

Vivek Prabhakaran

List of Publications by Citations

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124
papers

7,364
citations

37
h-index

85
g-index

131
ext. papers

8,577
ext. citations

4.9
avg, IF

5.51
L-index

#	Paper	IF	Citations
124	Rostrolateral prefrontal cortex involvement in relational integration during reasoning. <i>NeuroImage</i> , 2001 , 14, 1136-49	7.9	551
123	Load-dependent roles of frontal brain regions in the maintenance of working memory. <i>NeuroImage</i> , 1999 , 9, 216-26	7.9	547
122	Integration of diverse information in working memory within the frontal lobe. <i>Nature Neuroscience</i> , 2000 , 3, 85-90	25.5	503
121	The effect of scan length on the reliability of resting-state fMRI connectivity estimates. <i>NeuroImage</i> , 2013 , 83, 550-8	7.9	453
120	Sniffing and smelling: separate subsystems in the human olfactory cortex. <i>Nature</i> , 1998 , 392, 282-6	50.4	435
119	Neural substrates of fluid reasoning: an fMRI study of neocortical activation during performance of the Raven's Progressive Matrices Test. <i>Cognitive Psychology</i> , 1997 , 33, 43-63	3.1	415
118	Striatal activation during acquisition of a cognitive skill. <i>Neuropsychology</i> , 1999 , 13, 564-574	3.8	344
117	Neural correlates of cognitive efficiency. <i>NeuroImage</i> , 2006 , 33, 969-79	7.9	262
116	Time course of odorant-induced activation in the human primary olfactory cortex. <i>Journal of Neurophysiology</i> , 2000 , 83, 537-51	3.2	255
115	An open science resource for establishing reliability and reproducibility in functional connectomics. <i>Scientific Data</i> , 2014 , 1, 140049	8.2	247
114	The effect of resting condition on resting-state fMRI reliability and consistency: a comparison between resting with eyes open, closed, and fixated. <i>NeuroImage</i> , 2013 , 78, 463-73	7.9	247
113	Blind smell: brain activation induced by an undetected air-borne chemical. <i>Brain</i> , 1999 , 122 (Pt 2), 209-17	11.2	182
112	Odorant-induced and sniff-induced activation in the cerebellum of the human. <i>Journal of Neuroscience</i> , 1998 , 18, 8990-9001	6.6	174
111	Age-related reorganizational changes in modularity and functional connectivity of human brain networks. <i>Brain Connectivity</i> , 2014 , 4, 662-76	2.7	140
110	Age differences in prefrontal cortical activity in working memory. <i>Psychology and Aging</i> , 2001 , 16, 371-384	3.6	137
109	Effects of hypoperfusion in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2011 , 26 Suppl 3, 123-33	4.3	135
108	The role of the prefrontal cortex in the maintenance of verbal working memory: an event-related fMRI analysis. <i>Neuropsychology</i> , 2005 , 19, 223-32	3.8	135

107	Support vector machine classification and characterization of age-related reorganization of functional brain networks. <i>NeuroImage</i> , 2012 , 60, 601-13	7.9	124
106	Neural substrates of mathematical reasoning: A functional magnetic resonance imaging study of neocortical activation during performance of the necessary arithmetic operations test.. <i>Neuropsychology</i> , 2001 , 15, 115-127	3.8	121
105	Hemispheric asymmetries and individual differences in visual concept learning as measured by functional MRI. <i>Neuropsychologia</i> , 2000 , 38, 1316-24	3.2	119
104	Role of the Contralesional vs. Ipsilesional Hemisphere in Stroke Recovery. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 469	3.3	76
103	When less is more and when more is more: The mediating roles of capacity and speed in brain-behavior efficiency. <i>Intelligence</i> , 2009 , 37, 207-222	3	75
102	Age-related differences in test-retest reliability in resting-state brain functional connectivity. <i>PLoS ONE</i> , 2012 , 7, e49847	3.7	74
101	A method for functional magnetic resonance imaging of olfaction. <i>Journal of Neuroscience Methods</i> , 1997 , 78, 115-23	3	67
100	A review of the progression and future implications of brain-computer interface therapies for restoration of distal upper extremity motor function after stroke. <i>Expert Review of Medical Devices</i> , 2016 , 13, 445-54	3.5	65
99	Cognition and brain development in children with benign epilepsy with centrotemporal spikes. <i>Epilepsia</i> , 2015 , 56, 1615-22	6.4	61
98	DTI measures track and predict motor function outcomes in stroke rehabilitation utilizing BCI technology. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 195	3.3	59
97	Alterations in regional homogeneity of resting-state brain activity in mesial temporal lobe epilepsy. <i>Epilepsia</i> , 2013 , 54, 658-66	6.4	58
96	Changes in functional brain organization and behavioral correlations after rehabilitative therapy using a brain-computer interface. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 26		56
95	The influence of physiological noise correction on test-retest reliability of resting-state functional connectivity. <i>Brain Connectivity</i> , 2014 , 4, 511-22	2.7	50
94	Characterizing Functional Connectivity Differences in Aging Adults using Machine Learning on Resting State fMRI Data. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 38	3.5	47
93	Neural substrates of word generation during stroke recovery: the influence of cortical hypoperfusion. <i>Behavioural Neurology</i> , 2007 , 18, 45-52	3	47
92	Functional connectivity changes in the language network during stroke recovery. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 185-95	5.3	46
91	Impact of brain tumor location on morbidity and mortality: a retrospective functional MR imaging study. <i>American Journal of Neuroradiology</i> , 2011 , 32, 1420-5	4.4	45
90	Changes in functional connectivity correlate with behavioral gains in stroke patients after therapy using a brain-computer interface device. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 25		44

