

Ashley J W Ward

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

6,740
citations

71061

41
h-index

71651

76
g-index

121
all docs

121
docs citations

121
times ranked

4844
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring the rules of interaction of shoaling fish. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18726-18731.	3.3	459
2	Quorum decision-making facilitates information transfer in fish shoals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6948-6953.	3.3	395
3	Fast and accurate decisions through collective vigilance in fish shoals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2312-2315.	3.3	302
4	Correlates of boldness in three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). Behavioral Ecology and Sociobiology, 2004, 55, 561-568.	0.6	294
5	Personality and social context. Biological Reviews, 2011, 86, 759-773.	4.7	292
6	Sociality: The Behaviour of Group-Living Animals. , 2016, , .		269
7	Assortative interactions and social networks in fish. Oecologia, 2005, 143, 211-219.	0.9	253
8	Intraspecific food competition in fishes. Fish and Fisheries, 2006, 7, 231-261.	2.7	243
9	Consensus Decision Making by Fish. Current Biology, 2008, 18, 1773-1777.	1.8	231
10	The effects of kin and familiarity on interactions between fish. Fish and Fisheries, 2003, 4, 348-358.	2.7	201
11	A novel method for investigating the collective behaviour of fish: introducing "Robofish"™. Behavioral Ecology and Sociobiology, 2010, 64, 1211-1218.	0.6	153
12	The role of individuality in collective group movement. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122564.	1.2	138
13	Thermal acclimation of interactions: differential responses to temperature change alter predator-prey relationship. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4058-4064.	1.2	130
14	Fish shoal composition: mechanisms and constraints. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 2011-2017.	1.2	106
15	The effects of habitat- and diet-based cues on association preferences in three-spined sticklebacks. Behavioral Ecology, 2004, 15, 925-929.	1.0	103
16	Schooling and learning: early social environment predicts social learning ability in the guppy, <i>Poecilia reticulata</i> . Animal Behaviour, 2008, 76, 923-929.	0.8	100
17	Mixed-species shoaling in fish: the sensory mechanisms and costs of shoal choice. Behavioral Ecology and Sociobiology, 2002, 52, 182-187.	0.6	99
18	Boldness is influenced by social context in threespine sticklebacks (<i>Gasterosteus aculeatus</i>). Behaviour, 2007, 144, 351-371.	0.4	98

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19	Initiation and spread of escape waves within animal groups. <i>Royal Society Open Science</i> , 2015, 2, 140355.	1.1	91
20	Association patterns and shoal fidelity in the three-spined stickleback. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2451-2455.	1.2	85
21	Foraging nine-spined sticklebacks prefer to rely on public information over simpler social cues. <i>Behavioral Ecology</i> , 2005, 16, 865-870.	1.0	84
22	Social recognition in sticklebacks: the role of direct experience and habitat cues. <i>Behavioral Ecology and Sociobiology</i> , 2005, 57, 575-583.	0.6	83
23	Boldness and Reproductive Fitness Correlates in the Eastern Mosquitofish, <i>Gambusia holbrooki</i> . <i>Ethology</i> , 2010, 116, 96-104.	0.5	83
24	The effects of external cues on individual and collective behavior of shoaling fish. <i>Science Advances</i> , 2017, 3, e1603201.	4.7	82
25	Scents and scents-ability: pollution disrupts chemical social recognition and shoaling in fish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 101-105.	1.2	81
26	Accurate decisions in an uncertain world: collective cognition increases true positives while decreasing false positives. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122777.	1.2	80
27	Body length assortative shoaling in the European minnow, <i>Phoxinus phoxinus</i> . <i>Animal Behaviour</i> , 2001, 62, 617-621.	0.8	77
28	Individual boldness affects interspecific interactions in sticklebacks. <i>Behavioral Ecology and Sociobiology</i> , 2009, 63, 511-520.	0.6	76
29	Multimodal mixed messages: the use of multiple cues allows greater accuracy in social recognition and predator detection decisions in the mosquitofish, <i>Gambusia holbrooki</i> . <i>Behavioral Ecology</i> , 2010, 21, 1315-1320.	1.0	74
30	Re-wilding Collective Behaviour: An Ecological Perspective. <i>Trends in Ecology and Evolution</i> , 2018, 33, 347-357.	4.2	73
31	Quorum Decision-Making in Foraging Fish Shoals. <i>PLoS ONE</i> , 2012, 7, e32411.	1.1	65
32	Social facilitation of exploration in mosquitofish (<i>Gambusia holbrooki</i>). <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 223-230.	0.6	62
33	Social recognition in wild fish populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1071-1077.	1.2	61
34	Increased aggression during pregnancy comes at a higher metabolic cost. <i>Journal of Experimental Biology</i> , 2013, 216, 771-776.	0.8	61
35	Capacity for thermal acclimation differs between populations and phylogenetic lineages within a species. <i>Functional Ecology</i> , 2012, 26, 1418-1428.	1.7	56
36	Consistency of Leadership in Shoals of Mosquitofish (<i>Gambusia holbrooki</i>) in Novel and in Familiar Environments. <i>PLoS ONE</i> , 2012, 7, e36567.	1.1	55

