Culum Brown

List of Publications by Year
in descending order

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124 papers	7,139 citations	76326 40 h-index	69250 77 g-index
155 all docs	155 docs citations	155 times ranked	5039 citing authors

#	Article	IF	Citations
1	Social learning in fishes: a review. Fish and Fisheries, 2003, 4, 280-288.	5.3	437
2	The future of stock enhancements: lessons for hatchery practice from conservation biology. Fish and Fisheries, 2002, 3, 79-94.	5.3	355
3	Social learning and life skills training for hatchery reared fish. Journal of Fish Biology, 2001, 59, 471-493.	1.6	340
4	In situ examination of boldnessâ€“shyness traits in the tropical poeciliid, Brachyraphis episcopi. Animal Behaviour, 2005, 70, 1003-1009.	1.9	299
5	Size matters: a test of boldness in eight populations of the poeciliid Brachyraphis episcopi. Animal Behaviour, 2004, 68, 1325-1329.	1.9	280
6	Fish intelligence, sentience and ethics. Animal Cognition, 2015, 18, 1-17.	1.8	269
7	Familiarity facilitates social learning of foraging behaviour in the guppy. Animal Behaviour, 2001, 62, 591-598.	1.9	234
8	Heritable and experiential effects on boldness in a tropical poeciliid. Behavioral Ecology and Sociobiology, 2007, 62, 237-243.	1.4	215
9	Interactions between shoal size and conformity in guppy social foraging. Animal Behaviour, 2001, 62, 917-925.	1.9	183
10	Environmental enrichment and prior experience of live prey improve foraging behaviour in hatchery-reared Atlantic salmon. Journal of Fish Biology, 2003, 63, 187-196.	1.6	171
11	Laterality enhances cognition in Australian parrots. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4155-4162.	2.6	165
12	Correlation between boldness and body mass in natural populations of the poeciliid Brachyrhaphis episcopi. Journal of Fish Biology, 2007, 71, 1590-1601.	1.6	137
13	Personality traits predict hierarchy rank in male rainbowfish social groups. Animal Behaviour, 2011, 81, 1231-1237.	1.9	135
14	Effects of predation pressure on the cognitive ability of the poeciliid Brachyraphis episcopi. Behavioral Ecology, 2005, 16, 482-487.	2.2	131
15	Personality affects learning and trade-offs between private and social information in guppies, Poecilia reticulata. Animal Behaviour, 2014, 88, 99-106.	1.9	122
16	Differential stress responses in fish from areas of high- and low-predation pressure. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 305-312.	1.5	113
17	Trophic transfer of microplastics does not affect fish personality. Animal Behaviour, 2017, 123, 159-167.	1.9	110
18	Population variation in lateralized eye use in the poeciliid Brachyraphis episcopi. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S455-7.	2.6	93

