Adeel Razi

List of Publications by Year
in descending order

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91 papers	5,058 citations	136740 32 h-index	118652 62 g-index
115 all docs	115 docs citations	115 times ranked	5413 citing authors

#	Article	IF	Citations
1	Bayesian model reduction and empirical Bayes for group (DCM) studies. NeuroImage, 2016, 128, 413-431.	2.1	475
2	A DCM for resting state fMRI. NeuroImage, 2014, 94, 396-407.	2.1	460
3	Questions and controversies in the study of time-varying functional connectivity in resting fMRI. Network Neuroscience, 2020, 4, 30-69.	1.4	364
4	Construct validation of a DCM for resting state fMRI. NeuroImage, 2015, 106, 1-14.	2.1	245
5	A guide to group effective connectivity analysis, part 1: First level analysis with DCM for fMRI. NeuroImage, 2019, 200, 174-190.	2.1	242
6	Dynamic causal modelling revisited. NeuroImage, 2019, 199, 730-744.	2.1	196
7	Effective connectivity changes in LSD-induced altered states of consciousness in humans. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2743-2748.	3.3	186
8	Extrinsic and Intrinsic Brain Network Connectivity Maintains Cognition across the Lifespan Despite Accelerated Decay of Regional Brain Activation. Journal of Neuroscience, 2016, 36, 3115-3126.	1.7	185
9	Machine Learning for Predicting Epileptic Seizures Using EEG Signals: A Review. IEEE Reviews in Biomedical Engineering, 2021, 14, 139-155.	13.1	148
10	Large-scale DCMs for resting-state fMRI. Network Neuroscience, 2017, 1, 222-241.	1.4	146
11	The Hierarchical Organization of the Default, Dorsal Attention and Salience Networks in Adolescents and Young Adults. Cerebral Cortex, 2018, 28, 726-737.	1.6	144
12	Secrecy Sum-Rates for Multi-User MIMO Regularized Channel Inversion Precoding. IEEE Transactions on Communications, 2012, 60, 3472-3482.	4.9	136
13	Leveraging Data Science to Combat COVID-19: A Comprehensive Review. IEEE Transactions on Artificial Intelligence, 2020, 1, 85-103.	3.4	134
14	Regression DCM for fMRI. NeuroImage, 2017, 155, 406-421.	2.1	124
15	Compensation in Preclinical Huntington's Disease: Evidence From the Track-On HD Study. EBioMedicine, 2015, 2, 1420-1429.	2.7	122
16	Dynamic effective connectivity in resting state fMRI. NeuroImage, 2018, 180, 594-608.	2.1	100
17	Selective vulnerability of Rich Club brain regions is an organizational principle of structural connectivity loss in Huntingtonâ€™s disease. Brain, 2015, 138, 3327-3344.	3.7	96
18	Brain Regions Showing White Matter Loss inÂHuntingtonâ€™s Disease Are Enriched for Synaptic and Metabolic Genes. Biological Psychiatry, 2018, 83, 456-465.	0.7	79

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19	The physiological effects of noninvasive brain stimulation fundamentally differ across the human cortex. Science Advances, 2020, 6, eaay2739.	4.7	73
20	On nodes and modes in resting state fMRI. NeuroImage, 2014, 99, 533-547.	2.1	72
21	Inferring neural signalling directionality from undirected structural connectomes. Nature Communications, 2019, 10, 4289.	5.8	69
22	On Markov blankets and hierarchical self-organisation. Journal of Theoretical Biology, 2020, 486, 110089.	0.8	63
23	Operationalizing compensation over time in neurodegenerative disease. Brain, 2017, 140, 1158-1165.	3.7	62
24	The Connected Brain: Causality, models, and intrinsic dynamics. IEEE Signal Processing Magazine, 2016, 33, 14-35.	4.6	61
25	Altered intrinsic and extrinsic connectivity in schizophrenia. NeuroImage: Clinical, 2018, 17, 704-716.	1.4	55
26	Variability and reliability of effective connectivity within the core default mode network: A multi-site longitudinal spectral DCM study. NeuroImage, 2018, 183, 757-768.	2.1	51
27	Parcels and particles: Markov blankets in the brain. Network Neuroscience, 2021, 5, 211-251.	1.4	48
28	Convergence of cortical types and functional motifs in the human mesiotemporal lobe. ELife, 2020, 9, .	2.8	46
29	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	0.9	41
30	Sum rates, rate allocation, and user scheduling for multi-user MIMO vector perturbation precoding. IEEE Transactions on Wireless Communications, 2010, 9, 356-365.	6.1	40
31	Transdiagnostic variations in impulsivity and compulsivity in obsessive-compulsive disorder and gambling disorder correlate with effective connectivity in cortical-striatal-thalamic-cortical circuits. NeuroImage, 2019, 202, 116070.	2.1	40
32	Second waves, social distancing, and the spread of COVID-19 across America. Wellcome Open Research, 2020, 5, 103.	0.9	40
33	White matter predicts functional connectivity in premanifest Huntington's disease. Annals of Clinical and Translational Neurology, 2017, 4, 106-118.	1.7	38
34	Dynamic causal modelling of fluctuating connectivity in resting-state EEG. NeuroImage, 2019, 189, 476-484.	2.1	37
35	Topological length of white matter connections predicts their rate of atrophy in premanifest Huntingtonâ€™s disease. JCI Insight, 2017, 2, .	2.3	37
36	Hierarchical Dynamic Causal Modeling of Resting-State fMRI Reveals Longitudinal Changes in Effective Connectivity in the Motor System after Thalamotomy for Essential Tremor. Frontiers in Neurology, 2017, 8, 346.	1.1	36

