## R Norman Owen-Smith

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1643028/publications.pdf

Version: 2024-02-01

160 papers 10,387 citations

41344 49 h-index 93 g-index

177 all docs

177 docs citations

times ranked

177

6536 citing authors

#	Article	IF	CITATIONS
1	Contrasting capabilities of two ungulate species to cope with extremes of aridity. Scientific Reports, 2021, 11, 4216.	3.3	7
2	How spatial and dietary overlap with domestic livestock affect African wild ass nutrition on the Messir Plateau (Eritrea). Journal of Mammalogy, 2021, 102, 1174-1185.	1.3	2
3	Big Fierce Carnivores: Hunting Versus Scavenging. , 2021, , 170-180.		O
4	How Large Herbivores Transform Savanna Ecosystems. , 2021, , 199-219.		1
5	Herbivore Abundance: Bottom-up and Top-down Influences. , 2021, , 181-198.		O
6	How an Ape Became a Hunter., 2021,, 271-300.		0
7	Niche Distinctions: Resources Versus Risks. , 2021, , 145-169.		O
8	Primate Ecology: From Forests into Savannas. , 2021, , 253-270.		0
9	Paleo-faunas: Rise and Fall of the Biggest Grazers. , 2021, , 220-242.		O
10	Reticulate Evolution Through Turbulent Times. , 2021, , 329-339.		0
11	How Trees and Grasses Grow and Compete. , 2021, , 97-117.		0
12	Rethinking megafauna. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192643.	2.6	35
13	Quantifying water requirements of African ungulates through a combination of functional traits. Ecological Monographs, 2020, 90, e01404.	5.4	32
14	Movement ecology of large herbivores in African savannas: current knowledge and gaps. Mammal Review, 2020, 50, 252-266.	4.8	17
15	The functional roles of mammals in ecosystems. Journal of Mammalogy, 2019, 100, 942-964.	1.3	116
16	How free-ranging ungulates with differing water dependencies cope with seasonal variation in temperature and aridity., 2019, 7, coz064.		18
17	Ramifying effects of the risk of predation on African multi-predator, multi-prey large-mammal assemblages and the conservation implications. Biological Conservation, 2019, 232, 51-58.	4.1	26
18	Elephantâ€mediated compositional changes in riparian canopy trees over more than two decades in northern Botswana. Journal of Vegetation Science, 2018, 29, 585-595.	2.2	12

#	Article	IF	Citations
19	Ecological and evolutionary legacy of megafauna extinctions. Biological Reviews, 2018, 93, 845-862.	10.4	183
20	Comparison of Kernel Density and Local Convex Hull Methods for Assessing Distribution Ranges of Large Mammalian Herbivores. Transactions in GIS, 2017, 21, 359-375.	2.3	9
21	Megaherbivores, Competition and Coexistence within the Large Herbivore Guild., 2017, , 111-134.		6
22	The Functional Ecology of Grazing Lawns: How Grazers, Termites, People, and Fire Shape HiP's Savanna Grassland Mosaic., 2017, , 135-160.		10
23	Reassembly of the Large Predator Guild into Hluhluwe-iMfolozi Park. , 2017, , 286-310.		15
24	Successful Control of the Invasive Shrub <i>Chromolaena odorata</i> in Hluhluwe-iMfolozi Park. , 2017, , 358-382.		9
25	Smaller ungulates are first to incur imminent extirpation from an African protected area. Biological Conservation, 2017, 216, 108-114.	4.1	8
26	Space use patterns of a large mammalian herbivore distinguished by activity state: fear versus food?. Journal of Zoology, 2017, 303, 281-290.	1.7	18
27	Assessment of wildlife populations trends in three protected areas in Tanzania from 1991 to 2012. African Journal of Ecology, 2017, 55, 305-315.	0.9	12
28	Habitat selectivity influences the reactive responses of African ungulates to encounters with lions. Animal Behaviour, 2016, 116, 163-170.	1.9	24
29	Evidence of reduced individual heterogeneity in adult survival of long-lived species. Evolution; International Journal of Organic Evolution, 2016, 70, 2909-2914.	2.3	38
30	Ecology of grazing lawns in Africa. Biological Reviews, 2015, 90, 979-994.	10.4	149
31	Carcass size shapes the structure and functioning of an African scavenging assemblage. Oikos, 2015, 124, 1391-1403.	2.7	113
32	Mechanisms of coexistence in diverse herbivore–carnivore assemblages: demographic, temporal and spatial heterogeneities affecting prey vulnerability. Oikos, 2015, 124, 1417-1426.	2.7	32
33	How Rainfall Variation Influences Reproductive Patterns of African Savanna Ungulates in an Equatorial Region Where Photoperiod Variation Is Absent. PLoS ONE, 2015, 10, e0133744.	2.5	20
34	Spatially nested niche partitioning between syntopic grazers at foraging arena scale within overlapping home ranges. Ecosphere, 2015, 6, 1-17.	2.2	25
35	Coping with Spatial Heterogeneity and Temporal Variability in Resources and Risks: Adaptive Movement Behaviour by a Large Grazing Herbivore. PLoS ONE, 2015, 10, e0118461.	2.5	33
36	Identifying Space Use at Foraging Arena Scale within the Home Ranges of Large Herbivores. PLoS ONE, 2015, 10, e0128821.	<b>2.</b> 5	24

