

Andrew M Hein

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,156
citations

430874

18
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1984
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and solutions for studying collective animal behaviour in the wild. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170005.	4.0	163
2	Energetic and biomechanical constraints on animal migration distance. <i>Ecology Letters</i> , 2012, 15, 104-110.	6.4	127
3	Social Information Links Individual Behavior to Population and Community Dynamics. <i>Trends in Ecology and Evolution</i> , 2018, 33, 535-548.	8.7	122
4	Nuclear DNA Content Varies with Cell Size across Human Cell Types. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a019091.	5.5	95
5	The evolution of distributed sensing and collective computation in animal populations. <i>ELife</i> , 2015, 4, e10955.	6.0	77
6	Sensing and decision-making in random search. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12070-12074.	7.1	56
7	Social interactions among grazing reef fish drive material flux in a coral reef ecosystem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4703-4708.	7.1	54
8	Conserved behavioral circuits govern high-speed decision-making in wild fish shoals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12224-12228.	7.1	52
9	Natural search algorithms as a bridge between organisms, evolution, and ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9413-9420.	7.1	44
10	An Algorithmic Approach to Natural Behavior. <i>Current Biology</i> , 2020, 30, R663-R675.	3.9	35
11	Larval dispersal drives trophic structure across Pacific coral reefs. <i>Nature Communications</i> , 2014, 5, 5575.	12.8	33
12	Neurally Encoding Time for Olfactory Navigation. <i>PLoS Computational Biology</i> , 2016, 12, e1004682.	3.2	33
13	Predators, prey, and transient states in the assembly of spatially structured communities. <i>Ecology</i> , 2011, 92, 549-555.	3.2	32
14	Information limitation and the dynamics of coupled ecological systems. <i>Nature Ecology and Evolution</i> , 2020, 4, 82-90.	7.8	31
15	Fast behavioral feedbacks make ecosystems sensitive to pace and not just magnitude of anthropogenic environmental change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25580-25589.	7.1	26
16	The dynamics of assembling food webs. <i>Ecology Letters</i> , 2014, 17, 606-613.	6.4	24
17	Physical limits on bacterial navigation in dynamic environments. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150844.	3.4	24
18	Smelling Time: A Neural Basis for Olfactory Scene Analysis. <i>Trends in Neurosciences</i> , 2016, 39, 649-655.	8.6	22

#	ARTICLE	IF	CITATIONS
19	Reverse-engineering ecological theory from data. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180422.	2.6	22
20	The rising cost of warming waters: effects of temperature on the cost of swimming in fishes. <i>Biology Letters</i> , 2012, 8, 266-269.	2.3	19
21	Sensory Information and Encounter Rates of Interacting Species. <i>PLoS Computational Biology</i> , 2013, 9, e1003178.	3.2	18
22	Cutting Through the Noise: Bacterial Chemotaxis in Marine Microenvironments. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	12
23	Disease and fire interact to influence transitions between savanna forest ecosystems over a multi-decadal experiment. <i>Ecology Letters</i> , 2021, 24, 1007-1017.	6.4	11
24	Merging computational fluid dynamics and machine learning to reveal animal migration strategies. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1186-1200.	5.2	10
25	Informational constraints on predator-prey interactions. <i>Oikos</i> , 2022, 2022, .	2.7	6
26	Ecological decision-making: From circuit elements to emerging principles. <i>Current Opinion in Neurobiology</i> , 2022, 74, 102551.	4.2	6