Walter Arnold

List of Publications by Year
in descending order

80	3,953	87843 38	123376 61
papers	citations	h-index	g-index

82	82	82	3516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hunting suitability model: a new tool for managing wild ungulates. Wildlife Biology, 2022, 2022, .	0.6	1
2	Effect of season and diet on heart rate and blood pressure in female red deer (Cervus elaphus) anaesthetised with medetomidine-tiletamine-zolazepam. PLoS ONE, 2022, 17, e0268811.	1.1	0
3	Maternal effects on reproduction in the precocial European hare (Lepus europaeus). PLoS ONE, 2021, 16, e0247174.	1.1	9
4	Fat storage influences fasting endurance more than body size in an ungulate. Functional Ecology, 2021, 35, 1470-1480.	1.7	4
5	Determinants of heart rate in Svalbard reindeer reveal mechanisms of seasonal energy management. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200215.	1.8	15
6	Labelling experiments in red deer provide a general model for early bone growth dynamics in ruminants. Scientific Reports, 2021, 11, 14074.	1.6	7
7	Positive effects of set-asides on European hare (Lepus europaeus) populations: Leverets benefit from an enhanced survival rate. Biological Conservation, 2020, 244, 108518.	1.9	17
8	Review: Seasonal differences in the physiology of wild northern ruminants. Animal, 2020, 14, s124-s132.	1.3	30
9	Marmots. Current Biology, 2019, 29, R779-R780.	1.8	3
10	Calibration of life history traits with epiphyseal closure, dental eruption and bone histology in captive and wild red deer. Journal of Anatomy, 2019, 235, 205-216.	0.9	24
11	Muscle nonshivering thermogenesis in a feral mammal. Scientific Reports, 2019, 9, 6378.	1.6	22
12	Energy expenditure and body temperature variations in llamas living in the High Andes of Peru. Scientific Reports, 2019, 9, 4037.	1.6	21
13	Flexibility, variability and constraint in energy management patterns across vertebrate taxa revealed by longâ€term heart rate measurements. Functional Ecology, 2019, 33, 260-272.	1.7	32
14	Energetics of Social Hibernation. , 2019, , 65-80.		5
15	Free-living greylag geese adjust their heart rates and body core temperatures to season and reproductive context. Scientific Reports, 2018, 8, 2142.	1.6	20
16	Novel treatment strategies for chronic kidney disease: insights from the animal kingdom. Nature Reviews Nephrology, 2018, 14, 265-284.	4.1	78
17	Circadian rhythmicity persists through the Polar night and midnight sun in Svalbard reindeer. Scientific Reports, 2018, 8, 14466.	1.6	53
18	Dietary Lipids Affect the Onset of Hibernation in the Garden Dormouse (Eliomys quercinus): Implications for Cardiac Function. Frontiers in Physiology, 2018, 9, 1235.	1.3	37

