

Lei Ding

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,167
citations

331259

21
h-index

243296

44
g-index

82
all docs

82
docs citations

82
times ranked

2325
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of different cortical connectivity estimators for high-resolution EEG recordings. <i>Human Brain Mapping</i> , 2007, 28, 143-157.	1.9	317
2	Motor imagery classification by means of source analysis for brain-computer interface applications. <i>Journal of Neural Engineering</i> , 2004, 1, 135-141.	1.8	189
3	Ictal source analysis: Localization and imaging of causal interactions in humans. <i>NeuroImage</i> , 2007, 34, 575-586.	2.1	171
4	Low resolution brain electromagnetic tomography in a realistic geometry head model: a simulation study. <i>Physics in Medicine and Biology</i> , 2005, 50, 45-56.	1.6	155
5	Estimation of Time-Varying Connectivity Patterns Through the Use of an Adaptive Directed Transfer Function. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2557-2564.	2.5	130
6	Decoding Individual Finger Movements from One Hand Using Human EEG Signals. <i>PLoS ONE</i> , 2014, 9, e85192.	1.1	121
7	Sparse source imaging in electroencephalography with accurate field modeling. <i>Human Brain Mapping</i> , 2008, 29, 1053-1067.	1.9	112
8	Reconstructing cortical current density by exploring sparseness in the transform domain. <i>Physics in Medicine and Biology</i> , 2009, 54, 2683-2697.	1.6	80
9	Reconstructing Large-Scale Brain Resting-State Networks from High-Resolution EEG: Spatial and Temporal Comparisons with fMRI. <i>Brain Connectivity</i> , 2016, 6, 122-135.	0.8	62
10	Lasting Modulation Effects of rTMS on Neural Activity and Connectivity as Revealed by Resting-State EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2070-2080.	2.5	60
11	Reconstructing spatially extended brain sources via enforcing multiple transform sparseness. <i>NeuroImage</i> , 2014, 86, 280-293.	2.1	56
12	ICA-Derived EEG Correlates to Mental Fatigue, Effort, and Workload in a Realistically Simulated Air Traffic Control Task. <i>Frontiers in Neuroscience</i> , 2017, 11, 297.	1.4	51
13	Probing neural activations from continuous EEG in a real-world task: Time-frequency independent component analysis. <i>Journal of Neuroscience Methods</i> , 2012, 209, 22-34.	1.3	43
14	EEG Source Imaging: Correlating Source Locations and Extents With Electrocorticography and Surgical Resections in Epilepsy Patients. <i>Journal of Clinical Neurophysiology</i> , 2007, 24, 130-136.	0.9	39
15	Simultaneous EEG and MEG source reconstruction in sparse electromagnetic source imaging. <i>Human Brain Mapping</i> , 2013, 34, 775-795.	1.9	35
16	Automated Detection of High Frequency Oscillations in Intracranial EEG Using the Combination of Short-Time Energy and Convolutional Neural Networks. <i>IEEE Access</i> , 2019, 7, 82501-82511.	2.6	31
17	Spatio-temporal EEG source localization using a three-dimensional subspace FINE approach in a realistic geometry inhomogeneous head model. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 1732-1739.	2.5	29
18	Detection of EEG Spatial-Spectral-Temporal Signatures of Errors: A Comparative Study of ICA-Based and Channel-Based Methods. <i>Brain Topography</i> , 2015, 28, 47-61.	0.8	26

