

Srikantan S Nagarajan

List of Publications by Year in descending order

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128
papers

5,986
citations

94381

37
h-index

91828

69
g-index

142
all docs

142
docs citations

142
times ranked

6362
citing authors

#	ARTICLE	IF	CITATIONS
1	Incidence and impact of subclinical epileptiform activity in Alzheimer's disease. <i>Annals of Neurology</i> , 2016, 80, 858-870.	2.8	373
2	Speech Production as State Feedback Control. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 82.	1.0	312
3	A unified Bayesian framework for MEG/EEG source imaging. <i>NeuroImage</i> , 2009, 44, 947-966.	2.1	295
4	Five-dimensional neuroimaging: Localization of the time-frequency dynamics of cortical activity. <i>NeuroImage</i> , 2008, 40, 1686-1700.	2.1	249
5	Mapping functional connectivity in patients with brain lesions. <i>Annals of Neurology</i> , 2008, 63, 193-203.	2.8	214
6	Latent Variable Bayesian Models for Promoting Sparsity. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 6236-6255.	1.5	210
7	Human cortical sensorimotor network underlying feedback control of vocal pitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2653-2658.	3.3	207
8	Global and regional functional connectivity maps of neural oscillations in focal epilepsy. <i>Brain</i> , 2015, 138, 2249-2262.	3.7	198
9	Robust Bayesian estimation of the location, orientation, and time course of multiple correlated neural sources using MEG. <i>NeuroImage</i> , 2010, 49, 641-655.	2.1	186
10	White Matter Changes of Neurite Density and Fiber Orientation Dispersion during Human Brain Maturation. <i>PLoS ONE</i> , 2015, 10, e0123656.	1.1	154
11	Opposing Brain Differences in 16p11.2 Deletion and Duplication Carriers. <i>Journal of Neuroscience</i> , 2014, 34, 11199-11211.	1.7	149
12	Clinical Symptoms and Alpha Band Resting-State Functional Connectivity Imaging in Patients With Schizophrenia: Implications for Novel Approaches to Treatment. <i>Biological Psychiatry</i> , 2011, 70, 1134-1142.	0.7	134
13	Intensive cognitive training in schizophrenia enhances working memory and associated prefrontal cortical efficiency in a manner that drives long-term functional gains. <i>NeuroImage</i> , 2014, 99, 281-292.	2.1	130
14	Functional Organization of Squirrel Monkey Primary Auditory Cortex: Responses to Pure Tones. <i>Journal of Neurophysiology</i> , 2001, 85, 1732-1749.	0.9	110
15	Effect of Levetiracetam on Cognition in Patients With Alzheimer Disease With and Without Epileptiform Activity. <i>JAMA Neurology</i> , 2021, 78, 1345.	4.5	109
16	MEG/EEG Source Reconstruction, Statistical Evaluation, and Visualization with NUTMEG. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-17.	1.1	104
17	Bayesian Machine Learning: EEG/MEG signal processing measurements. <i>IEEE Signal Processing Magazine</i> , 2016, 33, 14-36.	4.6	100
18	Optimal timing of pulse onset for language mapping with navigated repetitive transcranial magnetic stimulation. <i>NeuroImage</i> , 2014, 100, 219-236.	2.1	93