#	Article	IF	Citations
37	A Mathematical Model of Black Rhino Translocation Strategy. Journal of Mathematical and Fundamental Sciences, 2015, 47, 104-115.	0.5	4
38	Comparative diet and habitat selection of puku and lech we in northern Botswana. Journal of Mammalogy, 2014, 95, 933-942.	1.3	15
39	Restricted habitat use by an African savanna herbivore through the seasonal cycle: key resources concept expanded. Ecography, 2014, 37, 969-982.	4.5	44
40	Spatial ecology of large herbivore populations. Ecography, 2014, 37, 416-430.	4.5	21
41	Home range occupation and habitat use of sable antelope in the <scp>O</scp> kavango <scp>D</scp> elta region of northern <scp>B</scp> otswana. African Journal of Ecology, 2014, 52, 237-245.	0.9	9
42	Facultative predation and scavenging by mammalian carnivores: seasonal, regional and intraâ€guild comparisons. Mammal Review, 2014, 44, 44-55.	4.8	134
43	Humans and Scavengers: The Evolution of Interactions and Ecosystem Services. BioScience, 2014, 64, 394-403.	4.9	173
44	Coping with savanna seasonality: comparative daily activity patterns of <scp>A</scp> frican ungulates as revealed by <scp>GPS</scp> telemetry. Journal of Zoology, 2014, 293, 181-191.	1.7	88
45	Interâ€specific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 2014, 89, 1042-1054.	10.4	120
46	Resource use and the nutritional status of sable antelope in the Okavango Delta region of northern Botswana. African Journal of Ecology, 2013, 52, n/a-n/a.	0.9	8
47	Are relatively rare antelope narrowly selective feeders? A sable antelope and zebra comparison. Journal of Zoology, 2013, 291, 163-170.	1.7	14
48	Ten lessons for the conservation of African savannah ecosystems. Biological Conservation, 2013, 167, 224-232.	4.1	44
49	Distributional niche of relatively rare sable antelope in a South African savanna: habitat versus biotic relationships. Ecography, 2013, 36, 68-79.	4.5	27
50	Contrasts in the large herbivore faunas of the southern continents in the late Pleistocene and the ecological implications for human origins. Journal of Biogeography, 2013, 40, 1215-1224.	3.0	63
51	Controls over reproductive phenology among ungulates: allometry and tropicalâ€ŧemperate contrasts. Ecography, 2013, 36, 256-263.	4.5	17
52	Megaherbivores., 2013,, 223-239.		9
53	Faecal nutritional indicators in relation to the comparative population performance of sable antelope and other grazers. African Journal of Ecology, 2013, 52, n/a-n/a.	0.9	7
54	Daily movement responses by African savanna ungulates as an indicator of seasonal and annual food stress. Wildlife Research, 2013, 40, 232.	1.4	16