#	Article	IF	Citations
19	Effects of population structure and density on calf sex ratio in red deer (Cervus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td	0.7	0
20	Seasonal reproductive tactics: annual timing and the capital-to-income breeder continuum. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160250.	1.8	72
21	Seasonal changes in energy expenditure, body temperature and activity patterns in llamas (Lama glama). Scientific Reports, 2017, 7, 7600.	1.6	25
22	Muscle Non-shivering Thermogenesis and Its Role in the Evolution of Endothermy. Frontiers in Physiology, 2017, 8, 889.	1.3	113
23	Associations between Resting, Activity, and Daily Metabolic Rate in Free-Living Endotherms: No Universal Rule in Birds and Mammals. Physiological and Biochemical Zoology, 2016, 89, 251-261.	0.6	41
24	Disrupted seasonal biology impacts health, food security and ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151453.	1.2	130
25	Daily and Seasonal Rhythms in Human Mucosa Phospholipid Fatty Acid Composition. Journal of Biological Rhythms, 2015, 30, 331-341.	1.4	7
26	Ecophysiology of Omega Fatty Acids: A Lid for Every Jar. Physiology, 2015, 30, 232-240.	1.6	51
27	Contrary seasonal changes of rates of nutrient uptake, organ mass, and voluntary food intake in red deer (Cervus elaphus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R277-R285.	0.9	25
28	What Is a Mild Winter? Regional Differences in Within-Species Responses to Climate Change. PLoS ONE, 2015, 10, e0132178.	1.1	107
29	The European Hare (Lepus europaeus): A Picky Herbivore Searching for Plant Parts Rich in Fat. PLoS ONE, 2015, 10, e0134278.	1.1	56
30	Social Dominance Is Associated with Individual Differences in Heart Rate and Energetic Response to Food Restriction in Female Red Deer. Physiological and Biochemical Zoology, 2013, 86, 528-537.	0.6	16
31	Membrane Phospholipid Fatty Acid Composition Regulates Cardiac SERCA Activity in a Hibernator, the Syrian Hamster (Mesocricetus auratus). PLoS ONE, 2013, 8, e63111.	1.1	81
32	Physiological implications of pair-bond status in greylag geese. Biology Letters, 2012, 8, 347-350.	1.0	14
33	Sex-specific selection for MHC variability in Alpine chamois. BMC Evolutionary Biology, 2012, 12, 20.	3.2	22
34	Litter sex ratio affects lifetime reproductive success of freeâ€living female Alpine marmots Marmota marmota^{â€}. Mammal Review, 2012, 42, 310-313.	2.2	16
35	Taking the heat: thermoregulation in Asian elephants under different climatic conditions. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 311-319.	0.7	33
36	Seasonal Variation in Brain Prostaglandin D2 and E2 of Marmots and n-6 Fatty Acid Availability. , 2012, , 531-542.		7

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37	Hypometabolism and basking: the strategies of Alpine ibex to endure harsh over-wintering conditions. Functional Ecology, 2011, 25, 537-547.	1.7	104
38	Effects of season and reproductive state on lipid intake and fatty acid composition of gastrointestinal tract contents in the European hare. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 681-689.	0.7	15
39	Regulation of heart rate and rumen temperature in red deer: effects of season and food intake. Journal of Experimental Biology, 2011, 214, 963-970.	0.8	88
40	Diet-Independent Remodeling of Cellular Membranes Precedes Seasonally Changing Body Temperature in a Hibernator. PLoS ONE, 2011, 6, e18641.	1.1	83
41	Reusable biotelemetric capsules: A convenient and reliable method for measuring core body temperature in large mammals during gut passage. Journal of Thermal Biology, 2010, 35, 147-153.	1.1	5
42	A versatile telemetry system for continuous measurement of heart rate, body temperature and locomotor activity in free-ranging ruminants. Methods in Ecology and Evolution, 2010, 1, 75-85.	2.2	52
43	Food availability as a cue for mechanisms of winter energy conservation in red deer. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S148.	0.8	0
44	Rewarming rates of two large hibernators: Comparison of a monotreme and a eutherian. Journal of Thermal Biology, 2009, 34, 155-159.	1.1	15
45	The breeding season of the flightless cormorant Nannopterum harrisi at Cabo Hammond, Fernandina. Ibis, 2008, 125, 221-223.	1.0	1
46	Effects of polyunsaturated fatty acids on hibernation and torpor: a review and hypothesis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1044-R1052.	0.9	134
47	Heart rate modulation by social contexts in greylag geese (Anser anser).. Journal of Comparative Psychology (Washington, D C: 1983), 2008, 122, 100-107.	0.3	38
48	Seasonal adjustment of energy budget in a large wild mammal, the Przewalski horse (Equus ferus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	114
49	Seasonal adjustment of energy budget in a large wild mammal, the Przewalski horse (Equus ferus) Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	58
50	Running Speed in Mammals Increases with Muscle n-6 Polyunsaturated Fatty Acid Content. PLoS ONE, 2006, 1, e65.	1.1	44
51	Brief communication: Birth month influences reproductive performance in contemporary women. Human Reproduction, 2004, 19, 1081-1082.	0.4	27
52	Nocturnal hypometabolism as an overwintering strategy of red deer (Cervus elaphus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R174-R181.	0.9	125
53	Reproductive suppression in female Alpine marmots, Marmota marmota. Animal Behaviour, 2003, 65, 1133-1140.	0.8	132
54	Haulout behaviour of High Arctic harbour seals (Phoca vitulina vitulina) in Svalbard, Norway. Polar Biology, 2003, 27, 6-16.	0.5	42

