Daryl Codron

List of Publications by Citations

108 papers	2,823 citations	31 h-index	50 g-index
114 ext. papers	3,252 ext. citations	3.1 avg, IF	5.03 L-index

#	Paper	IF	Citations
108	Hominins, sedges, and termites: new carbon isotope data from the Sterkfontein valley and Kruger National Park. *Journal of Human Evolution*, **2005**, 48, 301-12	3.1	153
107	Strontium isotope evidence for landscape use by early hominins. *Nature*, **2011**, 474, 76-8	50.4	148
106	Taxonomic, anatomical, and spatio-temporal variations in the stable carbon and nitrogen isotopic compositions of plants from an African savanna. *Journal of Archaeological Science*, **2005**, 32, 1757-1772	2.9	140
105	Assessing the Jarman-Bell Principle: Scaling of intake, digestibility, retention time and gut fill with body mass in mammalian herbivores. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2013**, 164, 129-40	2.6	135
104	Hypsodonty and tooth facet development in relation to diet and habitat in herbivorous ungulates: implications for understanding tooth wear. *Mammal Review*, **2013**, 43, 34-46	5	117
103	Herbivory and body size: allometries of diet quality and gastrointestinal physiology, and implications for herbivore ecology and dinosaur gigantism. *PLoS ONE*, **2013**, 8, e68714	3.7	112
102	ELEPHANT (LOXODONTA AFRICANA) DIETS IN KRUGER NATIONAL PARK, SOUTH AFRICA: SPATIAL AND LANDSCAPE DIFFERENCES. *Journal of Mammalogy*, **2006**, 87, 27-34	1.8	84
101	Inter- and intrahabitat dietary variability of chacma baboons (Papio ursinus) in South African savannas based on fecal delta13C, delta15N, and %N. *American Journal of Physical Anthropology*, **2006**, 129, 204-14	2.5	81
100	Significance of diet type and diet quality for ecological diversity of African ungulates. *Journal of Animal Ecology*, **2007**, 76, 526-37	4.7	80
99	Stable isotope characterization of mammalian predatorþprey relationships in a South African savanna. *European Journal of Wildlife Research*, **2007**, 53, 161-170	2	75
98	Nutritional content of savanna plant foods: implications for browser/grazer models of ungulate diversification. *European Journal of Wildlife Research*, **2007**, 53, 100-111	2	71
97	Growth and wear of incisor and cheek teeth in domestic rabbits (Oryctolagus cuniculus) fed diets of different abrasiveness. *Journal of Experimental Zoology*, **2014**, 321, 283-98		70
96	Another one bites the dust: faecal silica levels in large herbivores correlate with high-crowned teeth. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 1742-7	4.4	69
95	The evolution of ecological specialization in southern African ungulates: competition- or physical environmental turnover?. *Oikos*, **2008**, 117, 344-353	4	63
94	What Insights Can Baboon Feeding Ecology Provide for Early Hominin Niche Differentiation?. *International Journal of Primatology*, **2008**, 29, 757-772	2	57
93	Reproductive seasonality in captive wild ruminants: implications for biogeographical adaptation, photoperiodic control, and life history. *Biological Reviews*, **2012**, 87, 965-90	13.5	54
92	Rumen physiology constrains diet niche: linking digestive physiology and food selection across wild ruminant species. *Canadian Journal of Zoology*, **2010**, 88, 1129-1138	1.5	50