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37	Testing a longitudinal compensation model in premanifest Huntingtonâ€™s disease. Brain, 2018, 141, 2156-2166.	3.7	33
38	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	0.9	32
39	A mathematical perspective on edge-centric brain functional connectivity. Nature Communications, 2022, 13, 2693.	5.8	31
40	Bayesian fusion and multimodal DCM for EEG and fMRI. NeuroImage, 2020, 211, 116595.	2.1	30
41	Structural and functional brain network correlates of depressive symptoms in premanifest Huntington's disease. Human Brain Mapping, 2017, 38, 2819-2829.	1.9	28
42	A Generative Model to Synthesize EEG Data for Epileptic Seizure Prediction. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2322-2332.	2.7	27
43	Using resting-state DMN effective connectivity to characterize the neurofunctional architecture of empathy. Scientific Reports, 2019, 9, 2603.	1.6	26
44	Mapping Smoking Addiction Using Effective Connectivity Analysis. Frontiers in Human Neuroscience, 2016, 10, 195.	1.0	23
45	Second waves, social distancing, and the spread of COVID-19 across the USA. Wellcome Open Research, 2020, 5, 103.	0.9	20
46	Spectral dynamic causal modelling in healthy women reveals brain connectivity changes along the menstrual cycle. Communications Biology, 2021, 4, 954.	2.0	20
47	A validation of dynamic causal modelling for 7T fMRI. Journal of Neuroscience Methods, 2018, 305, 36-45.	1.3	18
48	The neurophysiological architecture of semantic dementia: spectral dynamic causal modelling of a neurodegenerative proteinopathy. Scientific Reports, 2020, 10, 16321.	1.6	16
49	The effect of global signal regression on DCM estimates of noise and effective connectivity from resting state fMRI. NeuroImage, 2020, 208, 116435.	2.1	14
50	Brain Injury and Dementia in Pakistan: Current Perspectives. Frontiers in Neurology, 2020, 11, 299.	1.1	13
51	Testing and tracking in the UK: A dynamic causal modelling study. Wellcome Open Research, 0, 5, 144.	0.9	12
52	Neural network modelling reveals changes in directional connectivity between cortical and hypothalamic regions with increased BMI. International Journal of Obesity, 2021, 45, 2447-2454.	1.6	11
53	Imbalanced basal ganglia connectivity is associated with motor deficits and apathy in Huntingtonâ€™s disease. Brain, 2022, 145, 991-1000.	3.7	11
54	Rostral anterior cingulate network effective connectivity in depressed adolescents and associations with treatment response in a randomized controlled trial. Neuropsychopharmacology, 2022, 47, 1240-1248.	2.8	11