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19	Dynamics of hemispheric dominance for language assessed by magnetoencephalographic imaging. <i>Annals of Neurology</i> , 2012, 71, 668-686.	2.8	88
20	Safety and tolerability of navigated TMS for preoperative mapping in neurosurgical patients. <i>Clinical Neurophysiology</i> , 2016, 127, 1895-1900.	0.7	86
21	The Contribution of the Corpus Callosum to Language Lateralization. <i>Journal of Neuroscience</i> , 2016, 36, 4522-4533.	1.7	77
22	A probabilistic algorithm integrating source localization and noise suppression for MEG and EEG data. <i>NeuroImage</i> , 2007, 37, 102-115.	2.1	71
23	A bilateral cortical network responds to pitch perturbations in speech feedback. <i>NeuroImage</i> , 2014, 86, 525-535.	2.1	71
24	Aberrant White Matter Microstructure in Children with 16p11.2 Deletions. <i>Journal of Neuroscience</i> , 2014, 34, 6214-6223.	1.7	70
25	Performance evaluation of the Champagne source reconstruction algorithm on simulated and real M/EEG data. <i>NeuroImage</i> , 2012, 60, 305-323.	2.1	69
26	The FACTS model of speech motor control: Fusing state estimation and task-based control. <i>PLoS Computational Biology</i> , 2019, 15, e1007321.	1.5	69
27	Parsing the Phonological Loop: Activation Timing in the Dorsal Speech Stream Determines Accuracy in Speech Reproduction. <i>Journal of Neuroscience</i> , 2013, 33, 5439-5453.	1.7	63
28	Neurophysiological signatures in Alzheimer's disease are distinctly associated with TAU, amyloid- β^2 accumulation, and cognitive decline. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	59
29	Auditory Cortical Plasticity Drives Training-Induced Cognitive Changes in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2015, 42, sbv087.	2.3	58
30	Regional functional connectivity predicts distinct cognitive impairments in Alzheimer's disease spectrum. <i>NeuroImage: Clinical</i> , 2014, 5, 385-395.	1.4	54
31	Distinct spatiotemporal patterns of neuronal functional connectivity in primary progressive aphasia variants. <i>Brain</i> , 2017, 140, 2737-2751.	3.7	53
32	Dual signal subspace projection (DSSP): a novel algorithm for removing large interference in biomagnetic measurements. <i>Journal of Neural Engineering</i> , 2016, 13, 036007.	1.8	52
33	Probabilistic algorithms for MEG/EEG source reconstruction using temporal basis functions learned from data. <i>NeuroImage</i> , 2008, 41, 924-940.	2.1	50
34	Preoperative localization of hand motor cortex by adaptive spatial filtering of magnetoencephalography data. <i>Journal of Neurosurgery</i> , 2008, 109, 228-237.	0.9	47
35	Spectral graph theory of brain oscillations. <i>Human Brain Mapping</i> , 2020, 41, 2980-2998.	1.9	46
36	Resection of Motor Eloquent Metastases Aided by Preoperative nTMS-Based Motor Maps—Comparison of Two Observational Cohorts. <i>Frontiers in Oncology</i> , 2016, 6, 261.	1.3	45

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37	Multiple Midfrontal Thetas Revealed by Source Separation of Simultaneous MEG and EEG. <i>Journal of Neuroscience</i> , 2020, 40, 7702-7713.	1.7	45
38	Altered excitatory and inhibitory neuronal subpopulation parameters are distinctly associated with tau and amyloid in Alzheimer's disease. <i>ELife</i> , 0, 11, .	2.8	45
39	A probabilistic algorithm for robust interference suppression in bioelectromagnetic sensor data. <i>Statistics in Medicine</i> , 2007, 26, 3886-3910.	0.8	44
40	Abnormal vocal behavior predicts executive and memory deficits in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2017, 52, 71-80.	1.5	44
41	Magnetoencephalography imaging of high frequency oscillations strengthens presurgical localization and outcome prediction. <i>Brain</i> , 2019, 142, 3514-3529.	3.7	42
42	Electromagnetic Brain Imaging. , 2015, , .		41
43	Hierarchical multiscale Bayesian algorithm for robust MEG/EEG source reconstruction. <i>NeuroImage</i> , 2018, 183, 698-715.	2.1	40
44	White matter microstructure predicts cognitive training-induced improvements in attention and executive functioning in schizophrenia. <i>Schizophrenia Research</i> , 2018, 193, 276-283.	1.1	39
45	Reciprocal white matter alterations due to 16p11.2 chromosomal deletions versus duplications. <i>Human Brain Mapping</i> , 2016, 37, 2833-2848.	1.9	37
46	Neural signal during immediate reward anticipation in schizophrenia: Relationship to real-world motivation and function. <i>NeuroImage: Clinical</i> , 2015, 9, 153-163.	1.4	35
47	MEG imaging of recurrent gliomas reveals functional plasticity of hemispheric language specialization. <i>Human Brain Mapping</i> , 2019, 40, 1082-1092.	1.9	35
48	A graphical model for estimating stimulus-evoked brain responses from magnetoencephalography data with large background brain activity. <i>NeuroImage</i> , 2006, 30, 400-416.	2.1	34
49	Increased striatal functional connectivity with auditory cortex in tinnitus. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 568.	1.0	34
50	Magnetoencephalographic Imaging of Auditory and Somatosensory Cortical Responses in Children with Autism and Sensory Processing Dysfunction. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 259.	1.0	32
51	Abnormal Speech Motor Control in Individuals with 16p11.2 Deletions. <i>Scientific Reports</i> , 2018, 8, 1274.	1.6	31
52	Abnormally increased vocal responses to pitch feedback perturbations in patients with cerebellar degeneration. <i>Journal of the Acoustical Society of America</i> , 2019, 145, EL372-EL378.	0.5	30
53	Bihemispheric network dynamics coordinating vocal feedback control. <i>Human Brain Mapping</i> , 2016, 37, 1474-1485.	1.9	29
54	Bayesian electromagnetic spatio-temporal imaging of extended sources with Markov Random Field and temporal basis expansion. <i>NeuroImage</i> , 2016, 139, 385-404.	2.1	29

