

# Gopikrishna Deshpande

## List of Publications by Year in descending order

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129  
papers

4,937  
citations

81900

39  
h-index

110387

64  
g-index

134  
all docs

134  
docs citations

134  
times ranked

5536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate Granger causality analysis of fMRI data. Human Brain Mapping, 2009, 30, 1361-1373.	3.6	237
2	Art for reward's sake: Visual art recruits the ventral striatum. NeuroImage, 2011, 55, 420-433.	4.2	236
3	Instantaneous and causal connectivity in resting state brain networks derived from functional MRI data. NeuroImage, 2011, 54, 1043-1052.	4.2	180
4	Effect of hemodynamic variability on Granger causality analysis of fMRI. NeuroImage, 2010, 52, 884-896.	4.2	169
5	Effective connectivity during haptic perception: A study using Granger causality analysis of functional magnetic resonance imaging data. NeuroImage, 2008, 40, 1807-1814.	4.2	167
6	Dual pathways for haptic and visual perception of spatial and texture information. NeuroImage, 2011, 57, 462-475.	4.2	143
7	Identification of neural connectivity signatures of autism using machine learning. Frontiers in Human Neuroscience, 2013, 7, 670.	2.0	142
8	Investigating Effective Brain Connectivity from fMRI Data: Past Findings and Current Issues with Reference to Granger Causality Analysis. Brain Connectivity, 2012, 2, 235-245.	1.7	124
9	Activation and Effective Connectivity Changes Following Explicit-Memory Training for Face-Name Pairs in Patients With Mild Cognitive Impairment. Neurorehabilitation and Neural Repair, 2011, 25, 210-222.	2.9	122
10	Fully Connected Cascade Artificial Neural Network Architecture for Attention Deficit Hyperactivity Disorder Classification From Functional Magnetic Resonance Imaging Data. IEEE Transactions on Cybernetics, 2015, 45, 2668-2679.	9.5	121
11	Multimodal neuroimaging based classification of autism spectrum disorder using anatomical, neurochemical, and white matter correlates. Cortex, 2015, 66, 46-59.	2.4	113
12	Behavioral Relevance of the Dynamics of the Functional Brain Connectome. Brain Connectivity, 2014, 4, 741-759.	1.7	105
13	Dynamic brain connectivity is a better predictor of PTSD than static connectivity. Human Brain Mapping, 2017, 38, 4479-4496.	3.6	102
14	Hemodynamic response function (HRF) variability confounds resting-state fMRI functional connectivity. Magnetic Resonance in Medicine, 2018, 80, 1697-1713.	3.0	101
15	Assessing and Compensating for Zero-Lag Correlation Effects in Time-Lagged Granger Causality Analysis of fMRI. IEEE Transactions on Biomedical Engineering, 2010, 57, 1446-1456.	4.2	89
16	Object familiarity modulates effective connectivity during haptic shape perception. NeuroImage, 2010, 49, 1991-2000.	4.2	89
17	Posteromedial Parietal Cortical Activity and Inputs Predict Tactile Spatial Acuity. Journal of Neuroscience, 2007, 27, 11091-11102.	3.6	84
18	Altered local coherence in the default mode network due to sevoflurane anesthesia. Brain Research, 2010, 1318, 110-121.	2.2	84