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37	Habitat-specific chemical cues influence association preferences and shoal cohesion in fish. <i>Behavioral Ecology and Sociobiology</i> , 2007, 62, 273-280.	0.6	51
38	Turbidity and foraging rate in threespine sticklebacks: the importance of visual and chemical prey cues. <i>Behaviour</i> , 2007, 144, 1347-1360.	0.4	49
39	Personality affects the foraging response of a mammalian herbivore to the dual costs of food and fear. <i>Oecologia</i> , 2015, 177, 293-303.	0.9	49
40	The effects of parasitism and body length on positioning within wild fish shoals. <i>Journal of Animal Ecology</i> , 2002, 71, 10-14.	1.3	48
41	Species and population differences in social recognition between fishes: a role for ecology?. <i>Behavioral Ecology</i> , 2009, 20, 511-516.	1.0	47
42	Shoaling behaviour of sticklebacks infected with the microsporidian parasite, <i>Glugea anomala</i> . <i>Environmental Biology of Fishes</i> , 2005, 72, 155-160.	0.4	44
43	Exercise changes behaviour. <i>Functional Ecology</i> , 2014, 28, 652-659.	1.7	44
44	Social Aggregation in the Pelagic Zone with Special Reference to Fish and Invertebrates. <i>Advances in Marine Biology</i> , 2011, 60, 161-227.	0.7	43
45	Quantifying the structure and dynamics of fish shoals under predation threat in three dimensions. <i>Behavioral Ecology</i> , 2020, 31, 311-321.	1.0	42
46	Cross-species familiarity in shoaling fishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1157-1161.	1.2	41
47	Foraging benefits of shoaling with familiars may be exploited by outsiders. <i>Animal Behaviour</i> , 2005, 69, 329-335.	0.8	41
48	Multi-scale Inference of Interaction Rules in Animal Groups Using Bayesian Model Selection. <i>PLoS Computational Biology</i> , 2013, 9, e1002961.	1.5	39
49	Cohesion, order and information flow in the collective motion of mixed-species shoals. <i>Royal Society Open Science</i> , 2018, 5, 181132.	1.1	39
50	The effect of hunger on the exploratory behaviour of shoals of mosquitofish <i>Gambusia holbrooki</i> . <i>Behaviour</i> , 2015, 152, 1659-1677.	0.4	38
51	Habitat-Specific Morphological Variation among Threespine Sticklebacks (<i>Gasterosteus aculeatus</i>) within a Drainage Basin. <i>PLoS ONE</i> , 2011, 6, e21060.	1.1	38
52	Behavioural thermoregulation in two freshwater fish species. <i>Journal of Fish Biology</i> , 2010, 76, 2287-2298.	0.7	35
53	The influence of differential swimming speeds on composition of multi-species fish shoals. <i>Journal of Fish Biology</i> , 2005, 67, 866-872.	0.7	34
54	Group structure in a restricted entry system is mediated by both resident and joiner preferences. <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1099-1106.	0.6	34

