Lei Ding

List of Publications by Year
in descending order

79 papers	2,167 citations	331670 21 h-index	243625 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. Human Brain Mapping, 2007, 28, 143-157.	3.6	317
2	Motor imagery classification by means of source analysis for brain–computer interface applications. Journal of Neural Engineering, 2004, 1, 135-141.	3.5	189
3	Ictal source analysis: Localization and imaging of causal interactions in humans. NeuroImage, 2007, 34, 575-586.	4.2	171
4	Low resolution brain electromagnetic tomography in a realistic geometry head model: a simulation study. Physics in Medicine and Biology, 2005, 50, 45-56.	3.0	155
5	Estimation of Time-Varying Connectivity Patterns Through the Use of an Adaptive Directed Transfer Function. IEEE Transactions on Biomedical Engineering, 2008, 55, 2557-2564.	4.2	130
6	Decoding Individual Finger Movements from One Hand Using Human EEG Signals. PLoS ONE, 2014, 9, e85192.	2.5	121
7	Sparse source imaging in electroencephalography with accurate field modeling. Human Brain Mapping, 2008, 29, 1053-1067.	3.6	112
8	Reconstructing cortical current density by exploring sparseness in the transform domain. Physics in Medicine and Biology, 2009, 54, 2683-2697.	3.0	80
9	Reconstructing Large-Scale Brain Resting-State Networks from High-Resolution EEG: Spatial and Temporal Comparisons with fMRI. Brain Connectivity, 2016, 6, 122-135.	1.7	62
10	Lasting Modulation Effects of rTMS on Neural Activity and Connectivity as Revealed by Resting-State EEG. IEEE Transactions on Biomedical Engineering, 2014, 61, 2070-2080.	4.2	60
11	Reconstructing spatially extended brain sources via enforcing multiple transform sparseness. NeuroImage, 2014, 86, 280-293.	4.2	56
12	ICA-Derived EEG Correlates to Mental Fatigue, Effort, and Workload in a Realistically Simulated Air Traffic Control Task. Frontiers in Neuroscience, 2017, 11, 297.	2.8	51
13	Probing neural activations from continuous EEG in a real-world task: Time-frequency independent component analysis. Journal of Neuroscience Methods, 2012, 209, 22-34.	2.5	43
14	EEG Source Imaging: Correlating Source Locations and Extents With Electrocorticography and Surgical Resections in Epilepsy Patients. Journal of Clinical Neurophysiology, 2007, 24, 130-136.	1.7	39
15	Simultaneous EEG and MEG source reconstruction in sparse electromagnetic source imaging. Human Brain Mapping, 2013, 34, 775-795.	3.6	35
16	Automated Detection of High Frequency Oscillations in Intracranial EEG Using the Combination of Short-Time Energy and Convolutional Neural Networks. IEEE Access, 2019, 7, 82501-82511.	4.2	31
17	Spatio-temporal EEG source localization using a three-dimensional subspace FINE approach in a realistic geometry inhomogeneous head model. IEEE Transactions on Biomedical Engineering, 2006, 53, 1732-1739.	4.2	29
18	Detection of EEG Spatial–Spectral–Temporal Signatures of Errors: A Comparative Study of ICA-Based and Channel-Based Methods. Brain Topography, 2015, 28, 47-61.	1.8	26

#	Article	IF	Citations
19	Resting State Functional Connectivity Signature of Treatment Effects of Repetitive Transcranial Magnetic Stimulation in Mal de Debarquement Syndrome. Brain Connectivity, 2017, 7, 617-626.	1.7	26
20	Evaluation of EEG Features in Decoding Individual Finger Movements from One Hand. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	1.3	25
21	Electrophysiological signatures of atypical intrinsic brain connectivity networks in autism. Journal of Neural Engineering, 2017, 14, 046010.	3.5	25
22	3D source localization of interictal spikes in epilepsy patients with MRI lesions. Physics in Medicine and Biology, 2006, 51, 4047-4062.	3.0	20
23	Correcting physiological noise in whole-head functional near-infrared spectroscopy. Journal of Neuroscience Methods, 2021, 360, 109262.	2.5	20
24	A new wavelet transform to sparsely represent cortical current densities for EEG/MEG inverse problems. Computer Methods and Programs in Biomedicine, 2013, 111, 376-388.	4.7	19
25	Combining multiple features for error detection and its application in brain–computer interface. BioMedical Engineering OnLine, 2016, 15, 17.	2.7	18
26	Sparse imaging of cortical electrical current densities via wavelet transforms. Physics in Medicine and Biology, 2012, 57, 6881-6901.	3.0	17
27	Source localization of high-frequency activity in tripolar electroencephalography of patients with epilepsy. Epilepsy and Behavior, 2019, 101, 106519.	1.7	17
28	EEG resolutions in detecting and decoding finger movements from spectral analysis. Frontiers in Neuroscience, 2015, 9, 308.	2.8	15
29	Electrophysiological Signatures of Intrinsic Functional Connectivity Related to rTMS Treatment for Mal de Debarquement Syndrome. Brain Topography, 2018, 31, 1047-1058.	1.8	15
30	Multimodal Imaging of Repetitive Transcranial Magnetic Stimulation Effect on Brain Network: A Combined Electroencephalogram and Functional Magnetic Resonance Imaging Study. Brain Connectivity, 2019, 9, 311-321.	1.7	15
31	Electrophysiological Mapping and Neuroimaging. , 2013, , 499-543.		15
32	Sparse cortical current density imaging in motor potentials induced by finger movement. Journal of Neural Engineering, 2011, 8, 036008.	3.5	14
33	Characterization of infant mu rhythm immediately before crawling: A high-resolution EEG study. NeuroImage, 2017, 146, 47-57.	4.2	14
34	Cortical Statistical Correlation Tomography of EEG Resting State Networks. Frontiers in Neuroscience, 2018, 12, 365.	2.8	12
35	EEG Pattern Analysis for Physiological Indicators of Mental Fatigue in Simulated Air Traffic Control Tasks. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 205-209.	0.3	11
36	Neural Manifestations of Implicit Self-Esteem: An ERP Study. PLoS ONE, 2014, 9, e101837.	2.5	10

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37	Changes of symptom and EEG in mal de debarquement 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.	3.5	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.	6.3	8
42	Neuroimaging Markers of Mal de Débarquement Syndrome. Frontiers in Neurology, 2021, 12, 636224.	2.4	8
43	Brain-wide functional diffuse optical tomography of resting state networks. Journal of Neural Engineering, 2021, 18, 046069.	3.5	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.	1.7	6
46	Improved Transient Response Estimations in Predicting 40 Hz Auditory Steady-State Response Using Deconvolution Methods. Frontiers in Neuroscience, 2017, 11, 697.	2.8	6
47	Three-Dimensional Imaging of Complex Neural Activation in Humans From EEG. IEEE Transactions on Biomedical Engineering, 2009, 56, 1980-1988.	4.2	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.	1.6	5
50	Channel-Wise Characterization of High Frequency Oscillations for Automated Identification of the Seizure Onset Zone. IEEE Access, 2020, 8, 45531-45543.	4.2	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.	4.2	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.	2.5	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, .	3.3	3
58	Brain-wide neural co-activations in resting human. NeuroImage, 2022, 260, 119461.	4.2	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.	4.1	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.	1.3	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 débarquement syndrome: simultaneous EEG and fMRI study. Journal of Neural Engineering, 2021, 18, 066025.	3.5	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.	1.3	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.	1.3	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.	5.7	0