

# Robert William Elwood

## List of Publications by Year in descending order

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93  
papers

5,228  
citations

71102

41  
h-index

91884

69  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of fighting ability in animal contests. <i>Animal Behaviour</i> , 2009, 77, 991-1004.	1.9	574
2	Defining and assessing animal pain. <i>Animal Behaviour</i> , 2014, 97, 201-212.	1.9	304
3	Information gathering and decision making about resource value in animal contests. <i>Animal Behaviour</i> , 2008, 76, 529-542.	1.9	274
4	Use of energy reserves in fighting hermit crabs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 373-379.	2.6	140
5	Shell Wars: Assessment Strategies and the Timing of Decisions in Hermit Crab Shell Fights. <i>Behaviour</i> , 1983, 85, 1-24.	0.8	126
6	Pain and Suffering in Invertebrates?. <i>ILAR Journal</i> , 2011, 52, 175-184.	1.8	125
7	Pain and stress in crustaceans?. <i>Applied Animal Behaviour Science</i> , 2009, 118, 128-136.	1.9	115
8	Pain experience in hermit crabs?. <i>Animal Behaviour</i> , 2009, 77, 1243-1246.	1.9	110
9	Decision rules, energy metabolism and vigour of hermit crab fights. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1841-1848.	2.6	109
10	Imperfect assessment and limited information preclude optimal strategies in male-male fights in the orb-weaving spider <i>Metellina mengei</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 273-279.	2.6	99
11	Nociception or pain in a decapod crustacean?. <i>Animal Behaviour</i> , 2008, 75, 745-751.	1.9	99
12	Difficulties remain in distinguishing between mutual and self-assessment in animal contests. <i>Animal Behaviour</i> , 2009, 77, 759-762.	1.9	98
13	Understanding how animals fight with Lloyd Morgan's canon. <i>Animal Behaviour</i> , 2012, 84, 1095-1102.	1.9	98
14	Self-assessment by males during energetically costly contests over precopula females in amphipods. <i>Animal Behaviour</i> , 2006, 72, 861-868.	1.9	96
15	Current Problems in the Study of Infanticidal Behavior of Rodents. <i>Quarterly Review of Biology</i> , 1985, 60, 1-20.	0.1	91
16	Shock avoidance by discrimination learning in the shore crab ( <i>Carcinus maenas</i> ) is consistent with a key criterion for pain. <i>Journal of Experimental Biology</i> , 2013, 216, 353-358.	1.7	83
17	Power of shell-rapping signals influences physiological costs and subsequent decisions during hermit crab fights. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2331-2336.	2.6	79
18	Ethical implications of studies on infanticide and maternal aggression in rodents. <i>Animal Behaviour</i> , 1991, 42, 841-849.	1.9	78