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55	The effects of the endocrine disrupter 4-nonylphenol on the behaviour of juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 377-382.	0.7	32
56	Social Organization, Grouping, and Domestication in Fish. <i>Zebrafish</i> , 2006, 3, 141-155.	0.5	32
57	Local interactions and global properties of wild, free-ranging stickleback shoals. <i>Royal Society Open Science</i> , 2017, 4, 170043.	1.1	30
58	Social Recognition and Social Attraction in Group-Living Fishes. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	30
59	Shoal and prey patch choice by co-occurring fishes and prawns: inter-taxa use of socially transmitted cues. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 203-208.	1.2	29
60	The influence of nutritional state on individual and group movement behaviour in shoals of crimson-spotted rainbowfish (<i>Melanotaenia duboulayi</i>). <i>Behavioral Ecology and Sociobiology</i> , 2015, 69, 1713-1722.	0.6	28
61	Body size affects the strength of social interactions and spatial organization of a schooling fish (<i>Pseudomugil signifer</i>). <i>Royal Society Open Science</i> , 2017, 4, 161056.	1.1	28
62	Learning to hunt: the role of experience in predator success. <i>Behaviour</i> , 2010, 147, 223-233.	0.4	27
63	Initiators, Leaders, and Recruitment Mechanisms in the Collective Movements of Damselfish. <i>American Naturalist</i> , 2013, 181, 748-760.	1.0	27
64	A model comparison reveals dynamic social information drives the movements of humbug damselfish (<i>Overlock 10</i>) <i>Tj ETQq0 0,0,rgBT /</i>	1.5	27
65	Speed-mediated properties of schooling. <i>Royal Society Open Science</i> , 2019, 6, 181482.	1.1	25
66	Aggression-induced fin damage modulates trade-offs in burst and endurance swimming performance of mosquitofish. <i>Journal of Zoology</i> , 2011, 283, 243-248.	0.8	22
67	Crimson Spotted Rainbowfish (<i>Melanotaenia duboulayi</i>) Change Their Spatial Position according to Nutritional Requirement. <i>PLoS ONE</i> , 2016, 11, e0148334.	1.1	22
68	Sensory ecology in a changing world: salinity alters conspecific recognition in an amphidromous fish, <i>Pseudomugil signifer</i> . <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1107-1115.	0.6	21
69	Familiarity affects collective motion in shoals of guppies (<i>Poecilia reticulata</i>). <i>Royal Society Open Science</i> , 2017, 4, 170312.	1.1	20
70	The Personality Behind Cheating: Behavioural Types and the Feeding Ecology of Cleaner Fish. <i>Ethology</i> , 2014, 120, 904-912.	0.5	18
71	The role of female dominance hierarchies in the mating behaviour of mosquitofish. <i>Biology Letters</i> , 2011, 7, 343-345.	1.0	16
72	Shoaling fish can size-assort by chemical cues alone. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 667-673.	0.6	16

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73	Collective decision making in guppies: a cross-population comparison study in the wild. <i>Behavioral Ecology</i> , 2017, 28, 919-924.	1.0	16
74	Morphological differences between habitats are associated with physiological and behavioural trade-offs in stickleback (<i>Gasterosteus aculeatus</i>). <i>Royal Society Open Science</i> , 2016, 3, 160316.	1.1	15
75	A statistical method for identifying different rules of interaction between individuals in moving animal groups. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200925.	1.5	15
76	Diets and decisions: the potential use of food protein cues in dietary, sexual and social decisions by mosquitofish. <i>Animal Behaviour</i> , 2011, 82, 783-790.	0.8	14
77	Conformity in the collective: differences in hunger affect individual and group behavior in a shoaling fish. <i>Behavioral Ecology</i> , 2019, 30, 968-974.	1.0	14
78	Environmental quality determines finder-joiner dynamics in socially foraging three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 889-899.	0.6	13
79	The physiology of leadership in fish shoals: leaders have lower maximal metabolic rates and lower aerobic scope. <i>Journal of Zoology</i> , 2018, 305, 73-81.	0.8	13
80	Assessment and assortment: how fishes use local and global cues to choose which school to go to. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S328-30.	1.2	12
81	The effect of temporally variable environmental stimuli and group size on emergence behavior. <i>Behavioral Ecology</i> , 2016, 27, 939-945.	1.0	12
82	Escape path complexity and its context dependency in Pacific blue-eyes (<i>Pseudomugil signifer</i>). <i>Journal of Experimental Biology</i> , 2017, 220, 2076-2081.	0.8	12
83	Sociality. , 2016, , 1-8.		11
84	Fine-scale behavioural adjustments of prey on a continuum of risk. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190448.	1.2	11
85	Site fidelity and localised homing behaviour in three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Behaviour</i> , 2013, 150, 1689-1708.	0.4	10
86	Multi-scale Inference of Interaction Rules in Animal Groups Using Bayesian Model Selection. <i>PLoS Computational Biology</i> , 2012, 8, e1002308.	1.5	10
87	Rising costs of care make spiny chromis discerning parents. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 449-455.	0.6	9
88	The effect of predation risk on group behaviour and information flow during repeated collective decisions. <i>Animal Behaviour</i> , 2021, 173, 215-239.	0.8	9
89	Copper interacts with nonylphenol to cancel the effect of nonylphenol on fish chemosensory behaviour. <i>Aquatic Toxicology</i> , 2013, 142-143, 203-209.	1.9	8
90	To clean or not to clean: Cleaning mutualism breakdown in a tidal environment. <i>Ecology and Evolution</i> , 2020, 10, 3043-3054.	0.8	8