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19	It pays to cheat: tactical deception in a cephalopod social signalling system. Biology Letters, 2012, 8, 729-732.	2.3	91
20	The influence of early experience on, and inheritance of, cerebral lateralization. Animal Behaviour, 2007, 74, 231-238.	1.9	90
21	Familiarity with the test environment improves escape responses in the crimson spotted rainbowfish, Melanotaenia duboulayi. Animal Cognition, 2001, 4, 109-113.	1.8	89
22	Fish cognition. Current Biology, 2014, 24, R947-R950.	3.9	87
23	Learning in fishes: from three-second memory to culture. Fish and Fisheries, 2003, 4, 199-202.	5.3	84
24	Microplastics on beaches: ingestion and behavioural consequences for beachhoppers. Marine Biology, 2016, 163, 1.	1.5	82
25	Predator recognition and anti-predator responses in the rainbowfish Melanotaenia eachamensis. Behavioral Ecology and Sociobiology, 1997, 41, 61-68.	1.4	81
26	Reproductive isolation in a threespine stickleback hybrid zone. Journal of Evolutionary Biology, 2006, 19, 1531-1544.	1.7	76
27	Social learning of a novel avoidance task in the guppy: conformity and social release. Animal Behaviour, 2002, 64, 41-47.	1.9	70
28	The evolution of lateralized foot use in parrots: a phylogenetic approach. Behavioral Ecology, 2011, 22, 1201-1208.	2.2	65
29	Site fidelity and homing behaviour in intertidal fishes. Marine Biology, 2013, 160, 1365-1372.	1.5	61
30	Examining the link between personality and laterality in a feral guppy Poecilia reticulata population. Journal of Fish Biology, 2013, 83, 311-325.	1.6	60
31	Tool use in fishes. Fish and Fisheries, 2012, 13, 105-115.	5.3	56
32	Complex patterns of male alliance formation in a dolphin social network. Journal of Mammalogy, 2012, 93, 239-250.	1.3	55
33	Social learning in juvenile lemon sharks, Negaprion brevirostris. Animal Cognition, 2013, 16, 55-64.	1.8	54
34	Differences in Timidity and Escape Responses between Predator-naive and Predator-sympatric Rainbowfish Populations. Ethology, 1999, 105, 491-502.	1.1	53
35	Cerebral lateralization determines hand preferences in Australian parrots. Biology Letters, 2011, 7, 496-498.	2.3	53
36	Social Mechanisms Enhance Escape Responses in Shoals of Rainbowfish, Melanotaenia duboulayi. Environmental Biology of Fishes, 1999, 56, 455-459.	1.0	52

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37	Laterality enhances numerical skills in the guppy, Poecilia reticulata. Frontiers in Behavioral Neuroscience, 2015, 9, 285.	2.0	52
38	Learning and robustness to catch-and-release fishing in a shark social network. Biology Letters, 2017, 13, 20160824.	2.3	51
39	Social learning of prey location in hatchery-reared Atlantic salmon. Journal of Fish Biology, 2003, 63, 738-745.	1.6	46
40	Long-term migration patterns and bisexual philopatry in a benthic shark species. Marine and Freshwater Research, 2017, 68, 1414.	1.3	46
41	Laterality influences cognitive performance in rainbowfish Melanotaenia duboulayi. Animal Cognition, 2014, 17, 1045-1051.	1.8	45
42	Learning and memory in the Port Jackson shark, Heterodontus portusjacksoni. Animal Cognition, 2014, 17, 415-425.	1.8	42
43	Social preferences and network structure in a population of reef manta rays. Behavioral Ecology and Sociobiology, 2019, 73, 1.	1.4	42
44	Big trouble for little fish: identifying Australian freshwater fishes in imminent risk of extinction. Pacific Conservation Biology, 2020, 26, 365.	1.0	42
45	Blood cortisol concentrations predict boldness in juvenile mulloway (Argyosomus japonicus). Journal of Ethology, 2012, 30, 225-232.	0.8	41
46	Tool use in the tuskfish Choerodon schoenleinii?. Coral Reefs, 2011, 30, 865-865.	2.2	40
47	Contemporary topics in fish cognition and behaviour. Current Opinion in Behavioral Sciences, 2017, 16, 46-52.	3.9	40
48	Microhabitat Use Affects Brain Size and Structure in Intertidal Gobies. Brain, Behavior and Evolution, 2015, 85, 107-116.	1.7	36
49	Laterality strength is linked to stress reactivity in Port Jackson sharks (Heterodontus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2	2.2	36
50	Predator Recognition in Rainbowfish, Melanotaenia duboulayi, Embryos. PLoS ONE, 2013, 8, e76061.	2.5	34
51	A comparison of spatial learning and memory capabilities in intertidal gobies. Behavioral Ecology and Sociobiology, 2014, 68, 1393-1401.	1.4	34
52	Understanding fish cognition: a review and appraisal of current practices. Animal Cognition, 2021, 24, 395-406.	1.8	33
53	Behavioural interactions between the introduced plague minnow Gambusia holbrooki and the vulnerable native Australian ornate rainbowfish Rhadinocentrus ornatus, under experimental conditions. Journal of Fish Biology, 2008, 73, 1714-1729.	1.6	32
54	Do female rainbowfish (Melanotaenia spp.) prefer to shoal with familiar individuals under predation pressure?. Journal of Ethology, 2002, 20, 89-94.	0.8	31

