Dipanjan Roy

List of Publications by Year
in descending order

34	687	687363 13	713466 21
papers	citations	h-index	g-index

50	50	50	925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atypical Flexibility in Dynamic Functional Connectivity Quantifies the Severity in Autism Spectrum Disorder. Frontiers in Human Neuroscience, 2019, 13, 6.	2.0	78
2	Metastability in Senescence. Trends in Cognitive Sciences, 2017, 21, 509-521.	7.8	60
3	Integrative Analysis of Hippocampus Gene Expression Profiles Identifies Network Alterations in Aging and Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2018, 10, 153.	3.4	58
4	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. Frontiers in Computational Neuroscience, 2014, 8, 36.	2.1	56
5	Using the Virtual Brain to Reveal the Role of Oscillations and Plasticity in Shaping Brain's Dynamical Landscape. Brain Connectivity, 2014, 4, 791-811.	1.7	47
6	Aperiodic and Periodic Components of Ongoing Oscillatory Brain Dynamics Link Distinct Functional Aspects of Cognition across Adult Lifespan. ENeuro, 2021, 8, ENEURO.0224-21.2021.	1.9	34
7	Does the regulation of local excitationâ€“inhibition balance aid in recovery of functional connectivity? A computational account. NeuroImage, 2016, 136, 57-67.	4.2	32
8	Large Scale Functional Brain Networks Underlying Temporal Integration of Audio-Visual Speech Perception: An EEG Study. Frontiers in Psychology, 2016, 7, 1558.	2.1	29
9	Lifespan associated global patterns of coherent neural communication. NeuroImage, 2020, 216, 116824.	4.2	27
10	Multiple Kernel Learning Model for Relating Structural and Functional Connectivity in the Brain. Scientific Reports, 2018, 8, 3265.	3.3	20
11	Resting state dynamics meets anatomical structure: Temporal multiple kernel learning (tMKL) model. NeuroImage, 2019, 184, 609-620.	4.2	19
12	Phase description of spiking neuron networks with global electric and synaptic coupling. Physical Review E, 2011, 83, 051909.	2.1	18
13	Multiscale dynamic mean field (MDMF) model relates resting-state brain dynamics with local cortical excitatoryâ€“inhibitory neurotransmitter homeostasis. Network Neuroscience, 2021, 5, 1-26.	2.6	17
14	Brain State Dependent Postinhibitory Rebound in Entorhinal Cortex Interneurons. Journal of Neuroscience, 2012, 32, 6501-6510.	3.6	14
15	Near-Infrared Spectroscopy â€“ Electroencephalography-Based Brain-State-Dependent Electrotherapy: A Computational Approach Based on Excitationâ€“Inhibition Balance Hypothesis. Frontiers in Neurology, 2016, 7, 123.	2.4	14
16	Age, Disease, and Their Interaction Effects on Intrinsic Connectivity of Children and Adolescents in Autism Spectrum Disorder Using Functional Connectomics. Brain Connectivity, 2018, 8, 407-419.	1.7	14
17	Identification and Classification of Hubs in microRNA Target Gene Networks in Human Neural Stem/Progenitor Cells following Japanese Encephalitis Virus Infection. MSphere, 2019, 4, .	2.9	14
18	Large-scale Functional Integration, Rather than Functional Dissociation along Dorsal and Ventral Streams, Underlies Visual Perception and Action. Journal of Cognitive Neuroscience, 2020, 32, 847-861.	2.3	14

#	Article	IF	Citations
19	Reconfiguration of Directed Functional Connectivity Among Neurocognitive Networks with Aging: Considering the Role of Thalamo-Cortical Interactions. Cerebral Cortex, 2021, 31, 1970-1986.	2.9	14
20	Biophysical mechanism underlying compensatory preservation of neural synchrony over the adult lifespan. Communications Biology, 2022, 5, .	4.4	14
21	Biophysical mechanisms governing largeâ€scale brain network dynamics underlying individualâ€specific variability of perception. European Journal of Neuroscience, 2020, 52, 3746-3762.	2.6	10
22	An EEG-Based Image Annotation System. Communications in Computer and Information Science, 2018, , 303-313.	0.5	9
23	Inferring network properties of cortical neurons with synaptic coupling and parameter dispersion. Frontiers in Computational Neuroscience, 2013, 7, 20.	2.1	8
24	Neural Substrate of Group Mental Health: Insights from Multi-Brain Reference Frame in Functional Neuroimaging. Frontiers in Psychology, 2017, 8, 1627.	2.1	7
25	Metastability of cortical BOLD signals in maturation and senescence. , 2017, , .		6
26	Segregation and Integration of Cortical Information Processing Underlying Cross-Modal Perception. Multisensory Research, 2018, 31, 481-500.	1.1	6
27	Editorial: Temporal Structure of Neural Processes Coupling Sensory, Motor and Cognitive Functions of the Brain. Frontiers in Computational Neuroscience, 2020, 14, 73.	2.1	6
28	Atypical core-periphery brain dynamics in autism. Network Neuroscience, 2021, 5, 295-321.	2.6	6
29	Organization of directed functional connectivity among nodes of ventral attention network reveals the common network mechanisms underlying saliency processing across distinct spatial and spatio-temporal scales. NeuroImage, 2021, 231, 117869.	4.2	6
30	Stability of sensorimotor network sculpts the dynamic repertoire of resting state over lifespan. Cerebral Cortex, 2023, 33, 1246-1262.	2.9	6
31	Contextual prediction errors reorganize naturalistic episodic memories in time. Scientific Reports, 2021, 11, 12364.	3.3	4
32	Promises and pitfalls of relating alteration of white matter pathways causing improvement in cognitive performance. Cognitive Neuroscience, 2017, 8, 120-122.	1.4	1
33	Generative framework for dimensionality reduction of large scale network of nonlinear dynamical systems driven by external input. New Journal of Physics, 2019, 21, 072001.	2.9	0
34	Psychophysical data to study the brain network mechanisms involved in reorienting attention to salient events during goal-directed visual discrimination and search tasks. Data in Brief, 2021, 36, 107020.	1.0	0