#	ARTICLE	IF	CITATIONS
19	Compromised hippocampusâ€striatum pathway as a potential imaging biomarker of mildâ€traumatic brain injury and posttraumatic stress disorder. <i>Human Brain Mapping</i> , 2017, 38, 2843-2864.	3.6	81
20	Integrated local correlation: A new measure of local coherence in fMRI data. <i>Human Brain Mapping</i> , 2009, 30, 13-23.	3.6	76
21	Effective connectivity during episodic memory retrieval in schizophrenia participants before and after antipsychotic medication. <i>Human Brain Mapping</i> , 2015, 36, 1442-1457.	3.6	72
22	Neural processing underlying tactile microspatial discrimination in the blind: A functional magnetic resonance imaging study. <i>Journal of Vision</i> , 2008, 8, 13-13.	0.3	70
23	Brain Networks Shaping Religious Belief. <i>Brain Connectivity</i> , 2014, 4, 140115093509009.	1.7	67
24	Threat-related learning relies on distinct dorsal prefrontal cortex network connectivity. <i>NeuroImage</i> , 2014, 102, 904-912.	4.2	66
25	Early life trauma and directional brain connectivity within major depression. <i>Human Brain Mapping</i> , 2014, 35, 4815-4826.	3.6	61
26	Fluid Intelligence Allows Flexible Recruitment of the Parieto-Frontal Network in Analogical Reasoning. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 22.	2.0	60
27	Diffusion of responsibility attenuates altruistic punishment: A functional magnetic resonance imaging effective connectivity study. <i>Human Brain Mapping</i> , 2016, 37, 663-677.	3.6	59
28	Nonparametric Hemodynamic Deconvolution of fMRI Using Homomorphic Filtering. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1155-1163.	8.9	57
29	Recursive Cluster Elimination Based Support Vector Machine for Disease State Prediction Using Resting State Functional and Effective Brain Connectivity. <i>PLoS ONE</i> , 2010, 5, e14277.	2.5	57
30	Neural Changes with Tactile Learning Reflect Decision-Level Reweighting of Perceptual Readout. <i>Journal of Neuroscience</i> , 2013, 33, 5387-5398.	3.6	54
31	Functional MRI of the Olfactory System in Conscious Dogs. <i>PLoS ONE</i> , 2014, 9, e86362.	2.5	53
32	Influence of Early Life Stress on Intra- and Extra-Amygdaloid Causal Connectivity. <i>Neuropsychopharmacology</i> , 2015, 40, 1782-1793.	5.4	52
33	Effective connectivity of the multiplication network: A functional MRI and multivariate granger causality mapping study. <i>Human Brain Mapping</i> , 2011, 32, 1419-1431.	3.6	51
34	Supervised machine learning for diagnostic classification from large-scale neuroimaging datasets. <i>Brain Imaging and Behavior</i> , 2020, 14, 2378-2416.	2.1	51
35	Fronto-parietal regulation of media violence exposure in adolescents: a multi-method study. <i>Social Cognitive and Affective Neuroscience</i> , 2011, 6, 537-547.	3.0	49
36	Altered Causal Connectivity of Resting State Brain Networks in Amnesic MCI. <i>PLoS ONE</i> , 2014, 9, e88476.	2.5	48