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55	Cue choice and spatial learning ability are affected by habitat complexity in intertidal gobies. Behavioral Ecology, 2015, 26, 178-184.	2.2	31
56	Influence of rockâ€pool characteristics on the distribution and abundance of interâ€tidal fishes. Marine Ecology, 2015, 36, 1332-1344.	1.1	31
57	Environmental enrichment influences spatial learning ability in captive-reared intertidal gobies (Bathygobius cocosensis). Animal Cognition, 2019, 22, 89-98.	1.8	31
58	Laterality Influences Schooling Position in Rainbowfish, Melanotaenia spp. PLoS ONE, 2013, 8, e80907.	2.5	30
59	Does detection range matter for inferring social networks in a benthic shark using acoustic telemetry?. Royal Society Open Science, 2017, 4, 170485.	2.4	29
60	Habitat-predator association and avoidance in rainbowfish (Melanotaenia spp.). Ecology of Freshwater Fish, 2003, 12, 118-126.	1.4	28
61	Variation in Brain Morphology of Intertidal Gobies: A Comparison of Methodologies Used to Quantitatively Assess Brain Volumes in Fish. Brain, Behavior and Evolution, 2015, 85, 245-256.	1.7	28
62	Experience and learning in changing environments. , 2012, , 46-60.		28
63	Laterality is linked to personality in the black-lined rainbowfish, Melanotaenia nigrans. Behavioral Ecology and Sociobiology, 2014, 68, 999-1005.	1.4	25
64	Social learning in solitary juvenile sharks. Animal Behaviour, 2020, 159, 21-27.	1.9	24
65	Behavioural lateralization in a detour test is not repeatable in fishes. Animal Behaviour, 2020, 167, 55-64.	1.9	24
66	cerebral lateralisation, â€œsocial constraints,â€•and coordinated anti-predator responses. Behavioral and Brain Sciences, 2005, 28, 591-592.	0.7	23
67	Loss of shoaling preference for familiar individuals in captiveâ€reared crimson spotted rainbowfish Melanotaenia duboulayi. Journal of Fish Biology, 2009, 74, 2187-2195.	1.6	21
68	A non-invasive assay for monitoring stress responses: A comparison between wild and captive-reared rainbowfish (Melanoteania duboulayi). Aquaculture, 2011, 321, 267-272.	3.5	21
69	Evolutionary Responses to Invasion: Cane Toad Sympatric Fish Show Enhanced Avoidance Learning. PLoS ONE, 2013, 8, e54909.	2.5	21
70	Effects of acclimatisation on behavioural repeatability in two behaviour assays of the guppy Poecilia reticulata. Behavioral Ecology and Sociobiology, 2018, 72, 1.	1.4	20
71	Incubation under Climate Warming Affects Behavioral Lateralisation in Port Jackson Sharks. Symmetry, 2018, 10, 184.	2.2	20
72	Quantity discrimination in Port Jackson sharks incubated under elevated temperatures. Behavioral Ecology and Sociobiology, 2019, 73, 1.	1.4	20

