Sarang S Dalal

List of Publications by Year
in descending order

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50 papers	3,379 citations	159585 30 h-index	214800 47 g-index
58 all docs	58 docs citations	58 times ranked	3671 citing authors

#	Article	IF	Citations
1	Five-dimensional neuroimaging: Localization of the timeâ€“frequency dynamics of cortical activity. NeuroImage, 2008, 40, 1686-1700.	4.2	249
2	Taskâ€related gammaâ€band dynamics from an intracerebral perspective: Review and implications for surface EEG and MEG. Human Brain Mapping, 2009, 30, 1758-1771.	3.6	222
3	Mapping functional connectivity in patients with brain lesions. Annals of Neurology, 2008, 63, 193-203.	5.3	214
4	Spatiotemporal dynamics of word processing in the human brain. Frontiers in Neuroscience, 2007, 1, 185-196.	2.8	201
5	Spatiotemporal imaging of cortical activation during verb generation and picture naming. NeuroImage, 2010, 50, 291-301.	4.2	185
6	Prestimulus Oscillatory Phase at 7ÂHz Gates Cortical Information Flow and Visual Perception. Current Biology, 2013, 23, 2273-2278.	3.9	145
7	Modified Beamformers for Coherent Source Region Suppression. IEEE Transactions on Biomedical Engineering, 2006, 53, 1357-1363.	4.2	142
8	Comparison of Timeâ€“Frequency Responses and the Event-Related Potential to Auditory Speech Stimuli in Human Cortex. Journal of Neurophysiology, 2009, 102, 377-386.	1.8	142
9	Hierarchy of prediction errors for auditory events in human temporal and frontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6755-6760.	7.1	129
10	Simultaneous MEG and intracranial EEG recordings during attentive reading. NeuroImage, 2009, 45, 1289-1304.	4.2	122
11	Category-Specific Visual Responses: An Intracranial Study Comparing Gamma, Beta, Alpha, and ERP Response Selectivity. Frontiers in Human Neuroscience, 2010, 4, 195.	2.0	105
12	MEG/EEG Source Reconstruction, Statistical Evaluation, and Visualization with NUTMEG. Computational Intelligence and Neuroscience, 2011, 2011, 1-17.	1.7	104
13	Exploring the electrophysiological correlates of the default-mode network with intracerebral EEG. Frontiers in Systems Neuroscience, 2010, 4, 27.	2.5	101
14	Reducing power line noise in EEG and MEG data via spectrum interpolation. NeuroImage, 2019, 189, 763-776.	4.2	91
15	Can EEG and MEG detect signals from the human cerebellum?. NeuroImage, 2020, 215, 116817.	4.2	90
16	Localization of neurosurgically implanted electrodes via photographâ€“MRIâ€“radiograph coregistration. Journal of Neuroscience Methods, 2008, 174, 106-115.	2.5	88
17	Reading the mind's eye: Online detection of visuo-spatial working memory and visual imagery in the inferior temporal lobe. NeuroImage, 2012, 59, 872-879.	4.2	68
18	Cortical Spatio-temporal Dynamics Underlying Phonological Target Detection in Humans. Journal of Cognitive Neuroscience, 2011, 23, 1437-1446.	2.3	66