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37	Identifying disease foci from static and dynamic effective connectivity networks: Illustration in soldiers with trauma. <i>Human Brain Mapping</i> , 2018, 39, 264-287.	3.6	47
38	Diagnostic prediction of autism spectrum disorder using complex network measures in a machine learning framework. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102099.	5.7	47
39	Spatial imagery in haptic shape perception. <i>Neuropsychologia</i> , 2014, 60, 144-158.	1.6	44
40	Functional connectivity of the left and right hippocampi: Evidence for functional lateralization along the long-axis using meta-analytic approaches and ultra-high field functional neuroimaging. <i>NeuroImage</i> , 2016, 135, 64-78.	4.2	43
41	A Neural Basis for the Acquired Capability for Suicide. <i>Frontiers in Psychiatry</i> , 2016, 7, 125.	2.6	42
42	Patterns of effective connectivity during memory encoding and retrieval differ between patients with mild cognitive impairment and healthy older adults. <i>NeuroImage</i> , 2016, 124, 997-1008.	4.2	42
43	Functional Connectivity-Based Prediction of Autism on Site Harmonized ABIDE Dataset. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3628-3637.	4.2	42
44	Hemodynamic variability in soldiers with trauma: Implications for functional MRI connectivity studies. <i>NeuroImage: Clinical</i> , 2017, 16, 409-417.	2.7	40
45	Aberrant hemodynamic responses in autism: Implications for resting state fMRI functional connectivity studies. <i>NeuroImage: Clinical</i> , 2018, 19, 320-330.	2.7	40
46	PHASE SYNCHRONIZATION IN BRAIN NETWORKS DERIVED FROM CORRELATION BETWEEN PROBABILITIES OF RECURRENCES IN FUNCTIONAL MRI DATA. <i>International Journal of Neural Systems</i> , 2013, 23, 1350003.	5.2	39
47	Effective connectivity within a triple network brain system discriminates schizophrenia spectrum disorders from psychotic bipolar disorder at the single-subject level. <i>Schizophrenia Research</i> , 2019, 214, 24-33.	2.0	39
48	Functional connectivity of specific resting-state networks predicts trust and reciprocity in the trust game. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2019, 19, 165-176.	2.0	37
49	Effective connectivity of brain regions underlying third-party punishment: Functional MRI and Granger causality evidence. <i>Social Neuroscience</i> , 2017, 12, 124-134.	1.3	34
50	Altered directional connectivity between emotion network and motor network in Parkinson's disease with depression. <i>Medicine (United States)</i> , 2016, 95, e4222.	1.0	33
51	Separate brain areas for processing human and dog faces as revealed by awake fMRI in dogs ( <i>Canis</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	1.0	32
52	Functional Magnetic Resonance Imaging of the Domestic Dog: Research, Methodology, and Conceptual Issues. <i>Comparative Cognition and Behavior Reviews</i> , 2016, 11, 63-82.	2.0	31
53	Advice Taking from Humans and Machines: An fMRI and Effective Connectivity Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 542.	2.0	31
54	Enhancement of Odor-Induced Activity in the Canine Brain by Zinc Nanoparticles: A Functional MRI Study in Fully Unrestrained Conscious Dogs. <i>Chemical Senses</i> , 2016, 41, 53-67.	2.0	31

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55	Engagement of the left extrastriate body area during body-part metaphor comprehension. <i>Brain and Language</i> , 2017, 166, 1-18.	1.6	25
56	Anterior-posterior dissociation of the default mode network in dogs. <i>Brain Structure and Function</i> , 2015, 220, 1063-1076.	2.3	24
57	Psychosocial stress reactivity is associated with decreased whole-brain network efficiency and increased amygdala centrality. <i>Behavioral Neuroscience</i> , 2018, 132, 561-572.	1.2	24
58	Examining Microstructural White Matter in Active Duty Soldiers with a History of Mild Traumatic Brain Injury and Traumatic Stress. <i>Open Neuroimaging Journal</i> , 2017, 11, 46-57.	0.2	24
59	An fMRI and effective connectivity study investigating miss errors during advice utilization from human and machine agents. <i>Social Neuroscience</i> , 2017, 12, 570-581.	1.3	23
60	A New Generation of Brain-Computer Interfaces Driven by Discovery of Latent EEG-fMRI Linkages Using Tensor Decomposition. <i>Frontiers in Neuroscience</i> , 2017, 11, 246.	2.8	23
61	Dynamics of Segregation and Integration in Directional Brain Networks: Illustration in Soldiers With PTSD and Neurotrauma. <i>Frontiers in Neuroscience</i> , 2019, 13, 803.	2.8	23
62	Predicting Purchase Decisions Based on Spatio-Temporal Functional MRI Features Using Machine Learning. <i>IEEE Transactions on Autonomous Mental Development</i> , 2015, 7, 248-255.	1.6	22
63	Experimental Validation of Dynamic Granger Causality for Inferring Stimulus-Evoked Sub-100 ms Timing Differences from fMRI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 539-546.	4.9	22
64	Hemodynamic response function parameters obtained from resting-state functional MRI data in soldiers with trauma. <i>Data in Brief</i> , 2017, 14, 558-562.	1.0	21
65	fMRI hemodynamic response function (HRF) as a novel marker of brain function: applications for understanding obsessive-compulsive disorder pathology and treatment response. <i>Brain Imaging and Behavior</i> , 2021, 15, 1622-1640.	2.1	20
66	Investigating the Correspondence of Clinical Diagnostic Grouping With Underlying Neurobiological and Phenotypic Clusters Using Unsupervised Machine Learning. <i>Frontiers in Applied Mathematics and Statistics</i> , 2018, 4, .	1.3	18
67	Exploring the Neurocircuitry Underpinning Predictability of Threat in Soldiers with PTSD Compared to Deployment Exposed Controls. <i>Open Neuroimaging Journal</i> , 2016, 10, 111-124.	0.2	18
68	Tissue specificity of nonlinear dynamics in baseline fMRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 626-632.	3.0	17
69	Characterization of Structural Connectivity of the Default Mode Network in Dogs using Diffusion Tensor Imaging. <i>Scientific Reports</i> , 2016, 6, 36851.	3.3	17
70	Olfactory Network Differences in Master Sommeliers: Connectivity Analysis Using Granger Causality and Graph Theoretical Approach. <i>Brain Connectivity</i> , 2017, 7, 123-136.	1.7	17
71	Investigating Focal Connectivity Deficits in Alzheimer's Disease Using Directional Brain Networks Derived from Resting-State fMRI. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 211.	3.4	17
72	Can Patel's $\tilde{I}_d$ accurately estimate directionality of connections in brain networks from fMRI?. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2003-2010.	3.0	16