91	Phylogenetic constraints on digesta separation: Variation in fluid throughput in the digestive tract in mammalian herbivores. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2011**, 160, 207-20	2.6	49
90	Landscape-scale feeding patterns of African elephant inferred from carbon isotope analysis of feces. *Oecologia*, **2011**, 165, 89-99	2.9	45
89	Tooth length and incisal wear and growth in guinea pigs (Cavia porcellus) fed diets of different abrasiveness. *Journal of Animal Physiology and Animal Nutrition*, **2015**, 99, 591-604	2.6	44
88	Functional differentiation of African grazing ruminants: an example of specialized adaptations to very small changes in diet. *Biological Journal of the Linnean Society*, **2008**, 94, 755-764	1.9	42
87	Using carbon isotopes to track dietary change in modern, historical, and ancient primates. *American Journal of Physical Anthropology*, **2009**, 140, 661-70	2.5	41
86	Reliability of δ13C and δ15N in faeces for reconstructing savanna herbivore diet. *Mammalian Biology*, **2009**, 74, 36-48	1.6	40
85	When animals are not quite what they eat: diet digestibility influences 13C-incorporation rates and apparent discrimination in a mixed-feeding herbivore. *Canadian Journal of Zoology*, **2011**, 89, 453-465	1.5	38
84	Stable isotope series from elephant ivory reveal lifetime histories of a true dietary generalist. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 2433-41	4.4	38
83	Breeding Young as a Survival Strategy during Earth's Greatest Mass Extinction. *Scientific Reports*, **2016**, 6, 24053	4.9	37
82	Low scaling of a life history variable: Analysing eutherian gestation periods with and without phylogeny-informed statistics. *Mammalian Biology*, **2014**, 79, 9-16	1.6	34
81	Ontogenetic niche shifts in dinosaurs influenced size, diversity and extinction in terrestrial vertebrates. *Biology Letters*, **2012**, 8, 620-3	3.6	34
80	Dichotomy of eutherian reproduction and metabolism. *Oikos*, **2012**, 121, 102-115	4	34
79	The effect of size and density on the mean retention time of particles in the reticulorumen of cattle (Bos primigenius f. taurus), muskoxen (Ovibos moschatus) and moose (Alces alces). *British Journal of Nutrition*, **2011**, 105, 634-44	3.6	33
78	The confounding effects of source isotopic heterogeneity on consumer-diet and tissue-tissue stable isotope relationships. *Oecologia*, **2012**, 169, 939-53	2.9	31
77	Detecting inter-cusp and inter-tooth wear patterns in rhinocerotids. *PLoS ONE*, **2013**, 8, e80921	3.7	31
76	Stable carbon isotope reconstruction of ungulate diet changes through the seasonal cycle. *South African Journal of Wildlife Research*, **2007**, 37, 117-125		31
75	Geometric factors influencing the diet of vertebrate predators in marine and terrestrial environments. *Ecology Letters*, **2014**, 17, 1553-9	10	25
74	Fecal Glucocorticoid Measurements and Their Relation to Rearing, Behavior, and Environmental Factors in the Population of Pileated Gibbons (Hylobates pileatus) Held in European Zoos. *International Journal of Primatology*, **2011**, 32, 1161-1178	2	24