89	Characterizing relationships of DTI, fMRI, and motor recovery in stroke rehabilitation utilizing brain-computer interface technology. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 31		43
88	Postoperative delirium is associated with increased plasma neurofilament light. <i>Brain</i> , 2020 , 143, 47-54	11.2	42
87	Regional homogeneity (ReHo) changes in new onset versus chronic benign epilepsy of childhood with centrotemporal spikes (BECTS): A resting state fMRI study. <i>Epilepsy Research</i> , 2015 , 116, 79-85	3	35
86	B-type natriuretic peptide as a marker for heart failure in patients with acute stroke. <i>Intensive Care Medicine</i> , 2007 , 33, 1587-93	14.5	30
85	Usage of fMRI for pre-surgical planning in brain tumor and vascular lesion patients: task and statistical threshold effects on language lateralization. <i>NeuroImage: Clinical</i> , 2015 , 7, 415-23	5.3	28
84	Association of functional magnetic resonance imaging indices with postoperative language outcomes in patients with primary brain tumors. <i>Neurosurgical Focus</i> , 2013 , 34, E6	4.2	27
83	Case report: post-stroke interventional BCI rehabilitation in an individual with preexisting sensorineural disability. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 18		26
82	Disrupted Brain Functional Organization in Epilepsy Revealed by Graph Theory Analysis. <i>Brain Connectivity</i> , 2015 , 5, 276-83	2.7	25
81	Rethinking Measures of Functional Connectivity via Feature Extraction. <i>Scientific Reports</i> , 2020 , 10, 12984.9	4.9	24
80	Dose-response relationships using brain-computer interface technology impact stroke rehabilitation. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 361	3.3	23
79	Neural activity differs between explicit and implicit learning of artificial grammar strings: An fMRI study. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2000 , 28, 283-292		22
78	Cohort study into the neural correlates of postoperative delirium: the role of connectivity and slow-wave activity. <i>British Journal of Anaesthesia</i> , 2020 , 125, 55-66	5.4	21
77	Machine Learning Classification to Identify the Stage of Brain-Computer Interface Therapy for Stroke Rehabilitation Using Functional Connectivity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 353	5.1	21
76	Brain-Computer Interface Training after Stroke Affects Patterns of Brain-Behavior Relationships in Corticospinal Motor Fibers. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 457	3.3	20
75	Classification and Extraction of Resting State Networks Using Healthy and Epilepsy fMRI Data. <i>Frontiers in Neuroscience</i> , 2016 , 10, 440	5.1	20
74	Parallel ICA identifies sub-components of resting state networks that covary with behavioral indices. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 281	3.3	19
73	Testing conclusions from functional imaging of working memory with data from acute stroke. <i>Behavioural Neurology</i> , 2007 , 18, 37-43	3	19
72	Graph theory and cognition: A complementary avenue for examining neuropsychological status in epilepsy. <i>Epilepsy and Behavior</i> , 2016 , 64, 329-335	3.2	18