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19	Resting State Functional Connectivity Signature of Treatment Effects of Repetitive Transcranial Magnetic Stimulation in Mal de Debarquement Syndrome. <i>Brain Connectivity</i> , 2017, 7, 617-626.	0.8	26
20	Evaluation of EEG Features in Decoding Individual Finger Movements from One Hand. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-10.	0.7	25
21	Electrophysiological signatures of atypical intrinsic brain connectivity networks in autism. <i>Journal of Neural Engineering</i> , 2017, 14, 046010.	1.8	25
22	3D source localization of interictal spikes in epilepsy patients with MRI lesions. <i>Physics in Medicine and Biology</i> , 2006, 51, 4047-4062.	1.6	20
23	Correcting physiological noise in whole-head functional near-infrared spectroscopy. <i>Journal of Neuroscience Methods</i> , 2021, 360, 109262.	1.3	20
24	A new wavelet transform to sparsely represent cortical current densities for EEG/MEG inverse problems. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 111, 376-388.	2.6	19
25	Combining multiple features for error detection and its application in brain-computer interface. <i>BioMedical Engineering OnLine</i> , 2016, 15, 17.	1.3	18
26	Sparse imaging of cortical electrical current densities via wavelet transforms. <i>Physics in Medicine and Biology</i> , 2012, 57, 6881-6901.	1.6	17
27	Source localization of high-frequency activity in tripolar electroencephalography of patients with epilepsy. <i>Epilepsy and Behavior</i> , 2019, 101, 106519.	0.9	17
28	EEG resolutions in detecting and decoding finger movements from spectral analysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 308.	1.4	15
29	Electrophysiological Signatures of Intrinsic Functional Connectivity Related to rTMS Treatment for Mal de Debarquement Syndrome. <i>Brain Topography</i> , 2018, 31, 1047-1058.	0.8	15
30	Multimodal Imaging of Repetitive Transcranial Magnetic Stimulation Effect on Brain Network: A Combined Electroencephalogram and Functional Magnetic Resonance Imaging Study. <i>Brain Connectivity</i> , 2019, 9, 311-321.	0.8	15
31	Electrophysiological Mapping and Neuroimaging. , 2013, , 499-543.		15
32	Sparse cortical current density imaging in motor potentials induced by finger movement. <i>Journal of Neural Engineering</i> , 2011, 8, 036008.	1.8	14
33	Characterization of infant mu rhythm immediately before crawling: A high-resolution EEG study. <i>NeuroImage</i> , 2017, 146, 47-57.	2.1	14
34	Cortical Statistical Correlation Tomography of EEG Resting State Networks. <i>Frontiers in Neuroscience</i> , 2018, 12, 365.	1.4	12
35	EEG Pattern Analysis for Physiological Indicators of Mental Fatigue in Simulated Air Traffic Control Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2010, 54, 205-209.	0.2	11
36	Neural Manifestations of Implicit Self-Esteem: An ERP Study. <i>PLoS ONE</i> , 2014, 9, e101837.	1.1	10

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37	Changes of symptom and EEG in mal de débarquement syndrome patients after repetitive transcranial magnetic stimulation over bilateral prefrontal cortex: A pilot study. , 2014, 2014, 4294-7.		10
38	Resting-state Gamma-band EEG Abnormalities in Autism. , 2018, 2018, 1915-1918.		10
39	Whole-brain electrophysiological functional connectivity dynamics in resting-state EEG. Journal of Neural Engineering, 2020, 17, 026016.	1.8	10
40	Frontal theta EEG dynamics in a real-world air traffic control task. , 2013, 2013, 5594-7.		9
41	Application of Compressive Sensing to Refractivity Retrieval Using Networked Weather Radars. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2799-2809.	2.7	8
42	Neuroimaging Markers of Mal de Débarquement Syndrome. Frontiers in Neurology, 2021, 12, 636224.	1.1	8
43	Brain-wide functional diffuse optical tomography of resting state networks. Journal of Neural Engineering, 2021, 18, 046069.	1.8	8
44	Superficial Fluctuations in Functional Near-Infrared Spectroscopy. , 2019, 2019, 4779-4782.		7
45	Sparse MEG Source Imaging For Reconstructing Dynamic Sources of Interictal Spikes in Partial Epilepsy. Journal of Clinical Neurophysiology, 2013, 30, 313-328.	0.9	6
46	Improved Transient Response Estimations in Predicting 40 Hz Auditory Steady-State Response Using Deconvolution Methods. Frontiers in Neuroscience, 2017, 11, 697.	1.4	6
47	Three-Dimensional Imaging of Complex Neural Activation in Humans From EEG. IEEE Transactions on Biomedical Engineering, 2009, 56, 1980-1988.	2.5	5
48	Ongoing EEG oscillatory dynamics suggesting evolution of mental fatigue in a color-word matching stroop task. , 2013, , .		5
49	Pre-stimulus alpha and post-stimulus N2 foreshadow imminent errors in a single task. Neuropsychologia, 2015, 77, 346-358.	0.7	5
50	Channel-Wise Characterization of High Frequency Oscillations for Automated Identification of the Seizure Onset Zone. IEEE Access, 2020, 8, 45531-45543.	2.6	5
51	Electrophysiological Mapping and Source Imaging. , 2020, , 379-413.		5
52	Discriminating multiple motor imageries of human hands using EEG. , 2012, 2012, 1773-6.		4
53	Investigation of independent components based EEG metrics for mental fatigue in simulated ATC task. , 2013, , .		4
54	Electrophysiological resting state brain network and episodic memory in healthy aging adults. NeuroImage, 2022, 253, 118926.	2.1	4