73	Stable isotope evidence for trophic niche partitioning in a South African savanna rodent community. *Environmental Epigenetics*, **2015**, 61, 397-411	2.4	23
72	Plant stable isotope composition across habitat gradients in a semi-arid savanna: implications for environmental reconstruction. *Journal of Quaternary Science*, **2013**, 28, 301-310	2.3	22
71	Water intake in domestic rabbits (Oryctolagus cuniculus) from open dishes and nipple drinkers under different water and feeding regimes. *Journal of Animal Physiology and Animal Nutrition*, **2011**, 95, 499-511	2.6	22
70	Mesowear represents a lifetime signal in sheep (Ovis aries) within a long-term feeding experiment. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 553, 109793	2.9	21
69	Trophic ecology of two savanna grazers, blue wildebeest Connochaetes taurinus and black wildebeest Connochaetes gnou. *European Journal of Wildlife Research*, **2007**, 53, 90-99	2	21
68	Rumination of different-sized particles in muskoxen (Ovibos moschatus) and moose (Alces alces) on grass and browse diets, and implications for rumination in different ruminant feeding types. *Mammalian Biology*, **2013**, 78, 142-152	1.6	20
67	Bergmann?s rule in mammals: a cross-species interspecific pattern. *Oikos*, **2013**, 122, no-no	4	20
66	Ecological interactions in dinosaur communities: influences of small offspring and complex ontogenetic life histories. *PLoS ONE*, **2013**, 8, e77110	3.7	20
65	Within trophic level shifts in collagen-carbonate stable carbon isotope spacing are propagated by diet and digestive physiology in large mammal herbivores. *Ecology and Evolution*, **2018**, 8, 3983-3995	2.8	19
64	Tracking the fate of digesta 13C and 15N compositions along the ruminant gastrointestinal tract: Does digestion influence the relationship between diet and faeces?. *European Journal of Wildlife Research*, **2012**, 58, 303-313	2	19
63	Stable isotope turnover and variability in tail hairs of captive and free-ranging African elephants (Loxodonta africana) reveal dietary niche differences within populations. *Canadian Journal of Zoology*, **2013**, 91, 124-134	1.5	19
62	Predator size and prey size–gut capacity ratios determine kill frequency and carcass production in terrestrial carnivorous mammals. *Oikos*, **2019**, 128, 13-22	4	18
61	Preference of rabbits for drinking from open dishes versus nipple drinkers. *Veterinary Record*, **2011**, 168, 190	0.9	18
60	The turnover of dental microwear texture: Testing the ‘last supper’ effect in small mammals in a controlled feeding experiment. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 557, 109930	2.9	18
59	The rumen washes off abrasives before heavy-duty chewing in ruminants. *Mammalian Biology*, **2019**, 97, 104-111	1.6	17
58	Dental wear at macro- and microscopic scale in rabbits fed diets of different abrasiveness: A pilot investigation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 556, 109886	2.9	17
57	The way wear goes: phytolith-based wear on the dentine-enamel system in guinea pigs (). *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191921	4.4	15
56	Tooth wear in captive rhinoceroses (Diceros, Rhinoceros, Ceratotherium: Perissodactyla) differs from that of free-ranging conspecifics. *Contributions To Zoology*, **2014**, 83, 107-S1	1.6	15

55	Within-Population Isotopic Niche Variability in Savanna Mammals: Disparity between Carnivores and Herbivores. *Frontiers in Ecology and Evolution*, **2016**, 4,	3.7	15
54	Grass leaves as potential hominin dietary resources. *Journal of Human Evolution*, **2018**, 117, 44-52	3.1	14
53	Predator-prey interactions amongst Permo-Triassic terrestrial vertebrates as a deterministic factor influencing faunal collapse and turnover. *Journal of Evolutionary Biology*, **2017**, 30, 40-54	2.3	13
52	Stable isotope evidence for impala Aepyceros melampus diets at Akagera National Park, Rwanda. *African Journal of Ecology*, **2009**, 47, 490-501	0.8	12
51	Dry matter and digesta particle size gradients along the goat digestive tract on grass and browse diets. *Journal of Animal Physiology and Animal Nutrition*, **2017**, 101, 61-69	2.6	11
50	Fluid and particle passage in three duiker species. *European Journal of Wildlife Research*, **2011**, 57, 143-148	1.8	11
49	The effect of the rumen washing mechanism in sheep differs with concentration and size of abrasive particles. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 550, 109728	2.9	10
48	Diet and diet-related disorders in captive ruminants at the national zoological gardens of South Africa. *Zoo Biology*, **2014**, 33, 426-32	1.6	10
47	Stable isotope evidence for nutritional stress, competition, and loss of functional habitat as factors limiting recovery of rare antelope in southern Africa. *Journal of Arid Environments*, **2009**, 73, 449-457	2.5	10
46	Morphological and Physiological Adaptations for Browsing and Grazing. *Ecological Studies*, **2019**, 81-125	1.1	10
45	Stable carbon isotope ecology of small mammals from the Sterkfontein Valley: Implications for habitat reconstruction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 485, 57-67	2.9	9
44	Body condition and ruminal morphology responses of free-ranging impala (Aepyceros melampus) to changes in diet. *European Journal of Wildlife Research*, **2014**, 60, 599-612	2	9
43	Forestomach pH in hunted roe deer (Capreolus capreolus) in relation to forestomach region, time of measurement and supplemental feeding and comparison among wild ruminant species. *European Journal of Wildlife Research*, **2013**, 59, 505-517	2	8
42	Intrinsic factors, adrenal gland morphology, and disease burden in captive cheetahs (Acinonyx jubatus) in South Africa. *Zoo Biology*, **2017**, 36, 40-49	1.6	7
41	Digesta passage in nondomestic ruminants: Separation mechanisms in 'moose-type' and 'cattle-type' species, and seemingly atypical browsers. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2019**, 235, 180-192	2.6	7
40	A long life among ruminants: giraffids and other special cases. *Schweizer Archiv Fur Tierheilkunde*, **2011**, 153, 515-9	1.1	7
39	Isotopic niche structure of a mammalian herbivore assemblage from a West African savanna: Body mass and seasonality effect. *Mammalian Biology*, **2016**, 81, 644-650	1.6	7
38	Comparative omasum anatomy in ruminants: Relationships with natural diet, digestive physiology, and general considerations on allometric investigations. *Journal of Morphology*, **2019**, 280, 259-277	1.6	7

