

Gopikrishna Deshpande

List of Publications by Year in descending order

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Version: 2024-02-01

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	Resting state fMRI connectivity is sensitive to laminar connectional architecture in the human brain. Brain Informatics, 2022, 9, 2.	3.0	4
2	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
3	Effect of Intranasal Oxytocin on Resting-state Effective Connectivity in Schizophrenia. Schizophrenia Bulletin, 2022, 48, 1115-1124.	4.3	5
4	fMRI hemodynamic response function (HRF) as a novel marker of brain function: applications for understanding obsessive-compulsive disorder pathology and treatment response. Brain Imaging and Behavior, 2021, 15, 1622-1640.	2.1	20
5	Functional Connectivity-Based Prediction of Autism on Site Harmonized ABIDE Dataset. IEEE Transactions on Biomedical Engineering, 2021, 68, 3628-3637.	4.2	42
6	Human–dog relationships as a working framework for exploring human–robot attachment: a multidisciplinary review. Animal Cognition, 2021, 24, 371-385.	1.8	15
7	Dog–human social relationship: representation of human face familiarity and emotions in the dog brain. Animal Cognition, 2021, 24, 251-266.	1.8	8
8	Intrauterine Exposure to Vitamin B12 and Folate Imbalance and Brain Structure in Young Adults of the Pune Maternal Nutrition Study (PMNS) Birth Cohort. Current Developments in Nutrition, 2021, 5, 894.	0.3	0
9	Intrinsic functional connectivity of the frontoparietal network predicts inter-individual differences in the propensity for costly third-party punishment. Cognitive, Affective and Behavioral Neuroscience, 2021, 21, 1222-1232.	2.0	2
10	Predicting Autism Spectrum Disorder from Brain Imaging Data by Graph Convolutional Network. , 2021, , .		3
11	The Effect of Light Sedation with Midazolam on Functional Connectivity of the Dorsal Attention Network. Brain Sciences, 2021, 11, 1107.	2.3	6
12	Maternal vitamin B12, folate during pregnancy and neurocognitive outcomes in young adults of the Pune Maternal Nutrition Study (PMNS) prospective birth cohort: study protocol. BMJ Open, 2021, 11, e046242.	1.9	2
13	Stress-induced changes in effective connectivity during regulation of the emotional response to threat. Brain Connectivity, 2021, , .	1.7	0
14	Neurofunctional Segmentation Shifts in the Hippocampus. Frontiers in Human Neuroscience, 2021, 15, 729836.	2.0	1
15	Improving Brain Dysfunction Prediction by GAN: A Functional-Connectivity Generator Approach. , 2021, , .		0
16	Characterization of Hemodynamic Alterations in Schizophrenia and Bipolar Disorder and Their Effect on Resting-State fMRI Functional Connectivity. Schizophrenia Bulletin, 2021, , .	4.3	6
17	DisConICA: a Software Package for Assessing Reproducibility of Brain Networks and their Discriminability across Disorders. Neuroinformatics, 2020, 18, 87-107.	2.8	2
18	Supervised machine learning for diagnostic classification from large-scale neuroimaging datasets. Brain Imaging and Behavior, 2020, 14, 2378-2416.	2.1	51

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19	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
20	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
21	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
22	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
23	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
24	Density-based clustering of static and dynamic functional MRI connectivity features obtained from subjects with cognitive impairment. <i>Brain Informatics</i> , 2020, 7, 19.	3.0	10
25	Research Trends in the Application of Yoga to Human Health: A Data Science Approach. <i>International Journal of Public Mental Health & Neurosciences</i> , 2020, 7, 8-13.	0.0	0
26	The neural signatures of egocentric bias in normative decision-making. <i>Brain Imaging and Behavior</i> , 2019, 13, 685-698.	2.1	12
27	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
28	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
29	Neural Underpinnings of Financial Decision Bias in Older Adults: Putative Theoretical Models and a Way to Reconcile Them. <i>Frontiers in Neuroscience</i> , 2019, 13, 184.	2.8	8
30	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
31	Deterioration from healthy to mild cognitive impairment and Alzheimer's disease mirrored in corresponding loss of centrality in directed brain networks. <i>Brain Informatics</i> , 2019, 6, 8.	3.0	9
32	Training Dogs for Awake, Unrestrained Functional Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2019, . .	0.3	10
33	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
34	Differential neural activation when voluntarily regulating emotions in service members with chronic mild traumatic brain injury. <i>Applied Neuropsychology Adult</i> , 2019, 26, 76-88.	1.2	9
35	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
36	Identifying neuropsychiatric disorders using unsupervised clustering methods: Data and code. <i>Data in Brief</i> , 2019, 22, 570-573.	1.0	11