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55	New metric for optimizing Continuous Loop Averaging Deconvolution (CLAD) sequences under the 1/f noise model. PLoS ONE, 2017, 12, e0175354.	1.1	3
56	Dynamic Activation Patterns of the Motor Brain Revealed by Diffuse Optical Tomography *. , 2019, 2019, 6028-6031.		3
57	Age-related changes of whole-brain dynamics in spontaneous neuronal coactivations. Scientific Reports, 2022, 12, .	1.6	3
58	Brain-wide neural co-activations in resting human. NeuroImage, 2022, 260, 119461.	2.1	3
59	Variation-based Sparse Cortical Current Density imaging in estimating cortical sources with MEG data. , 2010, 2010, 5145-8.		2
60	Inverse source imaging methods in recovering distributed brain sources. Biomedical Engineering Letters, 2012, 2, 2-7.	2.1	2
61	Neural markers for immediate performance accuracy in a Stroop color-word matching task: An event-related potentials analysis. , 2014, 2014, 6222-5.		2
62	Noise Attenuation Estimation for Maximum Length Sequences in Deconvolution Process of Auditory Evoked Potentials. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-9.	0.7	2
63	Reconstructing Cortical Intrinsic Connectivity Networks Using a Regression Method Combining EEG Data from Sensor and Source Levels. , 2019, 2019, 1698-1701.		2
64	Brain network effects by continuous theta burst stimulation in mal de d'Arquequet syndrome: simultaneous EEG and fMRI study. Journal of Neural Engineering, 2021, 18, 066025.	1.8	2
65	Investigation of EEG and MEG source imaging accuracy in reconstructing extended cortical sources. , 2011, 2011, 7013-6.		1
66	Evaluations of sparse source imaging and minimum norm estimate methods in both simulation and clinical MEG data. , 2012, 2012, 6744-7.		1
67	Computational Methods in Neuroengineering. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-2.	0.7	1
68	Classification of finger pairs from one hand based on spectral features in human EEG. , 2014, 2014, 1263-6.		1
69	EEG-based single-trial detection of errors from multiple error-related brain activity. , 2016, 2016, 2764-2767.		1
70	Universal design for learning in the framework of neuroscience-based education and Neuroimaging-based assessment. , 2017, , .		1
71	Brain-Wide Diffuse Optical Tomography Based on Cap-Based, Whole-Head fNIRS Recording. , 2021, 2021, 3609-3612.		1
72	Multiple Dipole Sources Localization from the Scalp EEG Using a High-resolution Subspace Approach. , 2005, 2005, 1075-8.		0

#	ARTICLE	IF	CITATIONS
73	Sparse electromagnetic source imaging using EEG and MEG. , 2012, 2012, 6224-7.		0
74	Wavelet-based sparse source imaging in localizing epileptic sources for partial epilepsy. , 2013, , .		0
75	Wavelet based sparse source imaging technique. , 2013, 2013, 5418-21.		0
76	Monitoring Mental States of the Human Brain in Action: From Cognitive Test to Real-World Simulations. Lecture Notes in Computer Science, 2015, , 178-186.	1.0	0
77	A comparison study of nonlinear and linear metrics in probing intrinsic brain networks from EEG data. , 2017, , .		0
78	Dynamic spatio-spectral patterns of rhythmic EEG in infants. , 2017, , .		0
79	Multi-phase locking value: A generalized method for determining instantaneous multi-frequency phase coupling. Biomedical Signal Processing and Control, 2022, 74, 103492.	3.5	0