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73	Investigating Brain Connectomic Alterations in Autism Using the Reproducibility of Independent Components Derived from Resting State Functional MRI Data. <i>Frontiers in Neuroscience</i> , 2017, 11, 459.	2.8	16
74	Directional brain networks underlying OM chanting. <i>Asian Journal of Psychiatry</i> , 2018, 37, 20-25.	2.0	16
75	Comparing pet and detection dogs ( <i>Canis familiaris</i> ) on two aspects of social cognition. <i>Learning and Behavior</i> , 2020, 48, 432-443.	1.0	16
76	Humanâ€“dog relationships as a working framework for exploring humanâ€“robot attachment: a multidisciplinary review. <i>Animal Cognition</i> , 2021, 24, 371-385.	1.8	15
77	MALINI (Machine Learning in NeuroImaging): A MATLAB toolbox for aiding clinical diagnostics using resting-state fMRI data. <i>Data in Brief</i> , 2020, 29, 105213.	1.0	14
78	A rigorous approach for testing the constructionist hypotheses of brain function. <i>Behavioral and Brain Sciences</i> , 2012, 35, 148-149.	0.7	13
79	Parameterized hemodynamic response function data of healthy individuals obtained from resting-state functional MRI in a 7T MRI scanner. <i>Data in Brief</i> , 2018, 17, 1175-1179.	1.0	13
80	Strength and Temporal Variance of the Default Mode Network to Investigate Chronic Mild Traumatic Brain Injury in Service Members with Psychological Trauma. <i>Journal of Experimental Neuroscience</i> , 2019, 13, 117906951983396.	2.3	13
81	Converting knowledge into value. <i>International Journal of Physical Distribution and Logistics Management</i> , 2014, 44, 655-670.	7.4	12
82	The neural signatures of egocentric bias in normative decision-making. <i>Brain Imaging and Behavior</i> , 2019, 13, 685-698.	2.1	12
83	Combining Prospective Acquisition CorrEction (PACE) with retrospective correction to reduce motion artifacts in resting state fMRI data. <i>Brain and Behavior</i> , 2019, 9, e01341.	2.2	12
84	Investigation of True High Frequency Electrical Substrates of fMRI-Based Resting State Networks Using Parallel Independent Component Analysis of Simultaneous EEG/fMRI Data. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 74.	2.5	11
85	Estimated hemodynamic response function parameters obtained from resting state BOLD fMRI signals in subjects with autism spectrum disorder and matched healthy subjects. <i>Data in Brief</i> , 2018, 19, 1305-1309.	1.0	11
86	Identifying neuropsychiatric disorders using unsupervised clustering methods: Data and code. <i>Data in Brief</i> , 2019, 22, 570-573.	1.0	11
87	Structural Connectome Disruptions in Military Personnel with Mild Traumatic Brain Injury and Post-Traumatic Stress Disorder. <i>Journal of Neurotrauma</i> , 2020, 37, 2102-2112.	3.4	11
88	Directed Transfer Function Analysis of fMRI Data to Investigate Network Dynamics. , 2006, 2006, 671-4.		10
89	Form â€“definesâ€™ function: Neural connectivity between aesthetic perception and product purchase decisions in an fMRI study. <i>Journal of Consumer Behaviour</i> , 2016, 15, 335-347.	4.2	10
90	A Realistic Framework for Investigating Decision Making in the Brain With High Spatiotemporal Resolution Using Simultaneous EEG/fMRI and Joint ICA. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 814-825.	6.3	10

