Guofa Shou

List of Publications by Year
in descending order

47 papers	614 citations	623734 14 h-index	642732 23 g-index
49 all docs	49 docs citations	49 times ranked	619 citing authors

#	Article	IF	Citations
1	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
2	Truncated Total Least Squares: A New Regularization Method for the Solution of ECG Inverse Problems. IEEE Transactions on Biomedical Engineering, 2008, 55, 1327-1335.	4.2	53
3	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
4	MRI Coil Design Using Boundary-Element Method With Regularization Technique: A Numerical Calculation Study. IEEE Transactions on Magnetics, 2010, 46, 1052-1059.	2.1	43
5	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
6	Combination of the LSQR method and a genetic algorithm for solving the electrocardiography inverse problem. Physics in Medicine and Biology, 2007, 52, 1277-1294.	3.0	37
7	On epicardial potential reconstruction using regularization schemes with the L1-norm data term. Physics in Medicine and Biology, 2011, 56, 57-72.	3.0	26
8	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
9	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
10	Electrophysiological signatures of atypical intrinsic brain connectivity networks in autism. Journal of Neural Engineering, 2017, 14, 046010.	3.5	25
11	Effect of Cardiac Motion on Solution of the Electrocardiography Inverse Problem. IEEE Transactions on Biomedical Engineering, 2009, 56, 923-931.	4.2	15
12	Electrophysiological Signatures of Intrinsic Functional Connectivity Related to rTMS Treatment for Mal de Debarquement Syndrome. Brain Topography, 2018, 31, 1047-1058.	1.8	15
13	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
14	Two hybrid regularization frameworks for solving the electrocardiography inverse problem. Physics in Medicine and Biology, 2008, 53, 5151-5164.	3.0	14
15	Application of kernel principal component analysis and support vector regression for reconstruction of cardiac transmembrane potentials. Physics in Medicine and Biology, 2011, 56, 1727-1742.	3.0	13
16	Total Variation Regularization in Electrocardiographic Mapping. Lecture Notes in Computer Science, 2010, , 51-59.	1.3	13
17	Cortical Statistical Correlation Tomography of EEG Resting State Networks. Frontiers in Neuroscience, 2018, 12, 365.	2.8	12
18	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

#	Article	IF	Citations
19	Resting-state Gamma-band EEG Abnormalities in Autism. , 2018, 2018, 1915-1918.		10
20	Whole-brain electrophysiological functional connectivity dynamics in resting-state EEG. Journal of Neural Engineering, 2020, 17, 026016.	3.5	10
21	Mechanical analysis of congestive heart failure caused by bundle branch block based on an electromechanical canine heart model. Physics in Medicine and Biology, 2009, 54, 353-371.	3.0	9
22	The application of subspace preconditioned LSQR algorithm for solving the electrocardiography inverse problem. Medical Engineering and Physics, 2009, 31, 979-985.	1.7	9
23	Frontal theta EEG dynamics in a real-world air traffic control task. , 2013, 2013, 5594-7.		9
24	Solving the ECG Forward Problem by Means of Standard h- and h-Hierarchical Adaptive Linear Boundary Element Method: Comparison With Two Refinement Schemes. IEEE Transactions on Biomedical Engineering, 2009, 56, 1454-1464.	4.2	8
25	Magnetocardiography Simulation Based on an Electrodynamic Heart Model. IEEE Transactions on Magnetics, 2011, 47, 2224-2230.	2.1	8
26	A Hybrid Model of Maximum Margin Clustering Method and Support Vector Regression for Noninvasive Electrocardiographic Imaging. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-9.	1.3	8
27	A Study of Mechanical Optimization Strategy for Cardiac Resynchronization Therapy Based on an Electromechanical Model. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-13.	1.3	6
28	Ongoing EEG oscillatory dynamics suggesting evolution of mental fatigue in a color-word matching stroop task. , 2013, , .		5
29	Pre-stimulus alpha and post-stimulus N2 foreshadow imminent errors in a single task. Neuropsychologia, 2015, 77, 346-358.	1.6	5
30	Optimizing rTMS treatment of a balance disorder with EEG neural synchrony and functional connectivity. , 2016, 2016, 53-56.		5
31	Investigation of independent components based EEG metrics for mental fatigue in simulated ATC task. , 2013, , .		4
32	Assessing rTMS effects in MdDS: Cross-modal comparison between resting state EEG and fMRI connectivity. , 2017, 2017, 1950-1953.		4
33	Brain-wide neural co-activations in resting human. NeuroImage, 2022, 260, 119461.	4.2	3
34	Solving the Electrocardiography Inverse Problem by Using an Optimal Algorithm Based on the Total Least Squares TheoryÂÂÂ. , 2007, , .		2
35	The Use of Genetic Algorithms for Optimizing the Regularized Solutions of the Ill-Posed Problems. , 2008, , .		2
36	Effect of Body Positions on EEG signals in Mal de Debarquement Syndrome. , 2018, 2018, 1931-1934.		2

#	Article	IF	Citations
37	Reconstructing Cortical Intrinsic Connectivity Networks Using a Regression Method Combining EEG Data from Sensor and Source Levels. , 2019, 2019, 1698-1701.		2
38	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
39	Choosing Near-Optimal Regularization Parameter for the Inverse Problem of Electrocardiography. , 2009, , .		1
40	A Finite-Difference Method for the Design of Biplanar Transverse Gradient Coil in MRI. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
41	EEG-based single-trial detection of errors from multiple error-related brain activity. , 2016, 2016, 2764-2767.		1
42	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
43	A comparison study of nonlinear and linear metrics in probing intrinsic brain networks from EEG data. , 2017, , .		0
44	Combining Regularization Frameworks for Solving the Electrocardiography Inverse Problem. Communications in Computer and Information Science, 2007, , 1210-1219.	0.5	0
45	Relation of Infarct Location and Size to Extent of Infarct Expansion After Acute Myocardial Infarction: A Quantitative Study Based on a Canine Model. Lecture Notes in Computer Science, 2010, , 316-324.	1.3	0
46	Noninvasive Electroardiographic Imaging: Application of Hybrid Methods for Solving the Electrocardiography Inverse Problem. , 2007, , 269-279.		0
47	The Use of Genetic Algorithms for Solving the Inverse Problem of Electrocardiography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0