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19	No association between sexual size dimorphism and life histories in spiders. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 57-62.	2.6	77
20	Motivational trade-offs and potential pain experience in hermit crabs. <i>Applied Animal Behaviour Science</i> , 2009, 119, 120-124.	1.9	72
21	The development of shell preferences by the hermit crab <i>Pagurus bernhardus</i> . <i>Animal Behaviour</i> , 1979, 27, 940-946.	1.9	71
22	Fighting for shells: how private information about resource value changes hermit crab pre-fight displays and escalated fight behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 3011-3017.	2.6	70
23	Pup recognition in <i>Mus musculus</i> : Parental discrimination between their own and alien young. <i>Developmental Psychobiology</i> , 1983, 16, 75-82.	1.6	69
24	Symmetrical assessment of female quality by male <i>Gammarus pulex</i> (Amphipoda) during struggles over precopula females. <i>Animal Behaviour</i> , 1990, 40, 877-883.	1.9	69
25	Rapid change in energy status in fighting animals: causes and effects of strategic decisions. <i>Animal Behaviour</i> , 2005, 70, 119-124.	1.9	68
26	SEXUAL SIZE DIMORPHISM AND REPRODUCTIVE INVESTMENT BY FEMALE SPIDERS: A COMPARATIVE ANALYSIS. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1987-1994.	2.3	66
27	Inhibition of infanticide and onset of paternal care in male mice ( <i>Mus musculus</i> ).. <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 1985, 99, 457-467.	0.5	64
28	Physiological stress responses in the edible crab, <i>Cancer pagurus</i> , to the fishery practice of de-clawing. <i>Marine Biology</i> , 2007, 152, 265-272.	1.5	61
29	Shell wars II: the influence of relative size on decisions made during hermit crab shell fights. <i>Animal Behaviour</i> , 1985, 33, 649-656.	1.9	60
30	Assessments and Decisions During Mate Choice in <i>Gammarus Pulex</i> (Amphipoda). <i>Behaviour</i> , 1989, 109, 235-245.	0.8	60
31	Motivational change during resource assessment by hermit crabs. <i>Journal of Experimental Marine Biology and Ecology</i> , 1995, 193, 41-55.	1.5	59
32	The power of shell rapping influences rates of eviction in hermit crabs. <i>Behavioral Ecology</i> , 2000, 11, 288-293.	2.2	59
33	The welfare and ethics of research involving wild animals: A primer. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1164-1181.	5.2	58
34	Does copulation inhibit infanticide in male rodents?. <i>Animal Behaviour</i> , 1984, 32, 293-294.	1.9	57
35	The timing of decisions during shell investigation by the hermit crab, <i>Pagurus bernhardus</i> . <i>Animal Behaviour</i> , 1985, 33, 620-627.	1.9	56
36	Effects of the acanthocephalan parasite <i>Echinorhynchus truttae</i> on the feeding ecology of <i>Gammarus pulex</i> (Crustacea: Amphipoda). <i>Journal of Zoology</i> , 2003, 261, 321-325.	1.7	54

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37	Honest and dishonest displays, motivational state and subsequent decisions in hermit crab shell fights. <i>Animal Behaviour</i> , 2006, 72, 853-859.	1.9	53
38	Large body size for winning and large swords for winning quickly in swordtail males, <i>Xiphophorus helleri</i> . <i>Animal Behaviour</i> , 2008, 75, 1981-1987.	1.9	52
39	Cumulative or sequential assessment during hermit crab shell fights: effects of oxygen on decision rules. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 2445-2452.	2.6	51
40	Intraguild predation may explain an amphipod replacement: evidence from laboratory populations. <i>Journal of Zoology</i> , 1999, 249, 463-468.	1.7	47
41	Analysis of the finescale timing of repeated signals: does shell rapping in hermit crabs signal stamina?. <i>Animal Behaviour</i> , 2000, 59, 159-165.	1.9	45
42	Do mirrors reflect reality in agonistic encounters? A test of mutual cooperation in displays. <i>Animal Behaviour</i> , 2014, 97, 63-67.	1.9	43
43	Gender differences, responsiveness and memory of a potentially painful event in hermit crabs. <i>Animal Behaviour</i> , 2009, 78, 1373-1379.	1.9	42
44	Memory of information gained during shell investigation by the hermit crab, <i>Pagurus bernhardus</i> . <i>Animal Behaviour</i> , 1989, 37, 529-534.	1.9	41
45	Temporal-based kinship recognition: A switch in time saves mine. <i>Behavioural Processes</i> , 1994, 33, 15-24.	1.1	38
46	Helpers(?) At the Nest in the Mongolian Gerbil, <i>Meriones Unguiculatus</i> . <i>Behaviour</i> , 1984, 91, 61-76.	0.8	37
47	Sexual dimorphism in amphipods: the role of male posterior gnathopods revealed in <i>Gammarus pulex</i> . <i>Behavioral Ecology and Sociobiology</i> , 2005, 58, 264-269.	1.4	37
48	Electric shock causes physiological stress responses in shore crabs, consistent with prediction of pain. <i>Biology Letters</i> , 2015, 11, 20150800.	2.3	36
49	Strain differences in the inhibition of infanticide in male mice ( <i>Mus musculus</i> ). <i>Behavioral and Neural Biology</i> , 1988, 50, 349-353.	2.2	35
50	Selectivity in paternal and infanticidal responses by male mice: Effects of relatedness, location, and previous sexual partners. <i>Behavioral and Neural Biology</i> , 1991, 56, 129-147.	2.2	35
51	How animals make assessments: information gathering by the hermit crab <i>Pagurus bernhardus</i> . <i>Animal Behaviour</i> , 1989, 38, 951-957.	1.9	34
52	No evidence of morphine analgesia to noxious shock in the shore crab, <i>Carcinus maenas</i> . <i>Behavioural Processes</i> , 2011, 86, 340-344.	1.1	34
53	Behavioural modifications during egg-brooding in the hermit crab, <i>Pagurus bernhardus</i> L.. <i>Journal of Experimental Marine Biology and Ecology</i> , 1985, 94, 99-114.	1.5	33
54	Claw removal and feeding ability in the edible crab, <i>Cancer pagurus</i> : Implications for fishery practice. <i>Applied Animal Behaviour Science</i> , 2009, 116, 302-305.	1.9	33