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37	Multi-Level Clustering of Dynamic Directional Brain Network Patterns and Their Behavioral Relevance. <i>Frontiers in Neuroscience</i> , 2019, 13, 1448.	2.8	9
38	Hemodynamic response function (HRF) variability confounds resting-state fMRI functional connectivity. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1697-1713.	3.0	101
39	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
40	Probabilistic Methods in Computational Neuroscience. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 535-536.	3.0	0
41	Aberrant hemodynamic responses in autism: Implications for resting state fMRI functional connectivity studies. <i>NeuroImage: Clinical</i> , 2018, 19, 320-330.	2.7	40
42	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
43	T169. COGNITIVE INSIGHT AND CORTICAL THICKNESS IN SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018, 44, S181-S181.	4.3	0
44	Separate brain areas for processing human and dog faces as revealed by awake fMRI in dogs (<i>Canis</i>). <i>Journal of Neuroscience</i> , 2018, 38, 10784-10793.	1.0	32
45	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
46	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
47	Resting state fMRI data from subjects scanned with the EPI-PACE (Echo-planar Imaging - Prospective) <i>Journal of Neuroscience</i> , 2018, 38, 10784-10793.	1.0	3
48	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
49	Zinc Nanoparticles Enhance Brain Connectivity in the Canine Olfactory Network: Evidence From an fMRI Study in Unrestrained Awake Dogs. <i>Frontiers in Veterinary Science</i> , 2018, 5, 127.	2.2	9
50	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
51	Directional brain networks underlying OM chanting. <i>Asian Journal of Psychiatry</i> , 2018, 37, 20-25.	2.0	16
52	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
53	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
54	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

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55	Can Patel's \bar{I} , accurately estimate directionality of connections in brain networks from fMRI?. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2003-2010.	3.0	16
56	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
57	Dynamic brain connectivity is a better predictor of PTSD than static connectivity. <i>Human Brain Mapping</i> , 2017, 38, 4479-4496.	3.6	102
58	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
59	Engagement of the left extrastriate body area during body-part metaphor comprehension. <i>Brain and Language</i> , 2017, 166, 1-18.	1.6	25
60	Hemodynamic variability in soldiers with trauma: Implications for functional MRI connectivity studies. <i>NeuroImage: Clinical</i> , 2017, 16, 409-417.	2.7	40
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	Neural Correlates of Consumer Buying Motivations: A 7T functional Magnetic Resonance Imaging (fMRI) Study. <i>Frontiers in Neuroscience</i> , 2017, 11, 512.	2.8	9
70	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
71	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
72	Advice Taking from Humans and Machines: An fMRI and Effective Connectivity Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 542.	2.0	31

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73	A Neural Basis for the Acquired Capability for Suicide. <i>Frontiers in Psychiatry</i> , 2016, 7, 125.	2.6	42
74	Form \hat{c} -defines \hat{c} ™ 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
75	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
76	Demonstration and validation of a new pressure-based MRI-safe pain tolerance device. <i>Journal of Neuroscience Methods</i> , 2016, 271, 160-168.	2.5	4
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	Fully Connected Cascade Artificial Neural Network Architecture for Attention Deficit Hyperactivity Disorder Classification From Functional Magnetic Resonance Imaging Data. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 2668-2679.	9.5	121
85	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
86	Multimodal neuroimaging based classification of autism spectrum disorder using anatomical, neurochemical, and white matter correlates. <i>Cortex</i> , 2015, 66, 46-59.	2.4	113
87	Nonparametric Hemodynamic Deconvolution of fMRI Using Homomorphic Filtering. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1155-1163.	8.9	57
88	Influence of Early Life Stress on Intra- and Extra-Amygdaloid Causal Connectivity. <i>Neuropsychopharmacology</i> , 2015, 40, 1782-1793.	5.4	52
89	Clustering of dynamic functional connectivity features obtained from functional Magnetic Resonance Imaging data. , 2015, , .		2
90	Anterior \hat{c} posterior dissociation of the default mode network in dogs. <i>Brain Structure and Function</i> , 2015, 220, 1063-1076.	2.3	24