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91	A grid-net technique for the analysis of fish positions within free-ranging shoals. <i>Journal of Fish Biology</i> , 2001, 59, 1667-1672.	0.7	7
92	The role of biotic and abiotic cues in stimulating aggregation by larval cane toads (<i>Rhinella</i>). <i>Overlock</i> , 2016, 10, 50-70.	0.5	7
93	Mid-sized groups perform best in a collective decision task in sticklebacks. <i>Biology Letters</i> , 2019, 15, 20190335.	1.0	7
94	Risk balancing through selective use of social and physical information: a case study in the humbug damselfish. <i>Journal of Zoology</i> , 2019, 308, 235-242.	0.8	7
95	Locomotion, interactions and information transfer vary according to context in a cryptic fish species. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1.	0.6	7
96	Social Foraging and Predator-Prey Interactions. , 2016, , 55-87.		7
97	Self-organization and information transfer in Antarctic krill swarms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212361.	1.2	7
98	Group foraging decisions in nutritionally differentiated environments. <i>Functional Ecology</i> , 2016, 30, 1638-1647.	1.7	5
99	Locomotion and habituation to novel experimental environments in a social fish species. <i>Behaviour</i> , 2020, 157, 1007-1023.	0.4	5
100	Mechanisms: Social Recognition and Social Organisation. , 2016, , 9-27.		4
101	Social rank and not physiological capacity determines competitive success in zebrafish (<i>Danio</i>). <i>Overlock</i> , 2016, 11, 43-54.	1.1	4
102	Fish Foraging Behaviour in Theory and Practice. , 2008, , 235-268.		4
103	Social context affects camouflage in a cryptic fish species. <i>Royal Society Open Science</i> , 2021, 8, 211125.	1.1	4
104	Distributions of Costs and Benefits Within Groups. , 2016, , 111-124.		3
105	Behavioural consistency and group conformity in humbug damselfish. <i>Behaviour</i> , 2017, 154, 1343-1359.	0.4	3
106	Group-Living and Social Networks. , 2008, , 485-498.		3
107	Behavioural interdependence in a shrimp-goby mutualism. <i>Journal of Zoology</i> , 2019, 308, 274-279.	0.8	2
108	Development, Ontogeny and Parasite-Mediated Changes in Social Behaviour. , 2016, , 175-190.		1

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109	Interactions between <i>Plagiotremus</i> spp., <i>Labroides dimidiatus</i> and their clients: evidence for behavioural niche partitioning. <i>Journal of Fish Biology</i> , 2017, 90, 424-434.	0.7	1
110	A grid-net technique for the analysis of fish positions within free-ranging shoals. <i>Journal of Fish Biology</i> , 2001, 59, 1667-1672.	0.7	1
111	How Do Fish Use the Movement of Other Fish to Make Decisions?. <i>Springer Proceedings in Complexity</i> , 2013, , 591-606.	0.2	1
112	Attraction, Alignment and Repulsion: How Groups Form and How They Function. , 2016, , 29-54.		1
113	The effects of habitat- and diet-based cues on association preferences in the three-spined stickleback (<i>Gasterosteus aculeatus</i>). <i>Journal of Fish Biology</i> , 2003, 63, 244-244.	0.7	0
114	Prawns and probability. , 2012, , .		0
115	Group Size. , 2016, , 125-148.		0