

# Ranganatha Sitaram

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61 papers	4,431 citations	30 h-index	66 g-index
71 ext. papers	5,333 ext. citations	5 avg, IF	5.24 L-index

#	Paper	IF	Citations
61	Four methods of brain pattern analyses of fMRI signals associated with wrist extension versus wrist flexion studied for potential use in future motor learning BCI. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254338	3.7	0
60	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). <i>Brain</i> , <b>2020</b> , 143, 1674-1685	11.2	93
59	Involvement of top-down networks in the perception of facial emotions: A magnetoencephalographic investigation. <i>NeuroImage</i> , <b>2020</b> , 222, 117075	7.9	7
58	Fractional Anisotropy changes in Parahippocampal Cingulum due to Alzheimer's Disease. <i>Scientific Reports</i> , <b>2020</b> , 10, 2660	4.9	9
57	Semi-Automated and Direct Localization and Labeling of EEG Electrodes Using MR Structural Images for Simultaneous fMRI-EEG. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 558981	5.1	1
56	Brain-Machine Interface Induced Morpho-Functional Remodeling of the Neural Motor System in Severe Chronic Stroke. <i>Neurotherapeutics</i> , <b>2020</b> , 17, 635-650	6.4	5
55	Multilevel diffusion tensor imaging classification technique for characterizing neurobehavioral disorders. <i>Brain Imaging and Behavior</i> , <b>2020</b> , 14, 641-652	4.1	3
54	Self-regulation of language areas using real-time functional MRI in stroke patients with expressive aphasia. <i>Brain Imaging and Behavior</i> , <b>2020</b> , 14, 1714-1730	4.1	7
53	Functional Connectivity of Language Regions of Stroke Patients with Expressive Aphasia During Real-Time Functional Magnetic Resonance Imaging Based Neurofeedback. <i>Brain Connectivity</i> , <b>2019</b> , 9, 613-626	2.7	11
52	Self-Regulation of the Fusiform Face Area in Autism Spectrum: A Feasibility Study With Real-Time fMRI Neurofeedback. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 446	3.3	5
51	Characterization of relapsing-remitting multiple sclerosis patients using support vector machine classifications of functional and diffusion MRI data. <i>NeuroImage: Clinical</i> , <b>2018</b> , 20, 724-730	5.3	39
50	Closed-loop brain training: the science of neurofeedback. <i>Nature Reviews Neuroscience</i> , <b>2017</b> , 18, 86-100	13.5	485
49	Ensemble Classification of Alzheimer's Disease and Mild Cognitive Impairment Based on Complex Graph Measures from Diffusion Tensor Images. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 56	5.1	28
48	Learned control of inter-hemispheric connectivity: Effects on bimanual motor performance. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 4353-4369	5.9	11
47	Improving Motor Corticothalamic Communication After Stroke Using Real-Time fMRI Connectivity-Based Neurofeedback. <i>Neurorehabilitation and Neural Repair</i> , <b>2016</b> , 30, 671-5	4.7	67
46	Real-Time Subject-Independent Pattern Classification of Overt and Covert Movements from fNIRS Signals. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159959	3.7	10
45	Real-Time fMRI in Neuroscience Research and Its Use in Studying the Aging Brain. <i>Frontiers in Aging Neuroscience</i> , <b>2016</b> , 8, 239	5.3	15

44	How feedback, motor imagery, and reward influence brain self-regulation using real-time fMRI. <i>Human Brain Mapping</i> , <b>2016</b> , 37, 3153-71	5.9	48
43	Neural loss aversion differences between depression patients and healthy individuals: A functional MRI investigation. <i>Neuroradiology Journal</i> , <b>2015</b> , 28, 97-105	2	29
42	Simultaneous epidural functional near-infrared spectroscopy and cortical electrophysiology as a tool for studying local neurovascular coupling in primates. <i>NeuroImage</i> , <b>2015</b> , 120, 394-9	7.9	13
41	A subject-independent pattern-based Brain-Computer Interface. <i>Frontiers in Behavioral Neuroscience</i> , <b>2015</b> , 9, 269	3.5	23
40	Flagrant Misconduct of Reviewers and Editor: A Case Study. <i>Science and Engineering Ethics</i> , <b>2015</b> , 21, 829-35	3.1	4
39	Self-Regulation of Anterior Insula with Real-Time fMRI and Its Behavioral Effects in Obsessive-Compulsive Disorder: A Feasibility Study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0135872	3.7	22
38	Lower Limb Movement Preparation in Chronic Stroke: A Pilot Study Toward an fNIRS-BCI for Gait Rehabilitation. <i>Neurorehabilitation and Neural Repair</i> , <b>2014</b> , 28, 564-75	4.7	57
37	Real-time fMRI brain computer interfaces: self-regulation of single brain regions to networks. <i>Biological Psychology</i> , <b>2014</b> , 95, 4-20	3.2	116
36	Volitional control of the anterior insula in criminal psychopaths using real-time fMRI neurofeedback: a pilot study. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 344	3.5	38
35	Insula and inferior frontal triangularis activations distinguish between conditioned brain responses using emotional sounds for basic BCI communication. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 247	3.5	10
34	Volitional Control of Neural Connectivity. <i>Biosystems and Biorobotics</i> , <b>2014</b> , 63-74	0.2	2
33	Acquired self-control of insula cortex modulates emotion recognition and brain network connectivity in schizophrenia. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 200-12	5.9	197
32	Neurofeedback-mediated self-regulation of the dopaminergic midbrain. <i>NeuroImage</i> , <b>2013</b> , 83, 817-25	7.9	59
31	Development of a Binary fMRI-BCI for Alzheimer Patients: A Semantic Conditioning Paradigm Using Affective Unconditioned Stimuli <b>2013</b> ,		5
30	Volitional regulation of the supplementary motor area with fMRI-BCI neurofeedback in Parkinson's disease: A pilot study <b>2013</b> ,		6
29	Brain-computer interfaces for neurorehabilitation. <i>Critical Reviews in Biomedical Engineering</i> , <b>2013</b> , 41, 269-79	1.1	9
28	Real-time fMRI neurofeedback: progress and challenges. <i>NeuroImage</i> , <b>2013</b> , 76, 386-99	7.9	305
27	Learned regulation of brain metabolism. <i>Trends in Cognitive Sciences</i> , <b>2013</b> , 17, 295-302	14	151

