

# Jonathan Crofts

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Modelling the impact of structural directionality on connectome-based models of neural activity. <i>Journal of Complex Networks</i> , 2020, 8, .	1.8	2
2	The role of node dynamics in shaping emergent functional connectivity patterns in the brain. <i>Network Neuroscience</i> , 2020, 4, 467-483.	2.6	25
3	Mechanisms and Points of Control in the Spread of Inflammation: A Mathematical Investigation. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 45.	1.9	11
4	Spatial considerations in the resolution of inflammation: Elucidating leukocyte interactions via an experimentally-calibrated agent-based model. <i>PLoS Computational Biology</i> , 2020, 16, e1008413.	3.2	7
5	Predicting novel genomic regions linked to genetic disorders using GWAS and chromosome conformation data – a case study of schizophrenia. <i>Scientific Reports</i> , 2019, 9, 17940.	3.3	6
6	Identification of novel genes associated with longevity in <i>Drosophila melanogaster</i> - a computational approach. <i>Aging</i> , 2019, 11, 11244-11267.	3.1	6
7	A numerical simulation of neural fields on curved geometries. <i>Journal of Computational Neuroscience</i> , 2018, 45, 133-145.	1.0	4
8	Differences in anatomical connections across distinct areas in the rodent prefrontal cortex. <i>European Journal of Neuroscience</i> , 2017, 45, 859-873.	2.6	8
9	Collocation Methods for Solving Two-Dimensional Neural Field Models on Complex Triangulated Domains. , 2017, , 169-178.		0
10	Complexity and robustness in hypernetwork models of metabolism. <i>Journal of Theoretical Biology</i> , 2016, 406, 99-104.	1.7	16
11	Structure-function clustering in multiplex brain networks. <i>Europhysics Letters</i> , 2016, 116, 18003.	2.0	38
12	A geometric network model of intrinsic grey-matter connectivity of the human brain. <i>Scientific Reports</i> , 2015, 5, 15397.	3.3	12
13	The topology of connections between rat prefrontal and temporal cortices. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 80.	2.5	14
14	Network motif frequency vectors reveal evolving metabolic network organisation. <i>Molecular BioSystems</i> , 2015, 11, 77-85.	2.9	7
15	The topology of connections between rat prefrontal, motor and sensory cortices. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 177.	2.5	44
16	A statistical mechanics description of environmental variability in metabolic networks. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 675-688.	1.5	2
17	Spreading dynamics on spatially constrained complex brain networks. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130016.	3.4	28
18	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011, 54, 161-169.	4.2	204

#	ARTICLE	IF	CITATIONS
19	Googling the Brain: Discovering Hierarchical and Asymmetric Network Structures, with Applications in Neuroscience. <i>Internet Mathematics</i> , 2011, 7, 233-254.	0.7	19
20	On the use of stabilizing transformations for detecting unstable periodic orbits in high-dimensional flows. <i>Chaos</i> , 2009, 19, 033138.	2.5	4
21	A weighted communicability measure applied to complex brain networks. <i>Journal of the Royal Society Interface</i> , 2009, 6, 411-414.	3.4	148
22	Efficient Detection of Periodic Orbits in Chaotic Systems by Stabilizing Transformations. <i>SIAM Journal of Scientific Computing</i> , 2006, 28, 1275-1288.	2.8	10
23	Synchrony in directed connectomes. <i>Europhysics Letters</i> , 0, , .	2.0	1