

Changsong Zhou

List of Publications by Year in descending order

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111
papers

9,248
citations

101384

36
h-index

39575

94
g-index

115
all docs

115
docs citations

115
times ranked

5705
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization in complex networks. <i>Physics Reports</i> , 2008, 469, 93-153.	10.3	2,928
2	Network synchronization, diffusion, and the paradox of heterogeneity. <i>Physical Review E</i> , 2005, 71, 016116.	0.8	455
3	Hierarchical Organization Unveiled by Functional Connectivity in Complex Brain Networks. <i>Physical Review Letters</i> , 2006, 97, 238103.	2.9	426
4	Dynamical Weights and Enhanced Synchronization in Adaptive Complex Networks. <i>Physical Review Letters</i> , 2006, 96, 164102.	2.9	346
5	Universality in the Synchronization of Weighted Random Networks. <i>Physical Review Letters</i> , 2006, 96, 034101.	2.9	301
6	Array-Enhanced Coherence Resonance: Nontrivial Effects of Heterogeneity and Spatial Independence of Noise. <i>Physical Review Letters</i> , 2001, 87, 098101.	2.9	274
7	Cortical hubs form a module for multisensory integration on top of the hierarchy of cortical networks. <i>Frontiers in Neuroinformatics</i> , 2010, 4, 1.	1.3	272
8	Evidence for a bimodal distribution in human communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18803-18808.	3.3	219
9	Noise-Induced Phase Synchronization and Synchronization Transitions in Chaotic Oscillators. <i>Physical Review Letters</i> , 2002, 88, 230602.	2.9	216
10	Understanding Structural-Functional Relationships in the Human Brain. <i>Neuroscientist</i> , 2015, 21, 290-305.	2.6	173
11	Residue iteration decomposition (RIDE): A new method to separate ERP components on the basis of latency variability in single trials. <i>Psychophysiology</i> , 2011, 48, 1631-1647.	1.2	166
12	Phase synchronization in coupled nonidentical excitable systems and array-enhanced coherence resonance. <i>Physical Review E</i> , 2000, 61, R1001-R1004.	0.8	161
13	Noise-induced synchronization and coherence resonance of a Hodgkin-Huxley model of thermally sensitive neurons. <i>Chaos</i> , 2003, 13, 401-409.	1.0	157
14	Three Types of Transitions to Phase Synchronization in Coupled Chaotic Oscillators. <i>Physical Review Letters</i> , 2003, 91, 024101.	2.9	146
15	Structure-function relationship in complex brain networks expressed by hierarchical synchronization. <i>New Journal of Physics</i> , 2007, 9, 178-178.	1.2	145
16	A toolbox for residue iteration decomposition (RIDE)—A method for the decomposition, reconstruction, and single trial analysis of event related potentials. <i>Journal of Neuroscience Methods</i> , 2015, 250, 7-21.	1.3	133
17	Testing the stimulus-to-response bridging function of the oddball-P3 by delayed response signals and residue iteration decomposition (RIDE). <i>NeuroImage</i> , 2014, 100, 271-280.	2.1	130
18	Noise-Enhanced Phase Synchronization of Chaotic Oscillators. <i>Physical Review Letters</i> , 2002, 89, 014101.	2.9	117