71	Developmental Reorganization of the Cognitive Network in Pediatric Epilepsy. <i>PLoS ONE</i> , 2015 , 10, e0141186	4.1	18
70	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021 , 243, 118502	7.9	18
69	Structural Imaging Changes and Behavioral Correlates in Patients with Crohn's Disease in Remission. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 460	3.3	17
68	Cognitive slowing and its underlying neurobiology in temporal lobe epilepsy. <i>Cortex</i> , 2019 , 117, 41-52	3.8	16
67	Graph Theory Analysis of Functional Connectivity Combined with Machine Learning Approaches Demonstrates Widespread Network Differences and Predicts Clinical Variables in Temporal Lobe Epilepsy. <i>Brain Connectivity</i> , 2020 , 10, 39-50	2.7	16
66	The role of secondary motor and language cortices in morbidity and mortality: a retrospective functional MRI study of surgical planning for patients with intracranial tumors. <i>Neurosurgical Focus</i> , 2013 , 34, E7	4.2	16
65	Network, clinical and sociodemographic features of cognitive phenotypes in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2020 , 27, 102341	5.3	15
64	Preoperative fMRI Associated with Decreased Mortality and Morbidity in Brain Tumor Patients. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2018 , 13, 40-45	0.5	14
63	Behavioral Outcomes Following Brain-Computer Interface Intervention for Upper Extremity Rehabilitation in Stroke: A Randomized Controlled Trial. <i>Frontiers in Neuroscience</i> , 2018 , 12, 752	5.1	14
62	Ipsilesional Mu Rhythm Desynchronization and Changes in Motor Behavior Following Post Stroke BCI Intervention for Motor Rehabilitation. <i>Frontiers in Neuroscience</i> , 2019 , 13, 53	5.1	13
61	Differing Patterns of Altered Slow-5 Oscillations in Healthy Aging and Ischemic Stroke. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 156	3.3	13
60	Implication of the Slow-5 Oscillations in the Disruption of the Default-Mode Network in Healthy Aging and Stroke. <i>Brain Connectivity</i> , 2016 , 6, 482-95	2.7	13
59	Age-Related Changes in Inter-Network Connectivity by Component Analysis. <i>Frontiers in Aging Neuroscience</i> , 2015 , 7, 237	5.3	12
58	Hypercapnic evaluation of vascular reactivity in healthy aging and acute stroke via functional MRI. <i>NeuroImage: Clinical</i> , 2016 , 12, 173-9	5.3	12
57	Effective Connectivity Within the Default Mode Network in Left Temporal Lobe Epilepsy: Findings from the Epilepsy Connectome Project. <i>Brain Connectivity</i> , 2019 , 9, 174-183	2.7	12
56	The Impact of Intracranial Tumor Proximity to White Matter Tracts on Morbidity and Mortality: A Retrospective Diffusion Tensor Imaging Study. <i>Neurosurgery</i> , 2017 , 80, 193-200	3.2	11
55	Alterations in resting-state functional connectivity in patients with Crohn's disease in remission. <i>Scientific Reports</i> , 2019 , 9, 7412	4.9	11
54	Using Low-Frequency Oscillations to Detect Temporal Lobe Epilepsy with Machine Learning. <i>Brain Connectivity</i> , 2019 , 9, 184-193	2.7	11