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19	Bicycling and Walking are Associated with Different Cortical Oscillatory Dynamics. Frontiers in Human Neuroscience, 2016, 10, 61.	2.0	65
20	Consequences of EEG electrode position error on ultimate beamformer source reconstruction performance. Frontiers in Neuroscience, 2014, 8, 42.	2.8	63
21	Coupling between human brain activity and body movements: Insights from non-invasive electromagnetic recordings. NeuroImage, 2019, 203, 116177.	4.2	62
22	Efficient â€œPop-Outâ€•Visual Search Elicits Sustained Broadband Gamma Activity in the Dorsal Attention Network. Journal of Neuroscience, 2012, 32, 3414-3421.	3.6	61
23	Epilepsy, cognition, and neuropsychiatry (Epilepsy, Brain, and Mind, part 2). Epilepsy and Behavior, 2013, 28, 283-302.	1.7	55
24	Localization of cortico-peripheral coherence with electroencephalography. NeuroImage, 2011, 57, 1348-1357.	4.2	53
25	A unified view on beamformers for M/EEG source reconstruction. NeuroImage, 2022, 246, 118789.	4.2	50
26	Bicycling suppresses abnormal beta synchrony in the Parkinsonian basal ganglia. Annals of Neurology, 2017, 82, 592-601.	5.3	49
27	Comparison of beamformer implementations for MEG source localization. NeuroImage, 2020, 216, 116797.	4.2	48
28	Characterizing hippocampal dynamics with MEG: A systematic review and evidenceâ€based guidelines. Human Brain Mapping, 2019, 40, 1353-1375.	3.6	45
29	Slow-theta power decreases during item-place encoding predict spatial accuracy of subsequent context recall. NeuroImage, 2016, 142, 533-543.	4.2	44
30	Oscillatory activity of the human cerebellum: The intracranial electrocerebellogram revisited. Neuroscience and Biobehavioral Reviews, 2013, 37, 585-593.	6.1	42
31	High-frequency oscillations in distributed neural networks reveal the dynamics of human decision making. Frontiers in Human Neuroscience, 2008, 1, 14.	2.0	40
32	Spanning the rich spectrum of the human brain: slow waves to gamma and beyond. Brain Structure and Function, 2011, 216, 77-84.	2.3	32
33	Photogrammetry-Based Head Digitization for Rapid and Accurate Localization of EEG Electrodes and MEG Fiducial Markers Using a Single Digital SLR Camera. Frontiers in Neuroscience, 2017, 11, 264.	2.8	32
34	The neural basis of event-time introspection. Consciousness and Cognition, 2011, 20, 1899-1915.	1.5	28
35	Cortical Temporal Dynamics of Visually Guided Behavior. Cerebral Cortex, 2011, 21, 519-529.	2.9	28
36	Performance of Prewhitening Beamforming in MEG Dual Experimental Conditions. IEEE Transactions on Biomedical Engineering, 2008, 55, 1112-1121.	4.2	21

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37	Across-subjects classification of stimulus modality from human MEG high frequency activity. PLoS Computational Biology, 2018, 14, e1005938.	3.2	20
38	The cerebellar clock: Predicting and timing somatosensory touch. NeuroImage, 2021, 238, 118202.	4.2	13
39	Parkinsonâ€™s disease patients benefit from bicycling - a systematic review and meta-analysis. Npj Parkinson's Disease, 2021, 7, 86.	5.3	13
40	Intrinsic Coupling between Gamma Oscillations, Neuronal Discharges, and Slow Cortical Oscillations during Human Slow-Wave Sleep. Journal of Neuroscience, 2010, 30, 14285-14287.	3.6	11
41	Contactless measurements of retinal activity using optically pumped magnetometers. NeuroImage, 2021, 243, 118528.	4.2	8
42	Role of Posterior Parietal Gamma Activity in Planning Prosaccades and Antisaccades. Journal of Neuroscience, 2008, 28, 13713-13715.	3.6	7
43	Information redundancy across spatial scales modulates early visual cortical processing. NeuroImage, 2021, 244, 118613.	4.2	6
44	COHERENT MEG/EEG SOURCE LOCALIZATION IN TRANSFORMED DATA SPACE. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 351-365.	0.6	4
45	BrainCycles: Experimental Setup for the Combined Measurement of Cortical and Subcortical Activity in Parkinson's Disease Patients during Cycling. Frontiers in Human Neuroscience, 2016, 10, 685.	2.0	3
46	NUTMEG: Open Source Software for MEG/EEG Source Reconstruction. , 2014, , 255-262.		2
47	Freezing of gait does not modulate beta oscillations in mesial cortical motor areas. Movement Disorders, 2019, 34, 436-436.	3.9	2
48	Performance of prewhitening beamforming in MEG dual experimental conditions. , 2007, , .		1
49	Introspecting perceptual, motor, and decision events. Consciousness and Cognition, 2011, 20, 1918-1919.	1.5	1
50	Information redundancy across spatial scales modulates early visual cortex responses. Journal of Vision, 2021, 21, 2526.	0.3	0