#	Article	IF	CITATIONS
55	Applying mixture models to derive activity states of large herbivores from movement rates obtained using GPS telemetry. Wildlife Research, 2012, 39, 452.	1.4	27
56	BLACK RHINOCEROS ( <i>DICEROS BICORNIS</i> ) NATURAL DIETS: COMPARING IRON LEVELS ACROSS SEASONS AND GEOGRAPHICAL LOCATIONS. Journal of Zoo and Wildlife Medicine, 2012, 43, S48-S54.	0.6	18
57	Animal Ethics and Ecotourism. South African Journal of Wildlife Research, 2012, 42, iii-v.	1.4	4
58	Selective feeding by a megaherbivore, the African elephant ( <i>Loxodonta africana</i> ). Journal of Mammalogy, 2012, 93, 698-705.	1.3	73
59	Shrinking sable antelope numbers in <scp>K</scp> ruger <scp>N</scp> ational <scp>P</scp> ark: what is suppressing population recovery?. Animal Conservation, 2012, 15, 195-204.	2.9	27
60	Habitat and resource partitioning between abundant and relatively rare grazing ungulates. Journal of Zoology, 2012, 287, 175-185.	1.7	49
61	Changes of population trends and mortality patterns in response to the reintroduction of large predators: The case study of African ungulates. Acta Oecologica, 2012, 42, 16-29.	1.1	14
62	Changing distributions of larger ungulates in the Kruger National Park from ecological aerial survey data. Koedoe, 2012, 54, .	0.9	10
63	Dynamic spatial partitioning and coexistence among tall grass grazers in an African savanna. Oikos, 2012, 121, 891-898.	2.7	46
64	Dry season browsing by sable antelope in northern <scp>B</scp> otswana. African Journal of Ecology, 2012, 50, 513-516.	0.9	9
65	Dynamics of ungulates in relation to climatic and land use changes in an insularized African savanna ecosystem. Biodiversity and Conservation, 2012, 21, 1033-1053.	2.6	55
66	Competition and coexistence among short-grass grazers in the Hluhluwe-iMfolozi Park, South Africa. Canadian Journal of Zoology, 2011, 89, 900-907.	1.0	21
67	Accommodating environmental variation in population models: metaphysiological biomass loss accounting. Journal of Animal Ecology, 2011, 80, 731-741.	2.8	12
68	Continuing wildlife population declines and range contraction in the Mara region of Kenya during 1977–2009. Journal of Zoology, 2011, 285, 99-109.	1.7	191
69	The role of El Niño–Southern Oscillation in the dynamics of a savanna large herbivore population. Oikos, 2011, 120, 1175-1182.	2.7	7
70	Consumer-Resource Dynamics: Quantity, Quality, and Allocation. PLoS ONE, 2011, 6, e14539.	2.5	6
71	The importance of postâ€fire regrowth for sable antelope in a Southern African savanna. African Journal of Ecology, 2010, 48, 526-534.	0.9	41
72	Foraging theory upscaled: the behavioural ecology of herbivore movement. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2267-2278.	4.0	271