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55	Magnetoencephalographic imaging of ictal high-frequency oscillations (80-200 Hz) in pharmacologically resistant focal epilepsy. <i>Epilepsia</i> , 2018, 59, 190-202.	2.6	28
56	Brain MR Imaging Findings and Associated Outcomes in Carriers of the Reciprocal Copy Number Variation at 16p11.2. <i>Radiology</i> , 2018, 286, 217-226.	3.6	27
57	Neural correlates of abnormal auditory feedback processing during speech production in Alzheimer's disease. <i>Scientific Reports</i> , 2019, 9, 5686.	1.6	25
58	Neuronal synchrony abnormalities associated with subclinical epileptiform activity in early-onset Alzheimer's disease. <i>Brain</i> , 2022, 145, 744-753.	3.7	25
59	Robust estimation of noise for electromagnetic brain imaging with the champagne algorithm. <i>NeuroImage</i> , 2021, 225, 117411.	2.1	24
60	Reality Monitoring and Feedback Control of Speech Production Are Related Through Self-Agency. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 82.	1.0	23
61	Motor Cortical Network Plasticity in Patients With Recurrent Brain Tumors. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 118.	1.0	23
62	Spectral graph theory of brain oscillations—Revisited and improved. <i>NeuroImage</i> , 2022, 249, 118919.	2.1	22
63	Performance of Prewhitening Beamforming in MEG Dual Experimental Conditions. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1112-1121.	2.5	21
64	Robust Empirical Bayesian Reconstruction of Distributed Sources for Electromagnetic Brain Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 567-577.	5.4	21
65	Neural Mechanisms of Positive Mood Induced Modulation of Reality Monitoring. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 581.	1.0	20
66	Safety and tolerability of navigated TMS in healthy volunteers. <i>Clinical Neurophysiology</i> , 2016, 127, 1916-1918.	0.7	20
67	Abnormal auditory and language pathways in children with 16p11.2 deletion. <i>NeuroImage: Clinical</i> , 2015, 9, 50-57.	1.4	19
68	Relationship between M100 Auditory Evoked Response and Auditory Radiation Microstructure in 16p11.2 Deletion and Duplication Carriers. <i>American Journal of Neuroradiology</i> , 2016, 37, 1178-1184.	1.2	19
69	The impact of high functional connectivity network hub resection on language task performance in adult low- and high-grade glioma. <i>Journal of Neurosurgery</i> , 2021, 134, 1102-1112.	0.9	19
70	A Real-Time Magnetoencephalography Brain-Computer Interface Using Interactive 3D Visualization and the Hadoop Ecosystem. <i>Brain Sciences</i> , 2015, 5, 419-440.	1.1	18
71	Neural mechanisms of mood-induced modulation of reality monitoring in schizophrenia. <i>Cortex</i> , 2017, 91, 271-286.	1.1	17
72	Reduced synchrony in alpha oscillations during life predicts <i>post mortem</i> neurofibrillary tangle density in early-onset and atypical Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, 2009-2019.	0.4	17