37	Confirmation of a wear-compensation mechanism in dental roots of ruminants. *Anatomical Record*, **2021**, 304, 425-436	2.1	7
36	Little differences in digestive efficiency for protein and fat in mammals of different trophic guilds and digestive strategies: data constraints or fundamental functional similarity?. *Journal of Animal Physiology and Animal Nutrition*, **2017**, 101 Suppl 1, 127-141	2.6	6
35	Gross intestinal morphometry and allometry in ruminants. *Journal of Morphology*, **2019**, 280, 1254-1266	1.6	6
34	Carnivore stable carbon isotope niches reflect predator-prey size relationships in African savannas. *Integrative Zoology*, **2018**, 13, 166-179	1.9	6
33	The uneven weight distribution between predators and prey: Comparing gut fill between terrestrial herbivores and carnivores. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2020**, 243, 110683	2.6	5
32	Growth rate and stable carbon and nitrogen isotope trophic discrimination factors of lion and leopard whiskers. *Rapid Communications in Mass Spectrometry*, **2018**, 32, 33-47	2.2	5
31	Ecological modelling, size distributions and taphonomic size bias in dinosaur faunas: reply to Brown et al. *Biology Letters*, **2013**, 9, 20120922	3.6	5
30	Dental microwear texture gradients in guinea pigs reveal that material properties of the diet affect chewing behaviour. *Journal of Experimental Biology*, **2021**, 224,	3	5
29	Small mammal insectivore stable carbon isotope compositions as habitat proxies in a South African savanna ecosystem. *Journal of Archaeological Science: Reports*, **2016**, 8, 335-345	0.7	5
28	Comparison of fluid types for resuscitation in acute hemorrhagic shock and evaluation of gastric luminal and transcutaneous Pco2 in Leghorn chickens. *Journal of Avian Medicine and Surgery*, **2013**, 27, 109-19		4
27	Tooth wear, growth and height in rabbits (Oryctolagus cuniculus) fed pelleted or extruded diets with or without added abrasives. *Journal of Animal Physiology and Animal Nutrition*, **2021**,	2.6	4
26	Influences on plant nutritional variation and their potential effects on hominin diet selection. *Review of Palaeobotany and Palynology*, **2019**, 261, 18-30	1.7	4
25	Dietary Evolution: The Panda Paradox. *Current Biology*, **2019**, 29, R417-R419	6.3	3
24	The ecomorphology of southern African rodent incisors: Potential applications to the hominin fossil record. *PLoS ONE*, **2019**, 14, e0205476	3.7	3
23	Macrowear effects of external quartz abrasives of different size and concentration in rabbits (Oryctolagus cuniculus). *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2021**,	1.8	3
22	Chewing, dental morphology and wear in tapirs (Tapirus spp.) and a comparison of free-ranging and captive specimens. *PLoS ONE*, **2020**, 15, e0234826	3.7	2
21	Bone mineral density in the leopard tortoise: Implications for inter-taxon variation and bone survivorship in an archaeozoological assemblage. *Quaternary International*, **2018**, 495, 64-78	2	2
20	Meso-Carnivore Niche Expansion in Response to an Apex Predator's Reintroduction - a Stable Isotope Approach. *African Journal of Wildlife Research*, **2018**, 48,	0.8	2