#	Article	IF	CITATIONS
73	Chapter 5 Empirical Evidence of Densityâ€Dependence in Populations of Large Herbivores. Advances in Ecological Research, 2009, 41, 313-357.	2.7	285
74	Episodic severe damage to canopy trees by elephants: interactions with fire, frost and rain. Journal of Tropical Ecology, 2009, 25, 341-345.	1.1	26
75	Resource partitioning by grass height among grazing ungulates does not follow body size relation. Oikos, 2008, 117, 1711-1717.	2.7	79
76	Changing vulnerability to predation related to season and sex in an African ungulate assemblage. Oikos, 2008, 117, 602-610.	2.7	75
77	The refuge concept extends to plants as well: storage, buffers and regrowth in variable environments. Oikos, 2008, 117, 481-483.	2.7	10
78	Predator–prey size relationships in an African largeâ€mammal food web. Journal of Animal Ecology, 2008, 77, 173-183.	2.8	273
79	SHIFTING PREY SELECTION GENERATES CONTRASTING HERBIVORE DYNAMICS WITHIN A LARGE-MAMMAL PREDATOR–PREY WEB. Ecology, 2008, 89, 1120-1133.	3.2	91
80	Forage selection of sable antelope in Pilanesberg Game Reserve, South Africa. South African Journal of Wildlife Research, 2008, 38, 35-41.	1.4	19
81	The Comparative Population Dynamics of Browsing and Grazing Ungulates. Ecological Studies, 2008, , 149-177.	1.2	24
82	EFFECTS OF ELEPHANTS ON ECOSYSTEMS AND BIODIVERSITY., 2008, , 146-205.		41
83	The refuge concept extends to plants as well: storage, buffers and regrowth in variable environments. Oikos, 2008, .	2.7	0
84	Resource partitioning by grass height among grazing ungulates does not follow body size relation. Oikos, 2008, , .	2.7	0
85	Movement patterns of sable antelope in the Kruger National Park from GPS/GSM collars: a preliminary assessment. South African Journal of Wildlife Research, 2007, 37, 143-151.	1.4	13
86	Indicators of Adaptive Responses in Home Range Utilization and Movement Patterns by a Large Mammalian Herbivore. Israel Journal of Ecology and Evolution, 2007, 53, 423-438.	0.6	15
87	Stable carbon isotope analysis of eland (Taurotragus oryx) diet in the Suikerbosrand Nature Reserve. South African Journal of Wildlife Research, 2007, 37, 127-131.	1.4	10
88	Protagonists of Healthy Ecosystems. Conservation Biology, 2007, 21, 888-888.	4.7	0
89	DEMOGRAPHIC DETERMINATION OF THE SHAPE OF DENSITY DEPENDENCE FOR THREE AFRICAN UNGULATE POPULATIONS. Ecological Monographs, 2006, 76, 93-109.	5.4	64
90	Comparative resprouting response of Savanna woody plant species following harvesting: the value of persistence. Forest Ecology and Management, 2006, 232, 114-123.	3.2	63

#	Article	IF	Citations
91	Impact of elephants (Loxodonta africana) on woody plants in Malolotja Nature Reserve, Swaziland. African Journal of Ecology, 2006, 44, 407-409.	0.9	6
92	Foraging ecology of roan antelope: key resources during critical periods. African Journal of Ecology, 2006, 44, 228-236.	0.9	14
93	New Insights into the Physiology of Natural Foraging. Physiological and Biochemical Zoology, 2006, 79, 242-249.	1.5	8
94	MANIFOLD INTERACTIVE INFLUENCES ON THE POPULATION DYNAMICS OF A MULTISPECIES UNGULATE ASSEMBLAGE. Ecological Monographs, 2006, 76, 73-92.	5.4	114
95	Comparative changes in adult vs. juvenile survival affecting population trends of African ungulates. Journal of Animal Ecology, 2005, 74, 762-773.	2.8	93
96	Correlates of survival rates for 10 African ungulate populations: density, rainfall and predation. Journal of Animal Ecology, 2005, 74, 774-788.	2.8	123
97	Oscillations in large mammal populations: are they related to predation or rainfall?. African Journal of Ecology, 2005, 43, 332-339.	0.9	71
98	Incorporating fundamental laws of biology and physics into population ecology: the metaphysiological approach. Oikos, 2005, 111, 611-615.	2.7	18
99	Functional heterogencity in resources within landscapes and herbivore population dynamics. Landscape Ecology, 2005, 20, 317-317.	4.2	6
100	Alternating sexual segregation during the mating season by male African buffalo (Syncerus caffer). Journal of Zoology, 2005, 267, 291.	1.7	34
101	Functional heterogeneity in resources within landscapes and herbivore population dynamics. Landscape Ecology, 2004, 19, 761-771.	4.2	105
102	Viability of a diminishing roan antelope population: predation is the threat. Animal Conservation, 2003, 6, 231-236.	2.9	21
103	ENSO, rainfall and temperature influences on extreme population declines among African savanna ungulates. Ecology Letters, 2003, 6, 412-419.	6.4	223
104	Consumer–resource models : theory and formulation. , 2002, , 13-37.		0
105	Conceptual origins: variability in time and space., 2002,, 1-12.		0
106	Resource abundance: intake response and time frames., 2002,, 38-60.		0
107	Resource quality: nutritional gain and diet choice., 2002,, 85-109.		0
108	Resource constraints: physiological capacities and costs., 2002,, 110-135.		0