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73	Population variation in the thermal response to climate change reveals differing sensitivity in a benthic shark. Global Change Biology, 2021, 27, 108-120.	9.5	20
74	Acoustic accelerometry reveals diel activity patterns in premigratory Port Jackson sharks. Ecology and Evolution, 2019, 9, 8933-8944.	1.9	19
75	Sublethal toxicity of untreated and treated stormwater Zn concentrations on the foraging behaviour of Paratya australiensis (Decapoda: Atyidae). Ecotoxicology, 2014, 23, 1022-1029.	2.4	18
76	Laterality and fish welfare - A review. Applied Animal Behaviour Science, 2021, 236, 105239.	1.9	18
77	Population genetic analyses reveal female reproductive philopatry in the oviparous Port Jackson shark. Marine and Freshwater Research, 2019, 70, 986.	1.3	17
78	Learned recognition and avoidance of invasive mosquitofish by the shrimp, Paratya australiensis. Marine and Freshwater Research, 2011, 62, 1230.	1.3	17
79	Into the wild: developing field tests to examine the link between elasmobranch personality and laterality. Behaviour, 2016, 153, 1777-1793.	0.8	16
80	Male Siamese fighting fish use gill flaring as the first display towards territorial intruders. Journal of Ethology, 2017, 35, 51-59.	0.8	16
81	Short-term impacts of daily feeding on the residency, distribution and energy expenditure of sharks. Animal Behaviour, 2021, 172, 55-71.	1.9	16
82	Food approach conditioning and discrimination learning using sound cues in benthic sharks. Animal Cognition, 2018, 21, 481-492.	1.8	15
83	Individual differences in numerical skills are influenced by brain lateralization in guppies (Poecilia) Tj ETQq1 1 0.784314 rgBT /Overloc	3.0	15
84	The Effect of Sex and Early Environment on the Lateralization of the Rainbowfish Melanotaenia duboulayi. , 2013, , 9-24.		15
85	Pain and Emotion in Fishes â€“ Fish Welfare Implications for Fisheries and Aquaculture. Animal Studies Journal, 2019, 8, 175-201.	0.2	15
86	Microhabitat use affects goby (Gobiidae) cue choice in spatial learning task. Journal of Fish Biology, 2015, 86, 1305-1318.	1.6	14
87	Stress profile influences learning approach in a marine fish. PeerJ, 2017, 5, e3445.	2.0	14
88	Prozac impacts lateralization of aggression in male Siamese fighting fish. Ecotoxicology and Environmental Safety, 2017, 140, 84-88.	6.0	13
89	The toxicological effect of Ruta graveolens extract in Siamese fighting fish: a behavioral and histopathological approach. Ecotoxicology, 2016, 25, 824-834.	2.4	12
90	Assessment of Machine Learning Models to Identify Port Jackson Shark Behaviours Using Tri-Axial Accelerometers. Sensors, 2020, 20, 7096.	3.8	11