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55	Secrecy sum-rates for multi-user MIMO linear precoding. , 2011, , .		10
56	Tracking HuntingtonÊ¼s Disease Progression Using Motor, Functional, Cognitive, and Imaging Markers. Movement Disorders, 2021, 36, 2282-2292.	2.2	10
57	Tight upper bounds on average detection probability in cooperative relay networks with selection combiner. Transactions on Emerging Telecommunications Technologies, 2015, 26, 340-345.	2.6	9
58	Asymmetric high-order anatomical brain connectivity sculpts effective connectivity. Network Neuroscience, 2020, 4, 871-890.	1.4	9
59	Analysis of Energy Detector in Cooperative Relay Networks for Cognitive Radios. , 2013, , .		8
60	Effective connectivity during face processing in major depression â€“ distinguishing markers of pathology, risk, and resilience. Psychological Medicine, 2023, 53, 4139-4151.	2.7	8
61	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. BMC Neuroscience, 2017, 18, .	0.8	7
62	Blue-Light Therapy Strengthens Resting-State Effective Connectivity within Default-Mode Network after Mild TBI. Journal of Central Nervous System Disease, 2021, 13, 117957352110150.	0.7	7
63	Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204.	0.9	7
64	Progressive modulation of resting-state brain activity during neurofeedback of positive-social emotion regulation networks. Scientific Reports, 2021, 11, 23363.	1.6	7
65	Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204.	0.9	6
66	Sum Rates and User Scheduling for Multi-User MIMO Vector Perturbation Precoding. , 2009, , .		5
67	Performance of Vector Perturbation Multiuser MIMO Systems over Correlated Channels. , 2010, , .		4
68	Editorial: Mapping Psychopathology with fMRI and Effective Connectivity Analysis. Frontiers in Human Neuroscience, 2017, 11, 151.	1.0	4
69	Identification of community structure-based brain states and transitions using functional MRI. NeuroImage, 2021, 244, 118635.	2.1	4
70	Reduced Precision Underwrites Ego Dissolution and Therapeutic Outcomes Under Psychedelics. Frontiers in Neuroscience, 2022, 16, 827400.	1.4	4
71	Testing and tracking in the UK: A dynamic causal modelling study. Wellcome Open Research, 0, 5, 144.	0.9	3
72	Neurofilament light-associated connectivity in young-adult Huntingtonâ€™s disease is related to neuronal genes. Brain, 2022, 145, 3953-3967.	3.7	3

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73	Sum rates for regularized multi-user MIMO vector perturbation precoding. , 2011, , .		2
74	User scheduling for multiâ€antenna downland channels with limited feedback. Transactions on Emerging Telecommunications Technologies, 2012, 23, 36-49.	2.6	2
75	Volitional modulation of higher-order visual cortex alters human perception. NeuroImage, 2019, 188, 291-301.	2.1	2
76	Second waves, social distancing, and the spread of COVID-19 across the USA. Wellcome Open Research, 0, 5, 103.	0.9	2
77	Effective Connectivity of Fronto-Striato-Thalamic Circuitry Across the Psychosis Continuum. Biological Psychiatry, 2021, 89, S356.	0.7	2
78	Comparison of time domain and frequency domain equalizers for indoor UWB systems. , 2008, , .		1
79	Feedback reduction schemes for MIMO broadcast channels. , 2008, , .		1
80	Performance Analysis of Multi-Branch Non-Regenerative Relay Systems with EGC in Nakagami-m Channels. , 2009, , .		1
81	Comparison of time domain and frequency domain equalization for HSDPA channel. , 2010, , .		0
82	Performance Analysis of Multibranch Dual-Hop Nonregenerative Relay Systems with EGC in Nakagami-m Channels. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	0
83	Sum rates for multi-user MIMO vector perturbation precoding with regularization. Physical Communication, 2014, 13, 187-196.	1.2	0
84	Mapping the smoking addiction using dynamic causal modelling at rest. BMC Neuroscience, 2015, 16, .	0.8	0
85	D18â€...Brain network breakdown and pathophysiological correlates in huntingtonâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A40.2-A40.	0.9	0
86	D21â€...Longitudinal compensation in the cognitive network in huntingtonâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A42.1-A42.	0.9	0
87	D20â€...Operationalising compensation over time in neurodegenerative disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A41.2-A41.	0.9	0
88	D22â€...Compensation in preclinical huntingtonâ€™s disease: evidence from the track-on HD study. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A42.2-A42.	0.9	0
89	1609â€...Length of white matter connexions determine their rate of atrophy in premanifest huntingtonâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, A9.2-A9.	0.9	0
90	E11â€...Compensation in huntingtonâ€™s disease. , 2018, , .		0

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91	Computational Modelling of Pathogenic Protein Behaviour-Governing Mechanisms in the Brain. Lecture Notes in Computer Science, 2018, , 532-539.	1.0	0