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91	Training Dogs for Awake, Unrestrained Functional Magnetic Resonance Imaging. Journal of Visualized Experiments, 2019, , .	0.3	10
92	Density-based clustering of static and dynamic functional MRI connectivity features obtained from subjects with cognitive impairment. Brain Informatics, 2020, 7, 19.	3.0	10
93	Neural Correlates of Consumer Buying Motivations: A 7T functional Magnetic Resonance Imaging (fMRI) Study. Frontiers in Neuroscience, 2017, 11, 512.	2.8	9
94	Zinc Nanoparticles Enhance Brain Connectivity in the Canine Olfactory Network: Evidence From an fMRI Study in Unrestrained Awake Dogs. Frontiers in Veterinary Science, 2018, 5, 127.	2.2	9
95	Deterioration from healthy to mild cognitive impairment and Alzheimer's disease mirrored in corresponding loss of centrality in directed brain networks. Brain Informatics, 2019, 6, 8.	3.0	9
96	Differential neural activation when voluntarily regulating emotions in service members with chronic mild traumatic brain injury. Applied Neuropsychology Adult, 2019, 26, 76-88.	1.2	9
97	Multi-Level Clustering of Dynamic Directional Brain Network Patterns and Their Behavioral Relevance. Frontiers in Neuroscience, 2019, 13, 1448.	2.8	9
98	Neural Underpinnings of Financial Decision Bias in Older Adults: Putative Theoretical Models and a Way to Reconcile Them. Frontiers in Neuroscience, 2019, 13, 184.	2.8	8
99	Dog's human social relationship: representation of human face familiarity and emotions in the dog brain. Animal Cognition, 2021, 24, 251-266.	1.8	8
100	Connectivity Analysis of Human Functional MRI Data: From Linear to Nonlinear and Static to Dynamic. Lecture Notes in Computer Science, 2006, , 17-24.	1.3	7
101	The Effect of Light Sedation with Midazolam on Functional Connectivity of the Dorsal Attention Network. Brain Sciences, 2021, 11, 1107.	2.3	6
102	Characterization of Hemodynamic Alterations in Schizophrenia and Bipolar Disorder and Their Effect on Resting-State fMRI Functional Connectivity. Schizophrenia Bulletin, 2021, , .	4.3	6
103	Detecting nonlinear dynamics of functional connectivity. , 2004, , .		5
104	Functional parcellation of the hippocampus based on its layer-specific connectivity with default mode and dorsal attention networks. NeuroImage, 2022, 254, 119078.	4.2	5
105	Effect of Intranasal Oxytocin on Resting-state Effective Connectivity in Schizophrenia. Schizophrenia Bulletin, 2022, 48, 1115-1124.	4.3	5
106	Demonstration and validation of a new pressure-based MRI-safe pain tolerance device. Journal of Neuroscience Methods, 2016, 271, 160-168.	2.5	4
107	Resting state fMRI connectivity is sensitive to laminar connectional architecture in the human brain. Brain Informatics, 2022, 9, 2.	3.0	4
108	Resting state fMRI data from subjects scanned with the EPI-PACE (Echo-planar Imaging - Prospective) Tj ETQq0 0,0rgBT /Oyerlock 10	1.0	

