Shi Gu

List of Publications by Year
in descending order

24 papers	2,539 citations	516710 16 h-index	610901 24 g-index
32 all docs	32 docs citations	32 times ranked	3034 citing authors

#	Article	IF	Citations
1	Detecting brain lesions in suspected acute ischemic stroke with CT-based synthetic MRI using generative adversarial networks. Annals of Translational Medicine, 2022, 10, 35-35.	1.7	11
2	Age-associated network controllability changes in first episode drug-naïve schizophrenia. BMC Psychiatry, 2022, 22, 26.	2.6	2
3	Network controllability mediates the relationship between rigid structure and flexible dynamics. Network Neuroscience, 2022, 6, 275-297.	2.6	9
4	Control theory illustrates the energy efficiency in the dynamic reconfiguration of functional connectivity. Communications Biology, 2022, 5, 295.	4.4	7
5	Measurement reliability for individual differences in multilayer network dynamics: Cautions and considerations. NeuroImage, 2021, 225, 117489.	4.2	24
6	Pairwise maximum entropy model explains the role of white matter structure in shaping emergent co-activation states. Communications Biology, 2021, 4, 210.	4.4	10
7	Benchmarking Measures of Network Controllability on Canonical Graph Models. Journal of Nonlinear Science, 2020, 30, 2195-2233.	2.1	27
8	Unifying the Notions of Modularity and Core–Periphery Structure in Functional Brain Networks during Youth. Cerebral Cortex, 2020, 30, 1087-1102.	2.9	16
9	Optimization of energy state transition trajectory supports the development of executive function during youth. ELife, 2020, 9, .	6.0	47
10	RE: Warnings and caveats in brain controllability. NeuroImage, 2019, 197, 586-588.	4.2	19
11	Temporal lobe epilepsy. Neurology, 2019, 92, e2209-e2220.	1.1	80
12	The Energy Landscape of Neurophysiological Activity Implicit in Brain Network Structure. Scientific Reports, 2018, 8, 2507.	3.3	81
13	Detecting hierarchical genome folding with network modularity. Nature Methods, 2018, 15, 119-122.	19.0	106
14	Linked dimensions of psychopathology and connectivity in functional brain networks. Nature Communications, 2018, 9, 3003.	12.8	323
15	Network changes associated with transdiagnostic depressive symptom improvement following cognitive behavioral therapy in MDD and PTSD. Molecular Psychiatry, 2018, 23, 2314-2323.	7.9	30
16	Optimal trajectories of brain state transitions. NeuroImage, 2017, 148, 305-317.	4.2	143
17	Functional hypergraph uncovers novel covariant structures over neurodevelopment. Human Brain Mapping, 2017, 38, 3823-3835.	3.6	44
18	The energy landscape underpinning module dynamics in the human brain connectome. NeuroImage, 2017, 157, 364-380.	4.2	53

#	ARTICLE	IF	CITATIONS
19	Developmental increases in white matter network controllability support a growing diversity of brain dynamics. Nature Communications, 2017, 8, 1252.	12.8	140
20	Autaptic Connections Shift Network Excitability and Bursting. Scientific Reports, 2017, 7, 44006.	3.3	39
21	Stimulation-Based Control of Dynamic Brain Networks. PLoS Computational Biology, 2016, 12, e1005076.	3.2	234
22	Optimally controlling the human connectome: the role of network topology. Scientific Reports, 2016, 6, 30770.	3.3	190
23	Controllability of structural brain networks. Nature Communications, 2015, 6, 8414.	12.8	600
24	Emergence of system roles in normative neurodevelopment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13681-13686.	7.1	292