Hywel Williams

List of Publications by Year
in descending order

38 papers	1,691 citations	471509 17 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	2041 citing authors

#	Article	IF	Citations
1	Network analysis reveals open forums and echo chambers in social media discussions of climate change. Global Environmental Change, 2015, 32, 126-138.	7.8	361
2	Dominant frames in legacy and socialÂmedia coverage of the IPCC Fifth AssessmentÂReport. Nature Climate Change, 2015, 5, 380-385.	18.8	169
3	Online misinformation about climate change. Wiley Interdisciplinary Reviews: Climate Change, 2020, 11, e665.	8.1	124
4	On the origin of planetary-scale tipping points. Trends in Ecology and Evolution, 2013, 28, 380-382.	8.7	95
5	Artificial selection of simulated microbial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8918-8923.	7.1	79
6	Coevolutionary diversification creates nested-modular structure in phageâ€"bacteria interaction networks. Interface Focus, 2013, 3, 20130033.	3.0	73
7	Social sensing of floods in the UK. PLoS ONE, 2018, 13, e0189327.	2.5	73
8	Student engagement and wellbeing over time at a higher education institution. PLoS ONE, 2019, 14, e0225770.	2.5	65
9	Homeostatic plasticity improves signal propagation in continuous-time recurrent neural networks. BioSystems, 2007, 87, 252-259.	2.0	64
10	Phage-induced diversification improves host evolvability. BMC Evolutionary Biology, 2013, 13, 17.	3.2	64
11	Selection for Gaia across Multiple Scales. Trends in Ecology and Evolution, 2018, 33, 633-645.	8.7	62
12	Virtual learning environment engagement and learning outcomes at a â€˜bricks-and-mortarâ€™ university. Computers and Education, 2018, 126, 129-142.	8.3	53
13	Environmental regulation in a network of simulated microbial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10432-10437.	7.1	51
14	Environmental selection and resource allocation determine spatial patterns in picophytoplankton cell size. Limnology and Oceanography, 2013, 58, 1008-1022.	3.1	48
15	Neoproterozoic â€˜snowball Earthâ€™ glaciations and the evolution of altruism. Geobiology, 2007, 5, 337-349.	2.4	29
16	The Flask model: emergence of nutrient-recycling microbial ecosystems and their disruption by environment-altering â€˜rebelâ€™ organisms. Oikos, 2007, 116, 1087-1105.	2.7	28
17	From FAIR data to fair data use: Methodological data fairness in health-related social media research. Big Data and Society, 2021, 8, 205395172110103.	4.5	21
18	Individual-based modelling of adaptation in marine microbial populations using genetically defined physiological parameters. Ecological Modelling, 2011, 222, 3823-3837.	2.5	20

#	Article	IF	Citations
19	Scaling laws in geo-located Twitter data. PLoS ONE, 2019, 14, e0218454.	2.5	20
20	Dynamic social media affiliations among UK politicians. Social Networks, 2018, 54, 132-144.	2.1	18
21	Evolutionary regime shifts in simulated ecosystems. Oikos, 2010, 119, 1887-1899.	2.7	17
22	Natural selection for costly nutrient recycling in simulated microbial metacommunities. Journal of Theoretical Biology, 2012, 312, 1-12.	1.7	17
23	Gaian bottlenecks and planetary habitability maintained by evolving model biospheres: the ExoGaia model. Monthly Notices of the Royal Astronomical Society, 2018, 477, 727-740.	4.4	17
24	Using social media to measure impacts of named storm events in the United Kingdom and Ireland. Meteorological Applications, 2020, 27, e1887.	2.1	14
25	Good and bad events: combining network-based event detection with sentiment analysis. Social Network Analysis and Mining, 2020, 10, 1.	2.8	13
26	A comparison of the US National Fire Danger Rating System (NFDRS) with recorded fire occurrence and final fire size. International Journal of Wildland Fire, 2018, 27, 99.	2.4	12
27	Communities of online news exposure during the UK General Election 2015. Online Social Networks and Media, 2019, 10-11, 18-30.	3.6	12
28	Social sensing of flood impacts in India: A case study of Kerala 2018. International Journal of Disaster Risk Reduction, 2022, 74, 102908.	3.9	11
29	@choo: Tracking Pollen and Hayfever in the UK Using Social Media. Sensors, 2018, 18, 4434.	3.8	10
30	Social Sensing of Heatwaves. Sensors, 2021, 21, 3717.	3.8	10
31	Alternative mechanisms for Gaia. Journal of Theoretical Biology, 2018, 457, 249-257.	1.7	8
32	The human geography of Twitter: Quantifying regional identity and inter-region communication in England and Wales. PLoS ONE, 2019, 14, e0214466.	2.5	8
33	Multiple states of environmental regulation in well-mixed model biospheres. Journal of Theoretical Biology, 2017, 414, 17-34.	1.7	7
34	Discussion of Climate Change on Reddit: Polarized Discourse or Deliberative Debate?. Environmental Communication, 2022, 16, 680-698.	2.5	6
35	Crowdâ€sourced observations for shortâ€range numerical weather prediction: Report from <scp>EWGLAM</scp>/<scp>SRNWP</scp> Meeting 2019. Atmospheric Science Letters, 2021, 22, e1031.	1.9	4
36	Do Health, Environmental and Ethical Concerns Affect Purchasing Behavior? A Meta-Analysis and Narrative Review. Social Sciences, 2021, 10, 413.	1.4	4

#	Article	IF	Citations
37	Is it correct to project and detect? How weighting unipartite projections influences community detection. Network Science, 2020, 8, S145-S163.	1.0	2
38	Network-Based Pooling for Topic Modeling on Microblog Content. Lecture Notes in Computer Science, 2019, , 80-87.	1.3	2