19	Source References and the Scientist's Mind-Map: Harvard vs. Vancouver Style. *Journal of Scholarly Publishing*, **2013**, 44, 274-282	0.3	2
18	'Remote' behavioural ecology: do megaherbivores consume vegetation in proportion to its presence in the landscape?. *PeerJ*, **2020**, 8, e8622	3.1	2
17	Elephant body mass cyclicity suggests effect of molar progression on chewing efficiency. *Mammalian Biology*, **2019**, 96, 81-86	1.6	2
16	Basic considerations on seasonal breeding in mammals including their testing by comparing natural habitats and zoos. *Mammalian Biology*, **2021**, 101, 373-386	1.6	2
15	Mammalian intestinal allometry, phylogeny, trophic level and climate. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20202888	4.4	2
14	Structural density of the leopard tortoise (Stigmochelys pardalis) shell and its implications for taphonomic research. *Journal of Archaeological Science: Reports*, **2019**, 26, 101819	0.7	1
13	Seasonal and habitat effects on the nutritional properties of savanna vegetation: Potential implications for early hominin dietary ecology. *Journal of Human Evolution*, **2019**, 133, 99-107	3.1	1
12	Preliminary evidence for a forestomach washing mechanism in llamas ().. *Mammalian Biology*, **2021**, 101, 941-948	1.6	1
11	Leopard tortoise Stigmochelys pardalis (Bell, 1928) mortality caused by electrified fences in central South Africa and its impact on tortoise demography. *African Journal of Herpetology*,1-21	0.6	1
10	Stable isotope evidence for mid-Pleistocene paleoenvironmental conditions at the site of Kathu Pan 1 (central interior, South Africa). *Quaternary International*, **2021**, 614, 37-37	2	1
9	Sand accumulation in the digestive tract of rabbits (Oryctolagus cuniculus) and guinea pigs (Cavia porcellus): The role of the appendix. *Journal of Morphology*, **2022**, 283, 5-15	1.6	0
8	Less need for differentiation? Intestinal length of reptiles as compared to mammals. *PLoS ONE*, **2021**, 16, e0253182	3.7	0
7	Skeletal allometries in the leopard tortoise (Stigmochelys pardalis): Predicting chelonian body size and mass distributions in archaeozoological assemblages. *Quaternary International*, **2021**, 614, 59-59	2	0
6	Evolution of Large Mammal Herbivores in Savannas **2019**, 213-243		
5	A Brief Update on Developments in Early Hominin Biogeochemistry. *ACS Symposium Series*, **2013**, 295-307	7.4	
4	Chewing, dental morphology and wear in tapirs (Tapirus spp.) and a comparison of free-ranging and captive specimens **2020**, 15, e0234826		
3	Chewing, dental morphology and wear in tapirs (Tapirus spp.) and a comparison of free-ranging and captive specimens **2020**, 15, e0234826		
2	Chewing, dental morphology and wear in tapirs (Tapirus spp.) and a comparison of free-ranging and captive specimens **2020**, 15, e0234826		

1 Chewing, dental morphology and wear in tapirs (Tapirus spp.) and a comparison of free-ranging and captive specimens **2020**, 15, e0234826