#	Article	IF	Citations
109	Resource allocation: growth, storage and reproduction., 2002,, 136-161.		O
110	Resource production: regeneration and attrition., 2002,, 162-183.		1
111	Resource competition: exploitation and density dependence., 2002,, 184-204.		0
112	Resource-dependent mortality: nutrition, predation and demography., 2002,, 205-231.		0
113	Population dynamics: resource basis for instability., 2002,, 301-334.		0
114	Resource distribution: patch scales and depletion., 2002,, 61-84.		0
115	Habitat suitability: resource components and stocking densities., 2002,, 232-263.		1
116	Resource partitioning: competition and coexistence., 2002,, 264-300.		0
117	An adaptive resource ecology: foundation and prospects., 2002,, 335-345.		0
118	A metaphysiological modelling approach to stability in herbivore–vegetation systems. Ecological Modelling, 2002, 149, 153-178.	2.5	43
119	The role of companionship in the dispersal of white rhinoceroses ( Ceratotherium simum ). Behavioral Ecology and Sociobiology, 2002, 52, 255-261.	1.4	50
120	Facilitation versus competition in grazing herbivore assemblages. Oikos, 2002, 97, 313-318.	2.7	210
121	Phenological influences on the utilization of woody plants by eland in semiâ€arid shrubland. African Journal of Ecology, 2002, 40, 65-75.	0.9	17
122	Comparative use of grass regrowth following burns by four ungulate species in the Nylsvley Nature Reserve, South Africa. African Journal of Ecology, 2002, 40, 201-204.	0.9	32
123	Diet composition and habitat selection of eland in semi-arid shrubland. African Journal of Ecology, 2000, 38, 130-137.	0.9	47
124	MODELING THE POPULATION DYNAMICS OF A SUBTROPICAL UNGULATE IN A VARIABLE ENVIRONMENT: RAIN, COLD AND PREDATORS. Natural Resource Modelling, 2000, 13, 57-87.	2.0	40
125	CONSERVATION:Sustaining Natural and Human Capital: Villagers and Scientists. Science, 1999, 283, 1855-1856.	12.6	76
126	Establishing the causes of the roan antelope decline in the Kruger National Park, South Africa. Biological Conservation, 1999, 90, 69-78.	4.1	163