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55	Metabolic consequences of shell choice in <i>Pagurus bernhardus</i> : do hermit crabs prefer cryptic or portable shells?. <i>Behavioral Ecology and Sociobiology</i> , 2005, 59, 143-148.	1.4	32
56	Discrimination between nociceptive reflexes and more complex responses consistent with pain in crustaceans. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190368.	4.0	32
57	Signal residuals and hermit crab displays: flaunt it if you have it!. <i>Animal Behaviour</i> , 2010, 79, 137-143.	1.9	31
58	Assessments in contests are frequently assumed to be complex when simple explanations will suffice. <i>Animal Behaviour</i> , 2013, 86, e8-e12.	1.9	30
59	Ultrasounds and maternal behavior in the Mongolian gerbil. <i>Developmental Psychobiology</i> , 1979, 12, 281-284.	1.6	29
60	To breathe or fight? Siamese fighting fish differ when facing a real opponent or mirror image. <i>Behavioural Processes</i> , 2016, 129, 11-17.	1.1	29
61	Interrupting an assessment process to probe changes in the motivational state. <i>Animal Behaviour</i> , 1990, 39, 1068-1077.	1.9	26
62	The effects of food deprivation, aggression, and isolation on infanticide in the male Mongolian gerbil. <i>Aggressive Behavior</i> , 1984, 10, 293-301.	2.4	25
63	The couvade and the onset of paternal care: A biological perspective. <i>Ethology and Sociobiology</i> , 1994, 15, 145-156.	1.5	25
64	Factors Influencing Shell Investigation in the Hermit Crab, <i>Pagurus bernhardus</i> . <i>Ethology</i> , 1986, 73, 225-234.	1.1	24
65	Personality effects on spatial learning: Comparisons between visual conditions in a weakly electric fish. <i>Ethology</i> , 2017, 123, 551-559.	1.1	24
66	Assessing the Potential for Pain in Crustaceans and Other Invertebrates. <i>Animal Welfare</i> , 2019, , 147-177.	1.0	24
67	Humane Slaughter of Edible Decapod Crustaceans. <i>Animals</i> , 2021, 11, 1089.	2.3	24
68	The relationship between infanticide and pregnancy block in mice. <i>Behavioral and Neural Biology</i> , 1990, 53, 277-283.	2.2	21
69	Hermit crabs perceive the extent of their virtual bodies. <i>Biology Letters</i> , 2012, 8, 495-497.	2.3	21
70	Trade-offs between predator avoidance and electric shock avoidance in hermit crabs demonstrate a non-reflexive response to noxious stimuli consistent with prediction of pain. <i>Behavioural Processes</i> , 2016, 130, 31-35.	1.1	21
71	Plasticity varies with boldness in a weakly-electric fish. <i>Frontiers in Zoology</i> , 2016, 13, 22.	2.0	19
72	Aversive responses by shore crabs to acetic acid but not to capsaicin. <i>Behavioural Processes</i> , 2017, 140, 1-5.	1.1	19