26	Resting state changes in functional connectivity correlate with movement recovery for BCI and robot-assisted upper-extremity training after stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2013</b> , 27, 53-62	4.7	176
25	Abnormal Neural Connectivity in Schizophrenia and fMRI-Brain-Computer Interface as a Potential Therapeutic Approach. <i>Frontiers in Psychiatry</i> , <b>2013</b> , 4, 17	5	44
24	A toolbox for real-time subject-independent and subject-dependent classification of brain states from fMRI signals. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 170	5.1	19
23	Acquired control of ventral premotor cortex activity by feedback training: an exploratory real-time fMRI and TMS study. <i>Neurorehabilitation and Neural Repair</i> , <b>2012</b> , 26, 256-65	4.7	107
22	Differences in hemodynamic activations between motor imagery and upper limb FES with NIRS. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 4728-31	0.9	7
21	Real-time fMRI: a tool for local brain regulation. <i>Neuroscientist</i> , <b>2012</b> , 18, 487-501	7.6	94
20	Volitional control of neuromagnetic coherence. <i>Frontiers in Neuroscience</i> , <b>2012</b> , 6, 189	5.1	23
19	Using real-time fMRI to learn voluntary regulation of the anterior insula in the presence of threat-related stimuli. <i>Social Cognitive and Affective Neuroscience</i> , <b>2012</b> , 7, 623-34	4	94
18	BCIs That Use Brain Metabolic Signals <b>2012</b> , 302-314		2
17	Toward a brain-computer interface for Alzheimer's disease patients by combining classical conditioning and brain state classification. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 31 Suppl 3, S211-20	4.3	19
16	BCI Therapeutic Applications for Improving Brain Function <b>2012</b> , 352-362		4
15	Real-time support vector classification and feedback of multiple emotional brain states. <i>NeuroImage</i> , <b>2011</b> , 56, 753-65	7.9	139
14	Real-Time Regulation and Detection of Brain States from fMRI Signals <b>2011</b> , 227-438		5
13	Quantifying the link between anatomical connectivity, gray matter volume and regional cerebral blood flow: an integrative MRI study. <i>PLoS ONE</i> , <b>2011</b> , 6, e14801	3.7	34
12	Reorganization of functional and effective connectivity during real-time fMRI-BCI modulation of prosody processing. <i>Brain and Language</i> , <b>2011</b> , 117, 123-32	2.9	59
11	Detection of cerebral reorganization induced by real-time fMRI feedback training of insula activation: a multivariate investigation. <i>Neurorehabilitation and Neural Repair</i> , <b>2011</b> , 25, 259-67	4.7	50
10	Volitional control of anterior insula activity modulates the response to aversive stimuli. A real-time functional magnetic resonance imaging study. <i>Biological Psychiatry</i> , <b>2010</b> , 68, 425-32	7.9	194
9	Effective functional mapping of fMRI data with support-vector machines. <i>Human Brain Mapping</i> , <b>2010</b> , 31, 1502-11	5.9	21

8	Self-regulation of regional cortical activity using real-time fMRI: the right inferior frontal gyrus and linguistic processing. <i>Human Brain Mapping</i> , <b>2009</b> , 30, 1605-14	5.9	183
7	Hemodynamic brain-computer interfaces for communication and rehabilitation. <i>Neural Networks</i> , <b>2009</b> , 22, 1320-8	9.1	128
6	LEARNED CONTROL OF INSULAR ACTIVITY USING fMRI BRAIN COMPUTER INTERFACE IN SCHIZOPHRENIA. <i>Schizophrenia Research</i> , <b>2008</b> , 102, 92	3.6	2
5	fMRI Brain-Computer Interfaces. <i>IEEE Signal Processing Magazine</i> , <b>2008</b> , 25, 95-106	9.4	57
4	Real-time functional magnetic resonance imaging: methods and applications. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 989-1003	3.3	202
3	Temporal classification of multichannel near-infrared spectroscopy signals of motor imagery for developing a brain-computer interface. <i>NeuroImage</i> , <b>2007</b> , 34, 1416-27	7.9	444
2	fMRI brain-computer interface: a tool for neuroscientific research and treatment. <i>Computational Intelligence and Neuroscience</i> , <b>2007</b> , 2007, 25487	3	116
1	Regulation of anterior insular cortex activity using real-time fMRI. <i>NeuroImage</i> , <b>2007</b> , 35, 1238-46	7.9	275