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73	Vocal motor control and central auditory impairments in unilateral vocal fold paralysis. <i>Laryngoscope</i> , 2019, 129, 2112-2117.	1.1	16
74	Human caudate nucleus subdivisions in tinnitus modulation. <i>Journal of Neurosurgery</i> , 2020, 132, 705-711.	0.9	16
75	Controlled Support MEG imaging. <i>NeuroImage</i> , 2006, 33, 878-885.	2.1	15
76	Spatial plasticity of the auditory cortex in single-sided deafness. <i>Laryngoscope</i> , 2016, 126, 2785-2791.	1.1	15
77	Intervention-specific patterns of cortical function plasticity during auditory encoding in people with schizophrenia. <i>Schizophrenia Research</i> , 2020, 215, 241-249.	1.1	15
78	NUTMEG: Open Source Software for M/EEG Source Reconstruction. <i>Frontiers in Neuroscience</i> , 2020, 14, 710.	1.4	15
79	Emergence of canonical functional networks from the structural connectome. <i>NeuroImage</i> , 2021, 237, 118190.	2.1	15
80	Unification of sparse Bayesian learning algorithms for electromagnetic brain imaging with the majorization minimization framework. <i>NeuroImage</i> , 2021, 239, 118309.	2.1	15
81	Functional and Structural Brain Plasticity in Adult Onset Single-Sided Deafness. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 474.	1.0	14
82	Corticostriatal functional connectivity of bothersome tinnitus in single-sided deafness. <i>Scientific Reports</i> , 2019, 9, 19552.	1.6	14
83	Taking the sublexical route: brain dynamics of reading in the semantic variant of primary progressive aphasia. <i>Brain</i> , 2020, 143, 2545-2560.	3.7	14
84	The sensitivity and significance of lateralized interictal slow activity on magnetoencephalography in focal epilepsy. <i>Epilepsy Research</i> , 2016, 121, 21-28.	0.8	13
85	Evaluation of a dual signal subspace projection algorithm in magnetoencephalographic recordings from patients with intractable epilepsy and vagus nerve stimulators. <i>NeuroImage</i> , 2019, 188, 161-170.	2.1	13
86	Cross-modal plasticity in adult single-sided deafness revealed by alpha band resting-state functional connectivity. <i>NeuroImage</i> , 2020, 207, 116376.	2.1	13
87	Speech compensation responses and sensorimotor adaptation to formant feedback perturbations. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 1147-1161.	0.5	13
88	Phase I trial of caudate deep brain stimulation for treatment-resistant tinnitus. <i>Journal of Neurosurgery</i> , 2020, 133, 992-1001.	0.9	13
89	Network connectivity predicts effectiveness of responsive neurostimulation in focal epilepsy. <i>Brain Communications</i> , 2022, 4, .	1.5	13
90	Comparison of DSSP and tSSS algorithms for removing artifacts from vagus nerve stimulators in magnetoencephalography data. <i>Journal of Neural Engineering</i> , 2019, 16, 066045.	1.8	12

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91	Establishing a Causal Role for Medial Prefrontal Cortex in Reality Monitoring. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 106.	1.0	12
92	Sensorimotor Cortical Oscillations during Movement Preparation in 16p11.2 Deletion Carriers. <i>Journal of Neuroscience</i> , 2019, 39, 7321-7331.	1.7	11
93	Global resting-state functional connectivity of neural oscillations in tinnitus with and without hearing loss. <i>Human Brain Mapping</i> , 2020, 41, 2846-2861.	1.9	11
94	Striatal networks for tinnitus treatment targeting. <i>Human Brain Mapping</i> , 2022, 43, 633-646.	1.9	11
95	Aberrant Oscillatory Activity during Simple Movement in Task-Specific Focal Hand Dystonia. <i>Frontiers in Neurology</i> , 2012, 3, 165.	1.1	10
96	Subspace-based interference removal methods for a multichannel biomagnetic sensor array. <i>Journal of Neural Engineering</i> , 2017, 14, 051001.	1.8	10
97	Beta-band activity in medial prefrontal cortex predicts source memory encoding and retrieval accuracy. <i>Scientific Reports</i> , 2019, 9, 6814.	1.6	10
98	Optimizing Magnetoencephalographic Imaging Estimation of Language Lateralization for Simpler Language Tasks. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 105.	1.0	10
99	Tinnitus Neuroimaging. <i>Otolaryngologic Clinics of North America</i> , 2020, 53, 583-603.	0.5	9
100	Time-varying dynamic network model for dynamic resting state functional connectivity in fMRI and MEG imaging. <i>NeuroImage</i> , 2022, 254, 119131.	2.1	9
101	Cortical networks for speech motor control in unilateral vocal fold paralysis. <i>Laryngoscope</i> , 2019, 129, 2125-2130.	1.1	8
102	Neuroanatomic Volume Differences in Tinnitus and Hearing Loss. <i>Laryngoscope</i> , 2021, 131, 1863-1868.	1.1	7
103	Sensorimotor adaptation of speech depends on the direction of auditory feedback alteration. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 3682-3697.	0.5	7
104	Source Localization of EEG/MEG Data by Correlating Columns of ICA Solution with Lead Field Matrix. , 2007, , .		6
105	Association of Sensory Processing With Higher-Order Cognition and Functioning in Schizophrenia. <i>JAMA Psychiatry</i> , 2017, 74, 17.	6.0	6
106	Multivariate pattern analysis of brain structure predicts functional outcome after auditory-based cognitive training interventions. <i>NPJ Schizophrenia</i> , 2021, 7, 40.	2.0	6
107	Magnetoencephalography Imaging Reveals Abnormal Information Flow in Temporal Lobe Epilepsy. <i>Brain Connectivity</i> , 2022, 12, 362-373.	0.8	6
108	Reliable and Reproducible GABA Measurements Using Automated Spectral Prescription at Ultra-High Field. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 506.	1.0	5