#	Article	IF	Citations
127	A METAPHYSIOLOGICAL POPULATION MODEL OF STORAGE IN VARIABLE ENVIRONMENTS. Natural Resource Modelling, 1999, 12, 197-230.	2.0	29
128	How high ambient temperature affects the daily activity and foraging time of a subtropical ungulate, the greater kudu (Tragelaphus strepsiceros). Journal of Zoology, 1998, 246, 183-192.	1.7	110
129	Seasonal selection of soil types and grass swards by roan antelope in a South African savanna. African Journal of Ecology, 1998, 36, 57-70.	0.9	30
130	How high ambient temperature affects the daily activity and foraging time of a subtropical ungulate, the greater kudu (Tragelaphus strepsiceros). Journal of Zoology, 1998, 246, 183-192.	1.7	3
131	Control of energy balance by a wild ungulate, the kudu (Tragelaphus strepsiceros) through adaptive foraging behaviour. Proceedings of the Nutrition Society, 1997, 56, 15-24.	1.0	24
132	How successful was Edwards' linear programming model for marmots?. Oecologia, 1997, 112, 331-332.	2.0	1
133	Circularity in linear programming models of optimal diet. Oecologia, 1996, 108, 259-261.	2.0	30
134	Abundance and guild structure of grasshoppers (Orthoptera: Acridoidea) in communally grazed and protected savanna. South African Journal of Zoology, 1996, 31, 120-130.	0.5	17
135	Foraging Responses of Kudus to Seasonal Changes in Food Resources: Elasticity in Constraints. Ecology, 1994, 75, 1050-1062.	3.2	157
136	Age, size, dominance and reproduction among male kudus: mating enhancement by attrition of rivals. Behavioral Ecology and Sociobiology, 1993, 32, 177.	1.4	66
137	Evaluating optimal diet models for an African browsing ruminant, the kudu: How constraining are the assumed constraints?. Evolutionary Ecology, 1993, 7, 499-524.	1.2	64
138	Assessing the constraints for optimal diet models. Evolutionary Ecology, 1993, 7, 530-531.	1.2	11
139	Browse and browsers: Interactions between woody plants and mammalian herbivores. Trends in Ecology and Evolution, 1993, 8, 158-160.	8.7	31
140	Comparative Mortality Rates of Male and Female Kudus: The Costs of Sexual Size Dimorphism. Journal of Animal Ecology, 1993, 62, 428.	2.8	154
141	Effects of Severe Defoliation on the Long-Term Resistance to Insect Attack and on Leaf Chemistry in Six Woody Species of the Southern African Savanna. American Naturalist, 1991, 137, 50-63.	2.1	610
142	Demography of a Large Herbivore, the Greater Kudu Tragelaphus strepsiceros, in Relation to Rainfall. Journal of Animal Ecology, 1990, 59, 893.	2.8	211
143	Nutritional ecology of a browsing ruminant, the kudu ( <i>Tragelaphus strepsiceros</i> ), through the seasonal cycle. Journal of Zoology, 1989, 219, 29-43.	1.7	96
144	Body Size, Population Metabolism, and Habitat Specialization Among Large African Herbivores. American Naturalist, 1989, 133, 736-740.	2.1	111

#	Article	IF	Citations
145	Megafaunal Extinctions: The Conservation Message from 11,000 Years B.P Conservation Biology, 1989, 3, 405-412.	4.7	137
146	The megaherbivore syndrome: alternative life style or different time frame?., 1989,, 441-457.		2
147	Foliage acceptability to browsing ruminants in relation to seasonal changes in the leaf chemistry of woody plants in a South African savanna. Oecologia, 1988, 75, 336-342.	2.0	172
148	Palatability of Woody Plants to Browsing Ruminants in a South African Savanna. Ecology, 1987, 68, 319-331.	3.2	178
149	Assessing Food Preferences of Ungulates by Acceptability Indices. Journal of Wildlife Management, 1987, 51, 372.	1.8	62
150	Pleistocene extinctions: the pivotal role of megaherbivores. Paleobiology, 1987, 13, 351-362.	2.0	363
151	Effects of plant spinescence on large mammalian herbivores. Oecologia, 1986, 68, 446-455.	2.0	352
152	Condensed tannins deter feeding by browsing ruminants in a South African savanna. Oecologia, 1985, 67, 142-146.	2.0	259
153	Spatial and temporal components of the mating systems of kudu bulls and red deer stags. Animal Behaviour, 1984, 32, 321-332.	1.9	34
154	What Should a Clever Ungulate Eat?. American Naturalist, 1982, 119, 151-178.	2.1	352
155	THE WHITE RHINO OVERPOPULATION PROBLEM AND A PROPOSED SOLUTION. , 1981, , 129-150.		31
156	On Territoriality in Ungulates and an Evolutionary Model. Quarterly Review of Biology, 1977, 52, 1-38.	0.1	173
157	The Social Ethology of the White Rhinoceros <i>Ceratotberium simum</i> (Burchell 1817*). Zeitschrift Für Tierpsychologie, 1975, 38, 337-384.	0.2	107
158	Territorialit: The Example of the White Rhinoceros. Zoologica Africana, 1972, 7, 273-280.	0.2	16
159	Territoriality in the White Rhinoceros (Ceratotherium simum) Burchell. Nature, 1971, 231, 294-296.	27.8	74
160	Rhino Management Challenges: Spatial and Social Ecology for Habitat and Population Management., 0, , 265-285.		4