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109	Predicting Autism Spectrum Disorder from Brain Imaging Data by Graph Convolutional Network. , 2021, , .		3
110	Spatial embedding of fMRI for investigating local coupling in human brain. , 2005, , .		2
111	Clustering of dynamic functional connectivity features obtained from functional Magnetic Resonance Imaging data. , 2015, , .		2
112	North American Football Fans Show Neurofunctional Differences in Response to Violence: Implications for Public Health and Policy. <i>Frontiers in Public Health</i> , 2018, 6, 177.	2.7	2
113	DisConICA: a Software Package for Assessing Reproducibility of Brain Networks and their Discriminability across Disorders. <i>Neuroinformatics</i> , 2020, 18, 87-107.	2.8	2
114	A neurobehavioral study on the efficacy of price interventions in promoting healthy food choices among low socioeconomic families. <i>Scientific Reports</i> , 2020, 10, 15435.	3.3	2
115	Intrinsic functional connectivity of the frontoparietal network predicts inter-individual differences in the propensity for costly third-party punishment. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 1222-1232.	2.0	2
116	Maternal vitamin B12, folate during pregnancy and neurocognitive outcomes in young adults of the Pune Maternal Nutrition Study (PMNS) prospective birth cohort: study protocol. <i>BMJ Open</i> , 2021, 11, e046242.	1.9	2
117	Simultaneous investigation of local and distributed functional brain connectivity from fMRI data. , 2011, , .		1
118	Neurofunctional Segmentation Shifts in the Hippocampus. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 729836.	2.0	1
119	Fatigue-induced changes in brain nonlinearity inferred by nonparametric and differential equation models of fMRI. , 2011, , .		0
120	Spatial imagery is more associated with unfamiliar than familiar haptic shape perception: Activation and connectivity analyses. <i>Multisensory Research</i> , 2013, 26, 162-163.	1.1	0
121	Probabilistic Methods in Computational Neuroscience. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 535-536.	3.0	0
122	T169. COGNITIVE INSIGHT AND CORTICAL THICKNESS IN SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018, 44, S181-S181.	4.3	0
123	T141. CHARACTERIZATION OF HEMODYNAMIC ALTERATIONS IN SCHIZOPHRENIA AND BIPOLAR DISORDER AND THEIR EFFECT ON RESTING-STATE FUNCTIONAL CONNECTIVITY. <i>Schizophrenia Bulletin</i> , 2018, 44, S170-S170.	4.3	0
124	Intrauterine Exposure to Vitamin B12 and Folate Imbalance and Brain Structure in Young Adults of the Pune Maternal Nutrition Study (PMNS) Birth Cohort. <i>Current Developments in Nutrition</i> , 2021, 5, 894.	0.3	0
125	Stress-induced changes in effective connectivity during regulation of the emotional response to threat. <i>Brain Connectivity</i> , 2021, , .	1.7	0
126	Decoding item-specific information in visual short-term memory from the hippocampal DG/CA3 subfield using high-resolution fMRI. <i>Journal of Vision</i> , 2018, 18, 370.	0.3	0



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127	Research Trends in the Application of Yoga to Human Health: A Data Science Approach. International Journal of Public Mental Health & Neurosciences, 2020, 7, 8-13.	0.0	0
128	Improving Brain Dysfunction Prediction by GAN: A Functional-Connectivity Generator Approach. , 2021, , .		0
129	Directed Transfer Function Analysis of fMRI Data to Investigate Network Dynamics. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0