

# Adeel Razi

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

5,058  
citations

136885

32  
h-index

118793

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. <i>NeuroImage</i> , 2016, 128, 413-431.	2.1	475
2	A DCM for resting state fMRI. <i>NeuroImage</i> , 2014, 94, 396-407.	2.1	460
3	Questions and controversies in the study of time-varying functional connectivity in resting fMRI. <i>Network Neuroscience</i> , 2020, 4, 30-69.	1.4	364
4	Construct validation of a DCM for resting state fMRI. <i>NeuroImage</i> , 2015, 106, 1-14.	2.1	245
5	A guide to group effective connectivity analysis, part 1: First level analysis with DCM for fMRI. <i>NeuroImage</i> , 2019, 200, 174-190.	2.1	242
6	Dynamic causal modelling revisited. <i>NeuroImage</i> , 2019, 199, 730-744.	2.1	196
7	Effective connectivity changes in LSD-induced altered states of consciousness in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Journal of Neuroscience</i> , 2016, 36, 3115-3126.	1.7	185
9	Machine Learning for Predicting Epileptic Seizures Using EEG Signals: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2021, 14, 139-155.	13.1	148
10	Large-scale DCMs for resting-state fMRI. <i>Network Neuroscience</i> , 2017, 1, 222-241.	1.4	146
11	The Hierarchical Organization of the Default, Dorsal Attention and Salience Networks in Adolescents and Young Adults. <i>Cerebral Cortex</i> , 2018, 28, 726-737.	1.6	144
12	Secrecy Sum-Rates for Multi-User MIMO Regularized Channel Inversion Precoding. <i>IEEE Transactions on Communications</i> , 2012, 60, 3472-3482.	4.9	136
13	Leveraging Data Science to Combat COVID-19: A Comprehensive Review. <i>IEEE Transactions on Artificial Intelligence</i> , 2020, 1, 85-103.	3.4	134
14	Regression DCM for fMRI. <i>NeuroImage</i> , 2017, 155, 406-421.	2.1	124
15	Compensation in Preclinical Huntington's Disease: Evidence From the Track-On HD Study. <i>EBioMedicine</i> , 2015, 2, 1420-1429.	2.7	122
16	Dynamic effective connectivity in resting state fMRI. <i>NeuroImage</i> , 2018, 180, 594-608.	2.1	100
17	Selective vulnerability of Rich Club brain regions is an organizational principle of structural connectivity loss in Huntington's disease. <i>Brain</i> , 2015, 138, 3327-3344.	3.7	96
18	Brain Regions Showing White Matter Loss in Huntington's Disease Are Enriched for Synaptic and Metabolic Genes. <i>Biological Psychiatry</i> , 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. <i>Science Advances</i> , 2020, 6, eaay2739.	4.7	73
20	On nodes and modes in resting state fMRI. <i>NeuroImage</i> , 2014, 99, 533-547.	2.1	72
21	Inferring neural signalling directionality from undirected structural connectomes. <i>Nature Communications</i> , 2019, 10, 4289.	5.8	69
22	On Markov blankets and hierarchical self-organisation. <i>Journal of Theoretical Biology</i> , 2020, 486, 110089.	0.8	63
23	Operationalizing compensation over time in neurodegenerative disease. <i>Brain</i> , 2017, 140, 1158-1165.	3.7	62
24	The Connected Brain: Causality, models, and intrinsic dynamics. <i>IEEE Signal Processing Magazine</i> , 2016, 33, 14-35.	4.6	61
25	Altered intrinsic and extrinsic connectivity in schizophrenia. <i>NeuroImage: Clinical</i> , 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. <i>NeuroImage</i> , 2018, 183, 757-768.	2.1	51
27	Parcels and particles: Markov blankets in the brain. <i>Network Neuroscience</i> , 2021, 5, 211-251.	1.4	48
28	Convergence of cortical types and functional motifs in the human mesiotemporal lobe. <i>ELife</i> , 2020, 9, .	2.8	46
29	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020, 5, 89.	0.9	41
30	Sum rates, rate allocation, and user scheduling for multi-user MIMO vector perturbation precoding. <i>IEEE Transactions on Wireless Communications</i> , 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. <i>NeuroImage</i> , 2019, 202, 116070.	2.1	40
32	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020, 5, 103.	0.9	40
33	White matter predicts functional connectivity in premanifest Huntington's disease. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 106-118.	1.7	38
34	Dynamic causal modelling of fluctuating connectivity in resting-state EEG. <i>NeuroImage</i> , 2019, 189, 476-484.	2.1	37
35	Topological length of white matter connections predicts their rate of atrophy in premanifest Huntington's disease. <i>JCI Insight</i> , 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. <i>Frontiers in Neurology</i> , 2017, 8, 346.	1.1	36

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37	Testing a longitudinal compensation model in premanifest Huntington's disease. <i>Brain</i> , 2018, 141, 2156-2166.	3.7	33
38	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020, 5, 89.	0.9	32
39	A mathematical perspective on edge-centric brain functional connectivity. <i>Nature Communications</i> , 2022, 13, 2693.	5.8	31
40	Bayesian fusion and multimodal DCM for EEG and fMRI. <i>NeuroImage</i> , 2020, 211, 116595.	2.1	30
41	Structural and functional brain network correlates of depressive symptoms in premanifest Huntington's disease. <i>Human Brain Mapping</i> , 2017, 38, 2819-2829.	1.9	28
42	A Generative Model to Synthesize EEG Data for Epileptic Seizure Prediction. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 2322-2332.	2.7	27
43	Using resting-state DMN effective connectivity to characterize the neurofunctional architecture of empathy. <i>Scientific Reports</i> , 2019, 9, 2603.	1.6	26
44	Mapping Smoking Addiction Using Effective Connectivity Analysis. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 195.	1.0	23
45	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> , 2020, 5, 103.	0.9	20
46	Spectral dynamic causal modelling in healthy women reveals brain connectivity changes along the menstrual cycle. <i>Communications Biology</i> , 2021, 4, 954.	2.0	20
47	A validation of dynamic causal modelling for 7T fMRI. <i>Journal of Neuroscience Methods</i> , 2018, 305, 36-45.	1.3	18
48	The neurophysiological architecture of semantic dementia: spectral dynamic causal modelling of a neurodegenerative proteinopathy. <i>Scientific Reports</i> , 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. <i>NeuroImage</i> , 2020, 208, 116435.	2.1	14
50	Brain Injury and Dementia in Pakistan: Current Perspectives. <i>Frontiers in Neurology</i> , 2020, 11, 299.	1.1	13
51	Testing and tracking in the UK: A dynamic causal modelling study. <i>Wellcome Open Research</i> , 0, 5, 144.	0.9	12
52	Neural network modelling reveals changes in directional connectivity between cortical and hypothalamic regions with increased BMI. <i>International Journal of Obesity</i> , 2021, 45, 2447-2454.	1.6	11
53	Imbalanced basal ganglia connectivity is associated with motor deficits and apathy in Huntington's disease. <i>Brain</i> , 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. <i>Neuropsychopharmacology</i> , 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 Huntington's 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 – 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 Huntington's disease is related to neuronal genes. Brain, 2022, 145, 3953-3967.	3.7	3

#	ARTICLE	IF	CITATIONS
73	Sum rates for regularized multi-user MIMO vector perturbation precoding. , 2011, , .		2
74	User scheduling for multi-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