53	Brain aging in temporal lobe epilepsy: Chronological, structural, and functional. <i>NeuroImage: Clinical</i> , 2020 , 25, 102183	5.3	11
52	Capacity-speed relationships in prefrontal cortex. <i>PLoS ONE</i> , 2011 , 6, e27504	3.7	11
51	Low functional robustness in mesial temporal lobe epilepsy. <i>Epilepsy Research</i> , 2016 , 123, 20-8	3	11
50	Brain structure and organization five decades after childhood onset epilepsy. <i>Human Brain Mapping</i> , 2017 , 38, 3289-3299	5.9	10
49	A Prospective, Multicenter Study to Assess the Safety and Efficacy of Translingual Neurostimulation Plus Physical Therapy for the Treatment of a Chronic Balance Deficit Due to Mild-to-Moderate Traumatic Brain Injury. <i>Neuromodulation</i> , 2020 ,	3.1	10
48	Current status and future perspectives of magnetic resonance high-field imaging: a summary. <i>Neuroimaging Clinics of North America</i> , 2012 , 22, 373-97, xii	3	10
47	Characterizing the relationship between functional MRI-derived measures and clinical outcomes in patients with vascular lesions. <i>Neurosurgical Focus</i> , 2013 , 34, E8	4.2	10
46	Age-Related Changes in BOLD Activation Pattern in Phonemic Fluency Paradigm: An Investigation of Activation, Functional Connectivity and Psychophysiological Interactions. <i>Frontiers in Aging Neuroscience</i> , 2016 , 8, 110	5.3	10
45	DUAL-GLOW: Conditional Flow-Based Generative Model for Modality Transfer.. <i>Proceedings of the IEEE International Conference on Computer Vision</i> , 2019 , 2019, 10610-10619	3.3	10
44	Progressive dissociation of cortical and subcortical network development in children with new-onset juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2018 , 59, 2086-2095	6.4	10
43	Early Findings on Functional Connectivity Correlates of Behavioral Outcomes of Brain-Computer Interface Stroke Rehabilitation Using Machine Learning. <i>Frontiers in Neuroscience</i> , 2018 , 12, 624	5.1	9
42	Network analysis of prospective brain development in youth with benign epilepsy with centrotemporal spikes and its relationship to cognition. <i>Epilepsia</i> , 2019 , 60, 1838-1848	6.4	7
41	Translingual Neurostimulation for the Treatment of Chronic Symptoms Due to Mild-to-Moderate Traumatic Brain Injury. <i>Archives of Rehabilitation Research and Clinical Translation</i> , 2019 , 1, 100026	1.3	7
40	Neuroanatomical correlates of personality traits in temporal lobe epilepsy: Findings from the Epilepsy Connectome Project. <i>Epilepsy and Behavior</i> , 2019 , 98, 220-227	3.2	6
39	Examining the identification of age-related atrophy between T1 and T1 + T2-FLAIR cortical thickness measurements. <i>Scientific Reports</i> , 2019 , 9, 11288	4.9	6
38	P-FIT and the neuroscience of intelligence: How well does P fit?. <i>Behavioral and Brain Sciences</i> , 2007 , 30, 166-167	0.9	6
37	Disruptions in cortico-subcortical covariance networks associated with anxiety in new-onset childhood epilepsy. <i>NeuroImage: Clinical</i> , 2016 , 12, 815-824	5.3	6
36	Recovery of slow-5 oscillations in a longitudinal study of ischemic stroke patients. <i>NeuroImage: Clinical</i> , 2016 , 11, 398-407	5.3	6

35	A Verbal Fluency Task-Based Brain Activation fMRI Study in Patients with Crohn's Disease in Remission. <i>Journal of Neuroimaging</i> , 2019 , 29, 630-639	2.8	5
34	Neuroticism in temporal lobe epilepsy is associated with altered limbic-frontal lobe resting-state functional connectivity. <i>Epilepsy and Behavior</i> , 2020 , 110, 107172	3.2	5
33	Alterations in brain white matter microstructural properties in patients with Crohn's disease in remission. <i>Scientific Reports</i> , 2020 , 10, 2145	4.9	5
32	Brain-computer interfaces for stroke rehabilitation: summary of the 2016 BCI Meeting in Asilomar. <i>Brain-Computer Interfaces</i> , 2018 , 5, 41-57	2	5
31	Quantitative definition of neurobehavior, vision, hearing and brain volumes in macaques congenitally exposed to Zika virus. <i>PLoS ONE</i> , 2020 , 15, e0235877	3.7	5
30	Regional and global resting-state functional MR connectivity in temporal lobe epilepsy: Results from the Epilepsy Connectome Project. <i>Epilepsy and Behavior</i> , 2021 , 117, 107841	3.2	5
29	Evaluation of Changes in the Motor Network Following BCI Therapy Based on Graph Theory Analysis. <i>Frontiers in Neuroscience</i> , 2018 , 12, 861	5.1	5
28	Investigating the Blood Oxygenation Level-Dependent Functional MRI Response to a Verbal Fluency Task in Early Stroke before and after Hemodynamic Scaling. <i>Frontiers in Neurology</i> , 2017 , 8, 283	4.1	4
27	The neural correlates of age effects on verbal-spatial binding in working memory. <i>Behavioural Brain Research</i> , 2014 , 266, 146-52	3.4	4
26	Psychomotor slowing is associated with anomalies in baseline and prospective large scale neural networks in youth with epilepsy. <i>NeuroImage: Clinical</i> , 2018 , 19, 222-231	5.3	4
25	Validating Age-Related Functional Imaging Changes in Verbal Working Memory with Acute Stroke. <i>Behavioural Neurology</i> , 2011 , 24, 187-199	3	3
24	Multi-Channel Deep Neural Network For Temporal Lobe Epilepsy Classification Using Multimodal Mri Data 2020 ,		3
23	Delineating potential epileptogenic areas utilizing resting functional magnetic resonance imaging (fMRI) in epilepsy patients. <i>Neurocase</i> , 2016 , 22, 362-8	0.8	3
22	Relationships between preoperative cortical thickness, postoperative electroencephalogram slowing, and postoperative delirium. <i>British Journal of Anaesthesia</i> , 2021 , 127, 236-244	5.4	3
21	Abstract 6: Resting-state Functional Connectivity Changes After Stroke Rehabilitation Using Closed Loop Neurofeedback. <i>Stroke</i> , 2015 , 46,	6.7	2
20	Sa1886 Altered Brain Functional Activation and Connectivity Patterns in Patients With Crohn's Disease in Remission. <i>Gastroenterology</i> , 2016 , 150, S392	13.3	2
19	Identification of Subclinical Language Deficit Using Machine Learning Classification Based on Poststroke Functional Connectivity Derived from Low Frequency Oscillations. <i>Brain Connectivity</i> , 2019 , 9, 194-208	2.7	2
18	IC-P-161: CHARACTERIZING STRUCTURAL BRAIN ALTERATIONS IN ALZHEIMER'S DISEASE PATIENTS WITH MACHINE LEARNING 2018 , 14, P135-P136		2