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55	High content of polyunsaturated fatty acids in muscle phospholipids of a fast runner, the European brown hare (Lepus europaeus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2003, 173, 695-702.	0.7	44
56	Effects of season, sex, and sample collection on concentrations of fecal cortisol metabolites in red deer (Cervus elaphus). General and Comparative Endocrinology, 2003, 130, 48-54.	0.8	154
57	Modelling the role of social behavior in the persistence of the alpine marmot Marmota marmota. Oikos, 2003, 102, 124-136.	1.2	52
58	Seasonal changes in morphology and function of the gastrointestinal tract of free-living alpine marmots (Marmota marmota). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2002, 172, 197-207.	0.7	94
59	Postnatal development and thermoregulation in the precocial European hare (Lepus europaeus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2002, 172, 183-190.	0.7	69
60	Model complexity and population predictions. The alpine marmot as a case study. Journal of Animal Ecology, 2002, 71, 343-361.	1.3	108
61	Sustainable exploitation of social species: a test and comparison of models. Journal of Applied Ecology, 2002, 39, 629-642.	1.9	22
62	Explaining the seasonal decline in litter size in European ground squirrels. Ecography, 2001, 24, 205-211.	2.1	20
63	Estrus and Estrogen Changes in Mated and Unmated Free-Living European Ground Squirrels. Hormones and Behavior, 2000, 37, 190-197.	1.0	12
64	Essential Fatty Acids: Their Impact on Free-living Alpine Marmots (Marmota marmota). , 2000, , 215-222.		17
65	Mechanisms of Social Thermoregulation in Hibernating Alpine Marmots (Marmota marmota). , 2000, , 81-94.		20
66	Marmot phylogeny revisited: molecular evidence for a diphyletic origin of sociality. Journal of Zoological Systematics and Evolutionary Research, 1999, 37, 49-56.	0.6	52
67	Male-caused failure of female reproduction and its adaptive value in alpine marmots (Marmota) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	62
68	Reproductive effort and costs of reproduction in female European ground squirrels. Oecologia, 1999, 121, 19-24.	0.9	66
69	Ecology and Social Behavior of Golden Marmots (Marmota caudata aurea). Journal of Mammalogy, 1998, 79, 873.	0.6	45
70	Reproductive suppression in male alpine marmots. Animal Behaviour, 1997, 53, 53-66.	0.8	114
71	Isolation and characterization of microsatellite loci from Apodemus flavicollis (rodentia, muridae) and Clethrionomys glareolus (rodentia, cricetidae). Molecular Ecology, 1997, 6, 597-599.	2.0	61
72	Situational Specificity in Alpineâ€marmot Alarm Communication. Ethology, 1995, 100, 1-13.	0.5	53

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73	Social Behaviour and Telemetric Assessment of Thermoregulation in Hibernating Marmots. , 1995, , 395-411.		10
74	Low genetic variability in a natural alpine marmot population (Marmota marmota, Sciuridae) revealed by DNA fingerprinting. Molecular Ecology, 1994, 3, 347-353.	2.0	24
75	Ectoparasite loads decrease the fitness of alpine marmots (Marmota marmota) but are not a cost of sociality. Behavioral Ecology, 1993, 4, 36-39.	1.0	70
76	Ambient temperatures in hibernacula and their energetic consequences for alpine marmots Marmota marmota. Journal of Thermal Biology, 1991, 16, 223-226.	1.1	75
77	The evolution of marmot sociality: I. Why disperse late?. Behavioral Ecology and Sociobiology, 1990, 27, 229.	0.6	139
78	The evolution of marmot sociality: II. Costs and benefits of joint hibernation. Behavioral Ecology and Sociobiology, 1990, 27, 239.	0.6	148
79	Social thermoregulation during hibernation in alpine marmots (Marmota marmota). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1988, 158, 151-156.	0.7	135
80	The Primary Structure of the Hemoglobin of the European Marmot(Marmota marmota) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (ma	1.4	7