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73	Vocal rate as an assessment process during fallow deer contests. <i>Behavioural Processes</i> , 2012, 91, 152-158.	1.1	18
74	Responses of infant mice to odors of urine from infanticidal, noninfanticidal, and paternal male mice. <i>Developmental Psychobiology</i> , 1990, 23, 309-317.	1.6	17
75	Postparturitional reestablishment of pup cannibalism in female gerbils. <i>Developmental Psychobiology</i> , 1981, 14, 209-212.	1.6	16
76	Grouping promotes risk-taking in unfamiliar settings. <i>Behavioural Processes</i> , 2018, 148, 41-45.	1.1	15
77	Why Protect Decapod Crustaceans Used as Models in Biomedical Research and in Ecotoxicology? Ethical and Legislative Considerations. <i>Animals</i> , 2021, 11, 73.	2.3	14
78	Effects of Autotomy Compared to Manual Declawing on Contests between Males for Females in the Edible Crab <i>Cancer pagurus</i> : Implications for Fishery Practice and Animal Welfare. <i>Journal of Shellfish Research</i> , 2016, 35, 1037-1044.	0.9	13
79	Aggression in spiders. , 2013, , 113-133.		12
80	Flipping the parental switch: from killing to caring in male mammals. <i>Animal Behaviour</i> , 2020, 165, 133-142.	1.9	10
81	Potential Pain in Fish and Decapods: Similar Experimental Approaches and Similar Results. <i>Frontiers in Veterinary Science</i> , 2021, 8, 631151.	2.2	10
82	Hermit crabs, shells, and sentience. <i>Animal Cognition</i> , 2022, , 1.	1.8	10
83	Ethical recommendations for workers on aggression and predation in animals. <i>Aggressive Behavior</i> , 1992, 18, 139-142.	2.4	9
84	The behavioural basis of a species replacement: differential aggression and predation between the introduced <i>Gammarus pulex</i> and the native <i>G. duebeni celticus</i> (Amphipoda). <i>Behavioral Ecology and Sociobiology</i> , 1995, 37, 393-398.	1.4	9
85	Discrimination between conspecific and allospecific infants by male gerbils and mice before and after experience of their own young. <i>Developmental Psychobiology</i> , 1986, 19, 327-334.	1.6	8
86	No discrimination shock avoidance with sequential presentation of stimuli but shore crabs still reduce shock exposure. <i>Biology Open</i> , 2016, 5, 883-888.	1.2	8
87	Stress was never said to be pain: response to Stevens et al. (2016). <i>Biology Letters</i> , 2016, 12, 20160126.	2.3	7
88	Fish learn collectively, but groups with differing personalities are slower to decide and more likely to split. <i>Biology Open</i> , 2018, 7, .	1.2	6
89	Hunger and the vocalizations of infant gerbils. <i>Developmental Psychobiology</i> , 1984, 17, 183-189.	1.6	5
90	Relationships between personality and lateralization of sensory inputs. <i>Animal Behaviour</i> , 2018, 141, 127-135.	1.9	4

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91	Intraguild predation may explain an amphipod replacement: evidence from laboratory populations. Journal of Zoology, 1999, 249, 463-468.	1.7	4
92	Problems with repeated contests: a comment on Chapin et al. Behavioral Ecology, 2019, 30, 1189-1189.	2.2	2
93	Hermit Crabs " Information Gathering by the Hermit Crab, Pagurus bernhardus. , 0, , 222-243.		1