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109	The Visual Word Form Area compensates for auditory working memory dysfunction in schizophrenia. <i>Scientific Reports</i> , 2020, 10, 8881.	1.6	5
110	Editorial: From Raw MEG/EEG to Publication: How to Perform MEG/EEG Group Analysis With Free Academic Software. <i>Frontiers in Neuroscience</i> , 2022, 16, 854471.	1.4	5
111	COHERENT MEG/EEG SOURCE LOCALIZATION IN TRANSFORMED DATA SPACE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2010, 22, 351-365.	0.3	4
112	Clinical Validation of the Champagne Algorithm for Epilepsy Spike Localization. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 642819.	1.0	4
113	Temporal specificity of abnormal neural oscillations during phonatory events in laryngeal dystonia. <i>Brain Communications</i> , 2022, 4, fcac031.	1.5	4
114	Cortical Basal Ganglia Cerebellar Networks in Unilateral Vocal Fold Paralysis: A Pilot Study. <i>Laryngoscope</i> , 2020, 130, 460-464.	1.1	3
115	Intact Correction for Self-Produced Vowel Formant Variability in Individuals With Cerebellar Ataxia Regardless of Auditory Feedback Availability. <i>Journal of Speech, Language, and Hearing Research</i> , 2021, 64, 2234-2247.	0.7	3
116	Empirical Bayesian localization of event-related time-frequency neural activity dynamics. <i>NeuroImage</i> , 2022, 258, 119369.	2.1	3
117	Stability and dynamics of a spectral graph model of brain oscillations. <i>Network Neuroscience</i> , 2023, 7, 48-72.	1.4	3
118	Learning and adaptation in speech production without a vocal tract. <i>Scientific Reports</i> , 2019, 9, 13582.	1.6	2
119	Interhemispheric Auditory Cortical Synchronization in Asymmetric Hearing Loss. <i>Ear and Hearing</i> , 2021, 42, 1253-1262.	1.0	2
120	Clinical Validation of the Champagne Algorithm for Evoked Response Source Localization in Magnetoencephalography. <i>Brain Topography</i> , 2021, , 1.	0.8	2
121	Cortical oscillatory dysfunction in Parkinson disease during movement activation and inhibition. <i>PLoS ONE</i> , 2022, 17, e0257711.	1.1	2
122	Discrete constriction locations describe a comprehensive range of vocal tract shapes in the Maeda model. <i>JASA Express Letters</i> , 2021, 1, 124402.	0.5	2
123	High activity and high functional connectivity are mutually exclusive in resting state zebrafish and human brains. <i>BMC Biology</i> , 2022, 20, 84.	1.7	2
124	Performance of prewhitening beamforming in MEG dual experimental conditions. , 2007, , .		1
125	Abnormal Auditory Mismatch Fields in Children and Adolescents With 16p11.2 Deletion and 16p11.2 Duplication. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 942-950.	1.1	1
126	THE THEORY OF CENTRAL NERVOUS SYSTEM RECORDING. <i>Series on Bioengineering and Biomedical Engineering</i> , 2004, , 448-471.	0.1	1

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127	Linear Dynamical System Response Modeling of Trial-to-Trial Amplitude Variability in Event-Related MEG/EEG. , 2007, , .		0
128	Robust methods for reconstructing brain activity and functional connectivity between brain sourceswith MEG/EEG data. , 2009, , .		0