

Zhe Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120 papers	2,318 citations	27 h-index	44 g-index
151 ext. papers	3,123 ext. citations	5.1 avg, IF	5.28 L-index

#	Paper	IF	Citations
120	Interictal EEG and ECG for SUDEP Risk Assessment: A Retrospective Multicenter Cohort Study.. <i>Frontiers in Neurology</i> , 2022 , 13, 858333	4.1	0
119	Sharp Tuning of Head Direction and Angular Head Velocity Cells in the Somatosensory Cortex.. <i>Advanced Science</i> , 2022 , e2200020	13.6	0
118	Real-Time Detection of Acute Pain Signals Based on Spikes/LFP 2022 , 1-26		
117	Research Progress of Electrical Stimulation in Ischemic Heart Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 761877	5.4	
116	Disrupted population coding in the prefrontal cortex underlies pain aversion. <i>Cell Reports</i> , 2021 , 37, 109978	10.6	0
115	Deep learning for robust detection of interictal epileptiform discharges. <i>Journal of Neural Engineering</i> , 2021 ,	5	10
114	Improving scalability in systems neuroscience. <i>Neuron</i> , 2021 , 109, 1776-1790	13.9	1
113	Pharmacological restoration of anti-nociceptive functions in the prefrontal cortex relieves chronic pain. <i>Progress in Neurobiology</i> , 2021 , 201, 102001	10.9	2
112	A prototype closed-loop brain-machine interface for the study and treatment of pain. <i>Nature Biomedical Engineering</i> , 2021 ,	19	4
111	Detecting acute pain signals from human EEG. <i>Journal of Neuroscience Methods</i> , 2021 , 347, 108964	3	6
110	Dopamine receptor D2 inhibition alleviates diabetic hepatic stellate cells fibrosis by regulating the TGF- β /Smads and NFB pathways. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2021 , 48, 370-380	3	4
109	Fear-induced brain activations distinguish anxious and trauma-exposed brains. <i>Translational Psychiatry</i> , 2021 , 11, 46	8.6	1
108	Predictive coding models for pain perception. <i>Journal of Computational Neuroscience</i> , 2021 , 49, 107-127	1.4	3
107	The impact of a closed-loop thalamocortical model on the spatiotemporal dynamics of cortical and thalamic traveling waves. <i>Scientific Reports</i> , 2021 , 11, 14359	4.9	1
106	A geometric framework for understanding dynamic information integration in context-dependent computation. <i>IScience</i> , 2021 , 24, 102919	6.1	2
105	Stimulus-Driven and Spontaneous Dynamics in Excitatory-Inhibitory Recurrent Neural Networks for Sequence Representation. <i>Neural Computation</i> , 2021 , 33, 2603-2645	2.9	2
104	Fear extinction learning modulates large-scale brain connectivity. <i>NeuroImage</i> , 2021 , 238, 118261	7.9	1

103	Exogenous spermine attenuates diabetic kidney injury in rats by inhibiting AMPK/mTOR signaling pathway. <i>International Journal of Molecular Medicine</i> , 2021 , 47,	4.4	6
102	Efficient Position Decoding Methods Based on Fluorescence Calcium Imaging in the Mouse Hippocampus. <i>Neural Computation</i> , 2020 , 32, 1144-1167	2.9	4
101	Granger causality analysis of rat cortical functional connectivity in pain. <i>Journal of Neural Engineering</i> , 2020 , 17, 016050	5	7
100	Mapping Cortical Integration of Sensory and Affective Pain Pathways. <i>Current Biology</i> , 2020 , 30, 1703-1715.e5	5.22	
99	Deep Learning Based on Standard H&E Images of Primary Melanoma Tumors Identifies Patients at Risk for Visceral Recurrence and Death. <i>Clinical Cancer Research</i> , 2020 , 26, 1126-1134	12.9	29
98	Sleep spindles as a diagnostic and therapeutic target for chronic pain. <i>Molecular Pain</i> , 2020 , 16, 1744806320903350	3.4	23
97	Ketamine normalizes high-gamma power in the anterior cingulate cortex in a rat chronic pain model. <i>Molecular Brain</i> , 2020 , 13, 129	4.5	2
96	Cortical Pain Processing in the Rat Anterior Cingulate Cortex and Primary Somatosensory Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 165	6.1	22
95	A deep learning approach for real-time detection of sleep spindles. <i>Journal of Neural Engineering</i> , 2019 , 16, 036004	5	18
94	Sleep oscillation-specific associations with Alzheimer's disease CSF biomarkers: novel roles for sleep spindles and tau. <i>Molecular Neurodegeneration</i> , 2019 , 14, 10	19	30
93	Dynamics of motor cortical activity during naturalistic feeding behavior. <i>Journal of Neural Engineering</i> , 2019 , 16, 026038	5	6
92	Neuromodulation for Pain Management. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1101, 207-223	3.6	7
91	Tracking Changes in Brain Network Connectivity under Transcranial Current Stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 6430-6433	0.9	
90	A Predictive Coding Model for Evoked and Spontaneous Pain Perception. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2964-2967	0.9	4
89	Ensembles of change-point detectors: implications for real-time BMI applications. <i>Journal of Computational Neuroscience</i> , 2019 , 46, 107-124	1.4	9
88	Methods for Assessment of Memory Reactivation. <i>Neural Computation</i> , 2018 , 30, 2175-2209	2.9	6
87	Inhibition of HMGB1 mediates neuroprotection of traumatic brain injury by modulating the microglia/macrophage polarization. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 497, 430-436	3.4	34
86	Latent Variable Modeling of Neural Population Dynamics 2018 , 53-82		