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91	Seasonal variation of sexually dimorphic spatial learning implicates mating system in the intertidal Cocos Frillgoby (Bathygobius cocosensis). Animal Cognition, 2020, 23, 621-628.	1.8	11
92	Superglue is Not Super: An Assessment of Superglue for Suturing Tag Incisions in a Cultured Marine Fish. Journal of the World Aquaculture Society, 2012, 43, 140-143.	2.4	9
93	Heterarchy Reveals Social Organization of a Smooth Stingray (Bathytoshia brevicaudata) Population in a Provisioned Food Context. Frontiers in Marine Science, 2021, 8, .	2.5	9
94	Microclimate preferences of the grey-headed flying fox (Pteropus poliocephalus) in the Sydney region. Australian Journal of Zoology, 2010, 58, 376.	1.0	8
95	Seasonal and developmental diet shifts in sympatric and allopatric intertidal gobies determined by stomach content and stable isotope analysis. Journal of Fish Biology, 2020, 97, 1051-1062.	1.6	8
96	Intraspecific variation in diel patterns of rocky reef use suggests temporal partitioning in Port Jackson sharks. Marine and Freshwater Research, 2021, 72, 1445-1456.	1.3	8
97	Mental Capacities of Fishes. Advances in Neuroethics, 2020, , 53-71.	0.3	8
98	Distribution and habitats of mosquito larvae in the Kingdom of Tonga. Australian Journal of Entomology, 2007, 46, 332-338.	1.1	7
99	Non-invasive genetic sampling of faecal material and hair from the grey-headed flying-fox (Pteropus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	7
100	Nursing females are more prone to heat stress: Demography matters when managing flying-foxes for climate change. Applied Animal Behaviour Science, 2012, 142, 90-97.	1.9	6
101	Predator recognition and responses in the endangered Macquarie perch (Macquaria australasica). Marine and Freshwater Research, 2015, 66, 127.	1.3	6
102	Effects of reward magnitude and training frequency on the learning rates and memory retention of the Port Jackson shark Heterodontus portusjacksoni. Animal Cognition, 2020, 23, 939-949.	1.8	6
103	Residency and movement patterns of adult <scp>Port Jackson</scp> sharks (<scp><i>Heterodontus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	6
104	Friend or foe? Development of odour detection, differentiation and antipredator response in an embryonic elasmobranch. Marine and Freshwater Research, 2021, , .	1.3	6
105	A large-scale automated radio telemetry network for monitoring movements of terrestrial wildlife in Australia. Australian Zoologist, 2020, 40, 379-391.	1.1	6
106	Reef manta ray social dynamics depend on individual differences in behaviour. Animal Behaviour, 2022, 191, 43-55.	1.9	6
107	Hatching success of rainbowfish eggs following exposure to air. Australian Journal of Zoology, 2013, 61, 395.	1.0	4
108	Male brush-turkeys attempt sexual coercion in unusual circumstances. Behavioural Processes, 2014, 106, 180-186.	1.1	4

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109	Lack of social preference between unfamiliar and familiar juvenile Port Jackson sharks <scp>Heterodontus portusjacksoni</scp>. Journal of Fish Biology, 2019, 95, 520-526.	1.6	4
110	Barriers to hybridisation and their conservation implications for a highly threatened Australian fish species. Ethology, 2019, 125, 142-152.	1.1	4
111	Reef manta ray cephalic lobe movements are modulated during social interactions. Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	4
112	Impact of conspecific necromones on the oxygen uptake rates of a benthic elasmobranch. Animal Behaviour, 2021, 174, 1-8.	1.9	4
113	Detecting behavioural lateralisation in Poecilia reticulata is strongly dependent on experimental design. Behavioral Ecology and Sociobiology, 2022, 76, 1.	1.4	4
114	Fish â€“ How to Ask Them the Right Questions. , 0, , 199-221.		3
115	Identification of the rainbowfish in Lake Eacham using DNA sequencing. Australian Journal of Zoology, 2012, 60, 334.	1.0	3
116	Behavioral and immunotoxic effects of PrografÂ® (tacrolimus) in the male Siamese fighting fish. Ecotoxicology, 2019, 28, 1032-1037.	2.4	2
117	Impact of 17Î±-Ethynylestradiol Increase on Post-Spawning Mortality in the Female Siamese Fighting Fish. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	2
118	Preliminary observations on the movement ecology of a crested horn shark (Heterodontus galeatus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	2
119	Social enhancement and social inhibition of foraging behaviour in hatchery-reared Atlantic salmon. Journal of Fish Biology, 2002, 61, 987-998.	1.6	2
120	Shark habituation to a food-related olfactory cue. Animal Behaviour, 2022, 187, 147-165.	1.9	2
121	Fitness Costs of Sexual Harassmentâ€“The Price of Persuasion. Ethology, 2017, 123, 242-250.	1.1	1
122	Social Learning: Parents May Not Always Know Best. Current Biology, 2015, 25, R802-R804.	3.9	0
123	A Fish Memory Tale. , 2021, , 140-173.		0
124	Small-scale movement and migration cues of Australian bass (Percalates novemaculeata) in an urbanised river. Marine and Freshwater Research, 2022, , .	1.3	0