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19	Structural and functional clusters of complex brain networks. <i>Physica D: Nonlinear Phenomena</i> , 2006, 224, 202-212.	1.3	116
20	Hierarchical synchronization in complex networks with heterogeneous degrees. <i>Chaos</i> , 2006, 16, 015104.	1.0	113
21	Exploiting the intra-subject latency variability from single-trial event-related potentials in the P3 time range: A review and comparative evaluation of methods. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 75, 1-21.	2.9	106
22	Updating and validating a new framework for restoring and analyzing latency-variable ERP components from single trials with residue iteration decomposition (RIDE). <i>Psychophysiology</i> , 2015, 52, 839-856.	1.2	95
23	Exploring Brain Function from Anatomical Connectivity. <i>Frontiers in Neuroscience</i> , 2011, 5, 83.	1.4	92
24	Trade-off between Multiple Constraints Enables Simultaneous Formation of Modules and Hubs in Neural Systems. <i>PLoS Computational Biology</i> , 2013, 9, e1002937.	1.5	91
25	Segregation, integration, and balance of large-scale resting brain networks configure different cognitive abilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	88
26	Functional complexity emerging from anatomical constraints in the brain: the significance of network modularity and rich-clubs. <i>Scientific Reports</i> , 2016, 6, 38424.	1.6	87
27	Sustained activity in hierarchical modular neural networks: self-organized criticality and oscillations. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 30.	1.2	82
28	Graph analysis of cortical networks reveals complex anatomical communication substrate. <i>Chaos</i> , 2009, 19, 015117.	1.0	79
29	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/no-go experiments. <i>Psychophysiology</i> , 2013, 50, 253-265.	1.2	74
30	Hierarchical Connectome Modes and Critical State Jointly Maximize Human Brain Functional Diversity. <i>Physical Review Letters</i> , 2019, 123, 038301.	2.9	73
31	Frequency and phase locking of noise-sustained oscillations in coupled excitable systems: Array-enhanced resonances. <i>Physical Review E</i> , 2003, 67, 030101.	0.8	63
32	Hierarchical modular structure enhances the robustness of self-organized criticality in neural networks. <i>New Journal of Physics</i> , 2012, 14, 023005.	1.2	58
33	Reconstructing ERP amplitude effects after compensating for trial-to-trial latency jitter: A solution based on a novel application of residue iteration decomposition. <i>International Journal of Psychophysiology</i> , 2016, 109, 9-20.	0.5	45
34	Understanding the computation of time using neural network models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10530-10540.	3.3	42
35	Synchronization in small-world networks. <i>Chaos</i> , 2008, 18, 037111.	1.0	41
36	Spatiotemporal coherence resonance of phase synchronization in weakly coupled chaotic oscillators. <i>Physical Review E</i> , 2002, 65, 040101.	0.8	40

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37	Reciprocity of networks with degree correlations and arbitrary degree sequences. <i>Physical Review E</i> , 2008, 77, 016106.	0.8	39
38	Features of spatial and functional segregation and integration of the primate connectome revealed by trade-off between wiring cost and efficiency. <i>PLoS Computational Biology</i> , 2017, 13, e1005776.	1.5	39
39	Complexity versus modularity and heterogeneity in oscillatory networks: Combining segregation and integration in neural systems. <i>Physical Review E</i> , 2010, 82, 046225.	0.8	35
40	Global attractors and the difficulty of synchronizing serial spin-torque oscillators. <i>Physical Review B</i> , 2010, 82, .	1.1	34
41	Assessing spatiotemporal variability of brain spontaneous activity by multiscale entropy and functional connectivity. <i>NeuroImage</i> , 2019, 198, 198-220.	2.1	34
42	Interplay between structure and dynamics in adaptive complex networks: Emergence and amplification of modularity by adaptive dynamics. <i>Physical Review E</i> , 2011, 84, 016116.	0.8	33
43	Relative clock verifies endogenous bursts of human dynamics. <i>Europhysics Letters</i> , 2012, 97, 18006.	0.7	33
44	Cortex-Wide Dynamics of Intrinsic Electrical Activities: Propagating Waves and Their Interactions. <i>Journal of Neuroscience</i> , 2021, 41, 3665-3678.	1.7	33
45	Unfolding large-scale online collaborative human dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14627-14632.	3.3	32
46	Organization of Anti-Phase Synchronization Pattern in Neural Networks: What are the Key Factors?. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 100.	1.2	31
47	Co-emergence of multi-scale cortical activities of irregular firing, oscillations and avalanches achieves cost-efficient information capacity. <i>PLoS Computational Biology</i> , 2017, 13, e1005384.	1.5	30
48	Stochastic Oscillation in Self-Organized Critical States of Small Systems: Sensitive Resting State in Neural Systems. <i>Physical Review Letters</i> , 2016, 116, 018101.	2.9	29
49	Weighted networks are more synchronizable: how and why. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	28
50	Mapping from structure to dynamics: A unified view of dynamical processes on networks. <i>Physical Review E</i> , 2010, 82, 026116.	0.8	28
51	Better synchronizability in generalized adaptive networks. <i>Physical Review E</i> , 2010, 81, 026201.	0.8	28
52	Separating stimulus-driven and response-related LRP components with Residue Iteration Decomposition (RIDE). <i>Psychophysiology</i> , 2013, 50, 70-73.	1.2	28
53	Articulation Artifacts During Overt Language Production in Event-Related Brain Potentials: Description and Correction. <i>Brain Topography</i> , 2016, 29, 791-813.	0.8	25
54	Human comment dynamics in on-line social systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 5832-5837.	1.2	23