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91	Threat-related learning relies on distinct dorsal prefrontal cortex network connectivity. <i>NeuroImage</i> , 2014, 102, 904-912.	4.2	66
92	Early life trauma and directional brain connectivity within major depression. <i>Human Brain Mapping</i> , 2014, 35, 4815-4826.	3.6	61
93	Brain Networks Shaping Religious Belief. <i>Brain Connectivity</i> , 2014, 4, 140115093509009.	1.7	67
94	Converting knowledge into value. <i>International Journal of Physical Distribution and Logistics Management</i> , 2014, 44, 655-670.	7.4	12
95	Behavioral Relevance of the Dynamics of the Functional Brain Connectome. <i>Brain Connectivity</i> , 2014, 4, 741-759.	1.7	105
96	Spatial imagery in haptic shape perception. <i>Neuropsychologia</i> , 2014, 60, 144-158.	1.6	44
97	Functional MRI of the Olfactory System in Conscious Dogs. <i>PLoS ONE</i> , 2014, 9, e86362.	2.5	53
98	Altered Causal Connectivity of Resting State Brain Networks in Amnesic MCI. <i>PLoS ONE</i> , 2014, 9, e88476.	2.5	48
99	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
100	Neural Changes with Tactile Learning Reflect Decision-Level Reweighting of Perceptual Readout. <i>Journal of Neuroscience</i> , 2013, 33, 5387-5398.	3.6	54
101	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
102	Identification of neural connectivity signatures of autism using machine learning. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 670.	2.0	142
103	A rigorous approach for testing the constructionist hypotheses of brain function. <i>Behavioral and Brain Sciences</i> , 2012, 35, 148-149.	0.7	13
104	Investigating Effective Brain Connectivity from fMRI Data: Past Findings and Current Issues with Reference to Granger Causality Analysis. <i>Brain Connectivity</i> , 2012, 2, 235-245.	1.7	124
105	Fatigue-induced changes in brain nonlinearity inferred by nonparametric and differential equation models of fMRI. , 2011, , .		0
106	Simultaneous investigation of local and distributed functional brain connectivity from fMRI data. , 2011, , .		1
107	Dual pathways for haptic and visual perception of spatial and texture information. <i>NeuroImage</i> , 2011, 57, 462-475.	4.2	143
108	Instantaneous and causal connectivity in resting state brain networks derived from functional MRI data. <i>NeuroImage</i> , 2011, 54, 1043-1052.	4.2	180

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109	Art for reward's sake: Visual art recruits the ventral striatum. <i>NeuroImage</i> , 2011, 55, 420-433.	4.2	236
110	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
111	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
112	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
113	Activation and Effective Connectivity Changes Following Explicit-Memory Training for Face-Name Pairs in Patients With Mild Cognitive Impairment. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 210-222.	2.9	122
114	Assessing and Compensating for Zero-Lag Correlation Effects in Time-Lagged Granger Causality Analysis of fMRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1446-1456.	4.2	89
115	Altered local coherence in the default mode network due to sevoflurane anesthesia. <i>Brain Research</i> , 2010, 1318, 110-121.	2.2	84
116	Object familiarity modulates effective connectivity during haptic shape perception. <i>NeuroImage</i> , 2010, 49, 1991-2000.	4.2	89
117	Effect of hemodynamic variability on Granger causality analysis of fMRI. <i>NeuroImage</i> , 2010, 52, 884-896.	4.2	169
118	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
119	Integrated local correlation: A new measure of local coherence in fMRI data. <i>Human Brain Mapping</i> , 2009, 30, 13-23.	3.6	76
120	Multivariate Granger causality analysis of fMRI data. <i>Human Brain Mapping</i> , 2009, 30, 1361-1373.	3.6	237
121	Effective connectivity during haptic perception: A study using Granger causality analysis of functional magnetic resonance imaging data. <i>NeuroImage</i> , 2008, 40, 1807-1814.	4.2	167
122	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
123	Posteromedial Parietal Cortical Activity and Inputs Predict Tactile Spatial Acuity. <i>Journal of Neuroscience</i> , 2007, 27, 11091-11102.	3.6	84
124	Tissue specificity of nonlinear dynamics in baseline fMRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 626-632.	3.0	17
125	Directed Transfer Function Analysis of fMRI Data to Investigate Network Dynamics. , 2006, 2006, 671-4.		10
126	Connectivity Analysis of Human Functional MRI Data: From Linear to Nonlinear and Static to Dynamic. <i>Lecture Notes in Computer Science</i> , 2006, , 17-24.	1.3	7

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127	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
128	Spatial embedding of fMRI for investigating local coupling in human brain. , 2005, , .		2
129	Detecting nonlinear dynamics of functional connectivity. , 2004, , .		5