85	Scaling Up Cortical Control Inhibits Pain. <i>Cell Reports</i> , 2018 , 23, 1301-1313	10.6	31
84	Data Science in the Research Domain Criteria Era: Relevance of Machine Learning to the Study of Stress Pathology, Recovery, and Resilience. <i>Chronic Stress</i> , 2018 , 2,	3	16
83	Real-time particle filtering and smoothing algorithms for detecting abrupt changes in neural ensemble spike activity. <i>Journal of Neurophysiology</i> , 2018 , 119, 1394-1410	3.2	14
82	Real-Time Readout of Large-Scale Unsorted Neural Ensemble Place Codes. <i>Cell Reports</i> , 2018 , 25, 2635-2648.e5	4.8	5
81	Ketamine reduces aversion in rodent pain models by suppressing hyperactivity of the anterior cingulate cortex. <i>Nature Communications</i> , 2018 , 9, 3751	17.4	36
80	Local field potential decoding of the onset and intensity of acute pain in rats. <i>Scientific Reports</i> , 2018 , 8, 8299	4.9	12
79	Rate and Temporal Coding Mechanisms in the Anterior Cingulate Cortex for Pain Anticipation. <i>Scientific Reports</i> , 2018 , 8, 8298	4.9	13
78	A Primer on Neural Signal Processing. <i>IEEE Circuits and Systems Magazine</i> , 2017 , 17, 33-50	3.2	6
77	Deciphering neuronal population codes for acute thermal pain. <i>Journal of Neural Engineering</i> , 2017 , 14, 036023	5	24
76	Unfolding representations of trajectory coding in neuronal population spike activity 2017 ,		1
75	Deciphering Neural Codes of Memory during Sleep. <i>Trends in Neurosciences</i> , 2017 , 40, 260-275	13.3	38
74	A real-time rodent neural interface for deciphering acute pain signals from neuronal ensemble spike activity 2017 ,		6
73	Chronic pain induces generalized enhancement of aversion. <i>ELife</i> , 2017 , 6,	8.9	42
72	A Novel Nonparametric Maximum Likelihood Estimator for Probability Density Functions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 1294-1308	13.3	7
71	Quickest detection for abrupt changes in neuronal ensemble spiking activity using model-based and model-free approaches 2017 ,		8
70	Uncovering representations of sleep-associated hippocampal ensemble spike activity. <i>Scientific Reports</i> , 2016 , 6, 32193	4.9	17
69	2016 ,		1
68	A Bayesian nonparametric approach for uncovering rat hippocampal population codes during spatial navigation. <i>Journal of Neuroscience Methods</i> , 2016 , 263, 36-47	3	27