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55	Hopf Bifurcation in Mean Field Explains Critical Avalanches in Excitation-Inhibition Balanced Neuronal Networks: A Mechanism for Multiscale Variability. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 580011.	1.2	23
56	Competition between intra-community and inter-community synchronization and relevance in brain cortical networks. <i>Physical Review E</i> , 2011, 84, 016109.	0.8	22
57	Coupled perturbed heteroclinic cycles: Synchronization and dynamical behaviors of spin-torque oscillators. <i>Physical Review B</i> , 2011, 84, .	1.1	21
58	Spatial multi-scaled chimera states of cerebral cortex network and its inherent structure-dynamics relationship in human brain. <i>National Science Review</i> , 2021, 8, nwa125.	4.6	21
59	Fractional locking of spin-torque oscillator by injected ac current. <i>Physical Review B</i> , 2011, 83, .	1.1	19
60	Noise-Sustained Coherent Oscillation of Excitable Media in a Chaotic Flow. <i>Physical Review Letters</i> , 2003, 91, 150601.	2.9	18
61	Multiple synchronization attractors of serially connected spin-torque nanooscillators. <i>Physical Review B</i> , 2012, 86, .	1.1	18
62	Structural encoding processes contribute to individual differences in face and object cognition: Inferences from psychometric test performance and event-related brain potentials. <i>Cortex</i> , 2017, 95, 192-210.	1.1	18
63	The reliability and psychometric structure of Multi-Scale Entropy measured from EEG signals at rest and during face and object recognition tasks. <i>Journal of Neuroscience Methods</i> , 2019, 326, 108343.	1.3	18
64	Predicting reading ability from brain anatomy and function: From areas to connections. <i>NeuroImage</i> , 2020, 218, 116966.	2.1	18
65	Enhanced synchronizability in scale-free networks. <i>Chaos</i> , 2009, 19, 013105.	1.0	16
66	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. <i>Neural Networks</i> , 2020, 123, 381-392.	3.3	16
67	Re-Examination of Chinese Semantic Processing and Syntactic Processing: Evidence from Conventional ERPs and Reconstructed ERPs by Residue Iteration Decomposition (RIDE). <i>PLoS ONE</i> , 2015, 10, e0117324.	1.1	15
68	Individual Cortical Entropy Profile: Test-Retest Reliability, Predictive Power for Cognitive Ability, and Neuroanatomical Foundation. <i>Cerebral Cortex Communications</i> , 2020, 1, tga015.	0.7	15
69	Synchronization regimes in coupled noisy excitable systems. <i>Physical Review E</i> , 2001, 63, 026201.	0.8	14
70	Characterizing the complexity of brain and mind networks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3730-3747.	1.6	13
71	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 5046-5056.	6.2	13
72	Characterizing the brain's dynamical response from scalp-level neural electrical signals: a review of methodology development. <i>Cognitive Neurodynamics</i> , 2020, 14, 731-742.	2.3	13

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73	Gamma Oscillations Facilitate Effective Learning in Excitatory-Inhibitory Balanced Neural Circuits. <i>Neural Plasticity</i> , 2021, 2021, 1-18.	1.0	12
74	Patterns of individual differences in fiber tract integrity of the face processing brain network support neurofunctional models. <i>NeuroImage</i> , 2020, 204, 116229.	2.1	11
75	Dissociating the Influence of Affective Word Content and Cognitive Processing Demands on the Late Positive Potential. <i>Brain Topography</i> , 2016, 29, 82-93.	0.8	10
76	Information encoding in an oscillatory network. <i>Physical Review E</i> , 2009, 79, 061910.	0.8	9
77	Less is more: wiring-economical modular networks support self-sustained firing-economical neural avalanches for efficient processing. <i>National Science Review</i> , 2022, 9, nwab102.	4.6	9
78	Criticality enhances the multilevel reliability of stimulus responses in cortical neural networks. <i>PLoS Computational Biology</i> , 2022, 18, e1009848.	1.5	9
79	Symmetry-breaking on-off intermittency under modulation: Robustness of supersensitivity, resonance, and information gain. <i>Physical Review E</i> , 2000, 62, 1983-1987.	0.8	8
80	Complex brain networks: From topological communities to clustered dynamics. <i>Pramana - Journal of Physics</i> , 2008, 70, 1087-1097.	0.9	8
81	Mathematical Modeling for Description of Oscillation Suppression Induced by Deep Brain Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1649-1658.	2.7	8
82	Adaptive Reconfiguration of Intrinsic Community Structure in Children with 5-Year Abacus Training. <i>Cerebral Cortex</i> , 2021, 31, 3122-3135.	1.6	8
83	Network Evolution Induced by Asynchronous Stimuli through Spike-Timing-Dependent Plasticity. <i>PLoS ONE</i> , 2013, 8, e84644.	1.1	8
84	Synaptic changes modulate spontaneous transitions between tonic and bursting neural activities in coupled Hindmarsh-Rose neurons. <i>Physical Review E</i> , 2021, 104, 054407.	0.8	8
85	A Large-Scale High-Density Weighted Structural Connectome of the Macaque Brain Acquired by Predicting Missing Links. <i>Cerebral Cortex</i> , 2020, 30, 4771-4789.	1.6	7
86	Nature and nurture shape structural connectivity in the face processing brain network. <i>NeuroImage</i> , 2021, 229, 117736.	2.1	7
87	Closing the loop of DBS using the beta oscillations in cortex. <i>Cognitive Neurodynamics</i> , 2021, 15, 1157-1167.	2.3	7
88	Acute stress promotes brain network integration and reduces state transition variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	7
89	Spike Pattern Structure Influences Synaptic Efficacy Variability under STDP and Synaptic Homeostasis. I: Spike Generating Models on Converging Motifs. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 14.	1.2	6
90	Neuroanatomic localization of priming effects for famous faces with latency-corrected event-related potentials. <i>Brain Research</i> , 2016, 1632, 58-72.	1.1	6

