Jonathan Crofts

List of Publications by Year
in descending order

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23 papers	617 citations	840776 11 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	986 citing authors

#	Article	IF	Citations
1	Network analysis detects changes in the contralesional hemisphere following stroke. NeuroImage, 2011, 54, 161-169.	4.2	204
2	A weighted communicability measure applied to complex brain networks. Journal of the Royal Society Interface, 2009, 6, 411-414.	3.4	148
3	The topology of connections between rat prefrontal, motor and sensory cortices. Frontiers in Systems Neuroscience, 2014, 8, 177.	2.5	44
4	Structure-function clustering in multiplex brain networks. Europhysics Letters, 2016, 116, 18003.	2.0	38
5	Spreading dynamics on spatially constrained complex brain networks. Journal of the Royal Society Interface, 2013, 10, 20130016.	3.4	28
6	The role of node dynamics in shaping emergent functional connectivity patterns in the brain. Network Neuroscience, 2020, 4, 467-483.	2.6	25
7	Googling the Brain: Discovering Hierarchical and Asymmetric Network Structures, with Applications in Neuroscience. Internet Mathematics, 2011, 7, 233-254.	0.7	19
8	Complexity and robustness in hypernetwork models of metabolism. Journal of Theoretical Biology, 2016, 406, 99-104.	1.7	16
9	The topology of connections between rat prefrontal and temporal cortices. Frontiers in Systems Neuroscience, 2015, 9, 80.	2.5	14
10	A geometric network model of intrinsic grey-matter connectivity of the human brain. Scientific Reports, 2015, 5, 15397.	3.3	12
11	Mechanisms and Points of Control in the Spread of Inflammation: A Mathematical Investigation. Bulletin of Mathematical Biology, 2020, 82, 45.	1.9	11
12	Efficient Detection of Periodic Orbits in Chaotic Systems by Stabilizing Transformations. SIAM Journal of Scientific Computing, 2006, 28, 1275-1288.	2.8	10
13	Differences in anatomical connections across distinct areas in the rodent prefrontal cortex. European Journal of Neuroscience, 2017, 45, 859-873.	2.6	8
14	Network motif frequency vectors reveal evolving metabolic network organisation. Molecular BioSystems, 2015, 11, 77-85.	2.9	7
15	Spatial considerations in the resolution of inflammation: Elucidating leukocyte interactions via an experimentally-calibrated agent-based model. PLoS Computational Biology, 2020, 16, e1008413.	3.2	7
16	Predicting novel genomic regions linked to genetic disorders using GWAS and chromosome conformation data â€“ a case study of schizophrenia. Scientific Reports, 2019, 9, 17940.	3.3	6
17	Identification of novel genes associated with longevity in Drosophila melanogaster - a computational approach. Aging, 2019, 11, 11244-11267.	3.1	6
18	On the use of stabilizing transformations for detecting unstable periodic orbits in high-dimensional flows. Chaos, 2009, 19, 033138.	2.5	4

#	Article	IF	Citations
19	A numerical simulation of neural fields on curved geometries. Journal of Computational Neuroscience, 2018, 45, 133-145.	1.0	4
20	A statistical mechanics description of environmental variability in metabolic networks. Journal of Mathematical Chemistry, 2014, 52, 675-688.	1.5	2
21	Modelling the impact of structural directionality on connectome-based models of neural activity. Journal of Complex Networks, 2020, 8, .	1.8	2
22	Synchrony in directed connectomes. Europhysics Letters, 0, , .	2.0	1
23	Collocation Methods for Solving Two-Dimensional Neural Field Models on Complex Triangulated Domains. , 2017, , 169-178.		0