67	Bayesian Machine Learning: EEG/MEG signal processing measurements. <i>IEEE Signal Processing Magazine</i> , 2016 , 33, 14-36	9.4	65
66	A Novel Nonparametric Approach for Neural Encoding and Decoding Models of Multimodal Receptive Fields. <i>Neural Computation</i> , 2016 , 28, 1356-87	2.9	12
65	Bayesian nonparametric methods for discovering latent structures of rat hippocampal ensemble spikes 2016 ,		5
64	Statistical analysis of neuronal population codes for encoding acute pain 2016 ,		8
63	Probabilistic Common Spatial Patterns for Multichannel EEG Analysis. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 639-53	13.3	114
62	Estimating latent attentional states based on simultaneous binary and continuous behavioral measures. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 493769	3	2
61	Thalamic Circuit Mechanisms Link Sensory Processing in Sleep and Attention. <i>Frontiers in Neural Circuits</i> , 2015 , 9, 83	3.5	34
60	Bayesian decoding using unsorted spikes in the rat hippocampus. <i>Journal of Neurophysiology</i> , 2014 , 111, 217-27	3.2	64
59	Neural representation of spatial topology in the rodent hippocampus. <i>Neural Computation</i> , 2014 , 26, 1-39	2.9	89
58	State-dependent architecture of thalamic reticular subnetworks. <i>Cell</i> , 2014 , 158, 808-821	56.2	174
57	The complete mitochondrial genome of the Bristletail Songmachilis xinxiangensis (Archaeognatha: Machilidae). <i>Mitochondrial DNA</i> , 2013 , 24, 99-101		6
56	Anticancer activity in human multiple myeloma U266 cells: synergy between cryptotanshinone and arsenic trioxide. <i>Metallomics</i> , 2013 , 5, 871-8	4.5	20
55	An overview of Bayesian methods for neural spike train analysis. <i>Computational Intelligence and Neuroscience</i> , 2013 , 2013, 251905	3	36
54	In vivo and in vitro study on the role of 3,3-Tdiindolylmethane in treatment and prevention of nasopharyngeal carcinoma. <i>Carcinogenesis</i> , 2013 , 34, 1815-21	4.6	12
53	A variational nonparametric Bayesian approach for inferring rat hippocampal population codes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7092-5	0.9	1
52	Sparse Bayesian inference methods for decoding 3D reach and grasp kinematics and joint angles with primary motor cortical ensembles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5930-3	0.9	3
51	Activated RhoA is a positive feedback regulator of the Lbc family of Rho guanine nucleotide exchange factor proteins. <i>Journal of Biological Chemistry</i> , 2013 , 288, 11325-33	5.4	33
50	Indole-3-carbinol inhibits cell proliferation and induces apoptosis in Hep-2 laryngeal cancer cells. <i>Oncology Reports</i> , 2013 , 30, 227-33	3.5	11

49	State space model. <i>Scholarpedia Journal</i> , 2013 , 8, 30868	1.5	11
48	Uncovering spatial topology represented by rat hippocampal population neuronal codes. <i>Journal of Computational Neuroscience</i> , 2012 , 33, 227-55	1.4	29
47	Quinone reductase (QR) inducers from <i>Andrographis paniculata</i> and identification of molecular target of andrographolide. <i>Phytotherapy Research</i> , 2012 , 83, 1506-13	3.2	18
46	The complete mitochondrial genome of <i>Chrysopa pallens</i> (Insecta, Neuroptera, Chrysopidae). <i>Mitochondrial DNA</i> , 2012 , 23, 373-5		9
45	Adenoviral delivery of the EMX2 gene suppresses growth in human gastric cancer. <i>PLoS ONE</i> , 2012 , 7, e45970	3.7	13
44	A unified point process probabilistic framework to assess heartbeat dynamics and autonomic cardiovascular control. <i>Frontiers in Physiology</i> , 2012 , 3, 4	4.6	5
43	Point process time-frequency analysis of dynamic respiratory patterns during meditation practice. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 261-75	3.1	9
42	Mapping of visual receptive fields by tomographic reconstruction. <i>Neural Computation</i> , 2012 , 24, 2543-78.	7.9	6
41	Transductive neural decoding for unsorted neuronal spikes of rat hippocampus. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1310-3	0.9	11
40	A hierarchical Bayesian approach for learning sparse spatio-temporal decompositions of multichannel EEG. <i>NeuroImage</i> , 2011 , 56, 1929-45	7.9	39
39	Instantaneous assessment of autonomic cardiovascular control during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 8444-7	0.9	2
38	Statistical inference for assessing functional connectivity of neuronal ensembles with sparse spiking data. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2011 , 19, 121-35	4.8	42
37	Dynamic assessment of baroreflex control of heart rate during induction of propofol anesthesia using a point process method. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 260-76	4.7	40
36	Motor cortical networks for skilled movements have dynamic properties that are related to accurate reaching. <i>Neural Plasticity</i> , 2011 , 2011, 413543	3.3	2
35	Assessing neuronal interactions of cell assemblies during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 4175-8	0.9	4
34	Hierarchical Bayesian modeling of inter-trial variability and variational Bayesian learning of common spatial patterns from multichannel EEG 2010 ,		4
33	A differential autoregressive modeling approach within a point process framework for non-stationary heartbeat intervals analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3567-70	0.9	7
32	Variational Bayesian inference for point process generalized linear models in neural spike trains analysis 2010 ,		6