17	Predicting primary outcomes of brain tumor patients with advanced neuroimaging MRI measures.. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2018 , 13, 109-118	0.5	1
16	Characterizing Recovery of the Human Brain following Stroke: Evidence from fMRI Studies 2014 , 485-506		1
15	Amyloid deposition on positron emission tomography correlates with severity of perioperative delirium: a case-control pilot study.. <i>British Journal of Anaesthesia</i> , 2022 ,	5.4	1
14	Abstract WP141: Prediction of Subclinical Language Deficit Using Machine Learning Based on Post-stroke Functional Connectivity Derived From Low Frequency Oscillations. <i>Stroke</i> , 2018 , 49,	6.7	1
13	Differences in Diffusion Tensor Imaging White Matter Integrity Related to Verbal Fluency Between Young and Old Adults. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 750621	5.3	1
12	Genetic influence on resting state networks in young male and female adults		1
11	Network topology of the cognitive phenotypes of temporal lobe epilepsy. <i>Cortex</i> , 2021 , 141, 55-65	3.8	1
10	Brain-Computer Interface Training With Functional Electrical Stimulation: Facilitating Changes in Interhemispheric Functional Connectivity and Motor Outcomes Post-stroke. <i>Frontiers in Neuroscience</i> , 2021 , 15, 670953	5.1	1
9	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , 2022 , 257, 119327	7.9	1
8	A pilot study of neural correlates of perioperative executive function associated with noncardiac surgery in the elderly. <i>British Journal of Anaesthesia</i> , 2019 , 123, e517-e518	5.4	0
7	Ipsilesional Mu Rhythm Desynchronization Correlates With Improvements in Affected Hand Grip Strength and Functional Connectivity in Sensorimotor Cortices Following BCI-FES Intervention for Upper Extremity in Stroke Survivors. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 725645	3.3	0
6	Validating age-related functional imaging changes in verbal working memory with acute stroke. <i>Behavioural Neurology</i> , 2011 , 24, 187-99	3	
5	Machine Learning-Based Prediction of Changes in Behavioral Outcomes Using Functional Connectivity and Clinical Measures in Brain-Computer Interface Stroke Rehabilitation. <i>Lecture Notes in Computer Science</i> , 2017 , 543-557	0.9	
4	Quantitative definition of neurobehavior, vision, hearing and brain volumes in macaques congenitally exposed to Zika virus 2020 , 15, e0235877		
3	Quantitative definition of neurobehavior, vision, hearing and brain volumes in macaques congenitally exposed to Zika virus 2020 , 15, e0235877		
2	Quantitative definition of neurobehavior, vision, hearing and brain volumes in macaques congenitally exposed to Zika virus 2020 , 15, e0235877		
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