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91	Repetition Priming Effects for Famous Faces through Dynamic Causal Modelling of Latencyâ€Corrected Eventâ€Related Brain Potentials. <i>European Journal of Neuroscience</i> , 2018, 49, 1330-1347.	1.2	6
92	Cognitive Performance in Young APOE Î¼4 Carriers: A Latent Variable Approach for Assessing the Genotypeâ€Phenotype Relationship. <i>Behavior Genetics</i> , 2019, 49, 455-468.	1.4	6
93	What Does Temporal Brain Signal Complexity Reveal About Verbal Creativity?. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 146.	1.0	6
94	A model of microsaccade-related neural responses induced by short-term depression in thalamocortical synapses. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 47.	1.2	5
95	COMT genotype is differentially associated with single trial variability of ERPs as a function of memory type. <i>Biological Psychology</i> , 2017, 127, 209-219.	1.1	5
96	Association of aerobic glycolysis with the structural connectome reveals a benefitâ€risk balancing mechanism in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2013232118.	3.3	5
97	Exploring Neural Signal Complexity as a Potential Link between Creative Thinking, Intelligence, and Cognitive Control. <i>Journal of Intelligence</i> , 2021, 9, 59.	1.3	5
98	Lifespan associations of resting-state brain functional networks with ADHD symptoms. <i>IScience</i> , 2022, 25, 104673.	1.9	5
99	Fast response and high sensitivity to microsaccades in a cascading-adaptation neural network with short-term synaptic depression. <i>Physical Review E</i> , 2016, 93, 042302.	0.8	4
100	Dynamic Configuration of Coactive Micropatterns in the Default Mode Network During Wakefulness and Sleep. <i>Brain Connectivity</i> , 2021, 11, 471-482.	0.8	4
101	Noise, Synchronization and Coherence in Chaotic Oscillators. <i>International Journal of Modern Physics B</i> , 2003, 17, 4023-4044.	1.0	3
102	Resonant patterns in noisy active media. <i>Physical Review E</i> , 2004, 69, 056210.	0.8	3
103	Finding type and location of the source of cardiac arrhythmias from the averaged flow velocity field using the determinant-trace method. <i>Physical Review E</i> , 2021, 104, 064401.	0.8	3
104	Multimodal Evidence of Atypical Processing of Eye Gaze and Facial Emotion in Children With Autistic Traits. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 733852.	1.0	3
105	Spike Pattern Structure Influences Synaptic Efficacy Variability under STDP and Synaptic Homeostasis. II: Spike Shuffling Methods on LIF Networks. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 83.	1.2	2
106	Model predictions of features in microsaccade-related neural responses in a feedforward network with short-term synaptic depression. <i>Scientific Reports</i> , 2016, 6, 20888.	1.6	2
107	Sex differences in behavioral and brain responses to incongruity in emotional speech controlling for autistic traits. <i>Biological Psychology</i> , 2020, 157, 107973.	1.1	2
108	Rational designing of oscillatory rhythmicity for memory rescue in plasticity-impaired learning networks. <i>Cell Reports</i> , 2022, 39, 110678.	2.9	2

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109	Rate-synchrony relationship between input and output of spike trains in neuronal networks. Physical Review E, 2010, 81, 011917.	0.8	1
110	What do neuroanatomical networks reveal about the ontology of human cognitive abilities?. IScience, 2022, 25, 104706.	1.9	1
111	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