregation and integration in neural systems. Physical Review E, 2010, 82, 046225.	2.1	35
82	Better synchronizability in generalized adaptive networks. Physical Review E, 2010, 81, 026201.	2.1	28
83	Global attractors and the difficulty of synchronizing serial spin-torque oscillators. Physical Review B, 2010, 82, .	3.2	34
84	Enhanced synchronizability in scale-free networks. Chaos, 2009, 19, 013105.	2.5	16
85	Graph analysis of cortical networks reveals complex anatomical communication substrate. Chaos, 2009, 19, 015117.	2.5	79
86	Information encoding in an oscillatory network. Physical Review E, 2009, 79, 061910.	2.1	9
87	Complex brain networks: From topological communities to clustered dynamics. Pramana - Journal of Physics, 2008, 70, 1087-1097.	1.8	8
88	Synchronization in complex networks. Physics Reports, 2008, 469, 93-153.	25.6	2,928
89	Synchronization in small-world networks. Chaos, 2008, 18, 037111.	2.5	41
90	Reciprocity of networks with degree correlations and arbitrary degree sequences. Physical Review E, 2008, 77, 016106.	2.1	39

#	Article	IF	Citations
91	Structureâ€“function relationship in complex brain networks expressed by hierarchical synchronization. New Journal of Physics, 2007, 9, 178-178.	2.9	145
92	Structural and functional clusters of complex brain networks. Physica D: Nonlinear Phenomena, 2006, 224, 202-212.	2.8	116
93	Universality in the Synchronization of Weighted Random Networks. Physical Review Letters, 2006, 96, 034101.	7.8	301
94	Hierarchical synchronization in complex networks with heterogeneous degrees. Chaos, 2006, 16, 015104.	2.5	113
95	Dynamical Weights and Enhanced Synchronization in Adaptive Complex Networks. Physical Review Letters, 2006, 96, 164102.	7.8	346
96	Hierarchical Organization Unveiled by Functional Connectivity in Complex Brain Networks. Physical Review Letters, 2006, 97, 238103.	7.8	426
97	Weighted networks are more synchronizable: how and why. AIP Conference Proceedings, 2005, , .	0.4	28
98	Network synchronization, diffusion, and the paradox of heterogeneity. Physical Review E, 2005, 71, 016116.	2.1	455
99	Resonant patterns in noisy active media. Physical Review E, 2004, 69, 056210.	2.1	3
100	Three Types of Transitions to Phase Synchronization in Coupled Chaotic Oscillators. Physical Review Letters, 2003, 91, 024101.	7.8	146
101	Noise-induced synchronization and coherence resonance of a Hodgkinâ€“Huxley model of thermally sensitive neurons. Chaos, 2003, 13, 401-409.	2.5	157
102	Frequency and phase locking of noise-sustained oscillations in coupled excitable systems: Array-enhanced resonances. Physical Review E, 2003, 67, 030101.	2.1	63
103	Noise-Sustained Coherent Oscillation of Excitable Media in a Chaotic Flow. Physical Review Letters, 2003, 91, 150601.	7.8	18
104	Noise, Synchronization and Coherence in Chaotic Oscillators. International Journal of Modern Physics B, 2003, 17, 4023-4044.	2.0	3
105	Noise-Induced Phase Synchronization and Synchronization Transitions in Chaotic Oscillators. Physical Review Letters, 2002, 88, 230602.	7.8	216
106	Spatiotemporal coherence resonance of phase synchronization in weakly coupled chaotic oscillators. Physical Review E, 2002, 65, 040101.	2.1	40
107	Noise-Enhanced Phase Synchronization of Chaotic Oscillators. Physical Review Letters, 2002, 89, 014101.	7.8	117
108	Array-Enhanced Coherence Resonance: Nontrivial Effects of Heterogeneity and Spatial Independence of Noise. Physical Review Letters, 2001, 87, 098101.	7.8	274

#	Article	IF	Citations
109	Synchronization regimes in coupled noisy excitable systems. Physical Review E, 2001, 63, 026201.	2.1	14
110	Phase synchronization in coupled nonidentical excitable systems and array-enhanced coherence resonance. Physical Review E, 2000, 61, R1001-R1004.	2.1	161
111	Symmetry-breaking on-off intermittency under modulation: Robustness of supersensitivity, resonance, and information gain. Physical Review E, 2000, 62, 1983-1987.	2.1	8