31	Characterizing nonlinear heartbeat dynamics within a point process framework. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1335-47	5	39
30	State Space Modeling of Neural Spike Train and Behavioral Data 2010 , 175-218		8
29	Discrete- and continuous-time probabilistic models and algorithms for inferring neuronal UP and DOWN states. <i>Neural Computation</i> , 2009 , 21, 1797-862	2.9	27
28	A regularized point process generalized linear model for assessing the functional connectivity in the cat motor cortex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4658-61	0.9	4
27	A probabilistic framework for learning robust common spatial patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4658-61	0.9	12
26	Assessment of autonomic control and respiratory sinus arrhythmia using point process models of human heart beat dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1791-802	5	42
25	Linear and nonlinear quantification of respiratory sinus arrhythmia during propofol general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5336-9	0.9	5
24	A unified point process framework for assessing heartbeat dynamics and cardiovascular control 2009 ,		1
23	Assessment of Baroreflex Control of Heart Rate During General Anesthesia Using a Point Process Method. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2009 , 2009, 333-336	1.6	4
22	A Study of Probabilistic Models for Characterizing Human Heart Beat Dynamics in Autonomic Blockade Control. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 , 481-484	1.6	11
21	Characterizing nonlinear heartbeat dynamics within a point process framework. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 2781-4	0.9	7
20	An empirical EEG analysis in brain death diagnosis for adults. <i>Cognitive Neurodynamics</i> , 2008 , 2, 257-71	4.2	38
19	Advanced EEG Signal Processing in Brain Death Diagnosis 2008 , 275-298		14
18	2007 ,		22
17	Statistical modeling and analysis of laser-evoked potentials of electrocorticogram recordings from awake humans. <i>Computational Intelligence and Neuroscience</i> , 2007 , 2007, 10479	3	8
16	An empirical quantitative EEG analysis for evaluating clinical brain death. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 3880-3		5
15	Monitoring sleepiness with on-board electrophysiological recordings for preventing sleep-deprived traffic accidents. <i>Clinical Neurophysiology</i> , 2007 , 118, 1906-22	4.3	189
14	Modified Modulated Hebb-Oja Learning Rule: A Method for Biologically Plausible Principal Component Analysis. <i>Lecture Notes in Computer Science</i> , 2007 , 527-536	0.9	1

13	Analysis of Feasible Solutions of the ICA Problem Under the One-Bit-Matching Condition. <i>Lecture Notes in Computer Science</i> , 2006 , 838-845	0.9	1
12	The cocktail party problem. <i>Neural Computation</i> , 2005 , 17, 1875-902	2.9	245
11	Stochastic correlative firing for figure-ground segregation. <i>Biological Cybernetics</i> , 2005 , 92, 192-8	2.8	3
10	A novel model-based hearing compensation design using a gradient-free optimization method. <i>Neural Computation</i> , 2005 , 17, 2648-71	2.9	7
9	Stochastic correlative learning algorithms. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 2200-2209	4.8	12
8	On different facets of regularization theory. <i>Neural Computation</i> , 2002 , 14, 2791-846	2.9	88
7	A dynamic point process framework for assessing heartbeat dynamics and cardiovascular functions302-329		
6	Estimating state and parameters in state space models of spike trains137-159		14
5	Improved particle filtering schemes for target tracking		1
4	Spiking Recurrent Neural Networks Represent Task-Relevant Neural Sequences in Rule-Dependent Computation. <i>Cognitive Computation</i> ,1	4.4	0
3	Thalamocortical network connectivity controls spatiotemporal dynamics of cortical and thalamic traveling waves		2
2	A compact spatial map in V2 visual cortex		1
1	Probabilistic approaches to uncover rat hippocampal population codes186-206		