David Raubenheimer

List of Publications by Citations

252 papers	13,068 citations	64 h-index	106 g-index
260 ext. papers	15,447 ext. citations	5.3 avg, IF	6.76 L-index

#	Paper	IF	Citations
252	Lifespan and reproduction in Drosophila: New insights from nutritional geometry. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 2498-503	11.5	697
251	The ratio of macronutrients, not caloric intake, dictates cardiometabolic health, aging, and longevity in ad libitum-fed mice. *Cell Metabolism*, **2014**, 19, 418-30	24.6	572
250	Optimal foraging when regulating intake of multiple nutrients. *Animal Behaviour*, **2004**, 68, 1299-1311	2.8	413
249	Nutrition, ecology and nutritional ecology: toward an integrated framework. *Functional Ecology*, **2009**, 23, 4-16	5.6	398
248	Nutrient-specific foraging in invertebrate predators. *Science*, **2005**, 307, 111-3	33.3	343
247	Sex-specific fitness effects of nutrient intake on reproduction and lifespan. *Current Biology*, **2008**, 18, 1062-6	6.3	332
246	The Nature of Nutrition **2012**,		254
245	Protein content of diets dictates the daily energy intake of a free-ranging primate. *Behavioral Ecology*, **2009**, 20, 685-690	2.3	221
244	Modelling the ecological niche from functional traits. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 3469-83	5.8	214
243	Macronutrient balance mediates trade-offs between immune function and life history traits. *Functional Ecology*, **2011**, 25, 186-198	5.6	206
242	Nutritional ecology of marine herbivorous fishes: ten years on. *Functional Ecology*, **2009**, 23, 79-92	5.6	161
241	Nutritional ecology of entomophagy in humans and other primates. *Annual Review of Entomology*, **2013**, 58, 141-60	21.8	156
240	Testing protein leverage in lean humans: a randomised controlled experimental study. *PLoS ONE*, **2011**, 6, e25929	3.7	154
239	Macronutrient balance, reproductive function, and lifespan in aging mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3481-6	11.5	152
238	Geometric analysis of macronutrient intake in humans: the power of protein?. *Appetite*, **2003**, 41, 123-40	4.5	152
237	Nutritional geometry: gorillas prioritize non-protein energy while consuming surplus protein. *Biology Letters*, **2011**, 7, 847-9	3.6	141
236	Optimal foraging for specific nutrients in predatory beetles. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 2212-8	4.4	137

235	The impact of low-protein high-carbohydrate diets on aging and lifespan. *Cellular and Molecular Life Sciences*, **2016**, 73, 1237-52	10.3	136
234	Protein-leverage in mice: the geometry of macronutrient balancing and consequences for fat deposition. *Obesity*, **2008**, 16, 566-71	8	135
233	Toward a quantitative nutritional ecology: the right-angled mixture triangle. *Ecological Monographs* , **2011**, 81, 407-427	9	134
232	Dietary restriction and aging: a unifying perspective. *Cell Metabolism*, **2011**, 14, 154-60	24.6	130
231	Nutritional Ecology of Ateles chamek in lowland Bolivia: How Macronutrient Balancing Influences Food Choices. *International Journal of Primatology*, **2009**, 30, 675-696	2	127
230	HERBIVORE FORAGING IN CHEMICALLY HETEROGENEOUS ENVIRONMENTS: NUTRIENTS AND SECONDARY METABOLITES. *Ecology*, **2002**, 83, 2489-2501	4.6	125
229	Match and mismatch: conservation physiology, nutritional ecology and the timescales of biological adaptation. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2012**, 367, 1628-46	5.8	118
228	Defining the Nutritional and Metabolic Context of FGF21Using the Geometric Framework. *Cell Metabolism*, **2016**, 24, 555-565	24.6	118
227	Dietary Protein to Carbohydrate Ratio and Caloric Restriction: Comparing Metabolic Outcomes in Mice. *Cell Reports*, **2015**, 11, 1529-34	10.6	117
226	Putting the balance back in diet. *Cell*, **2015**, 161, 18-23	56.2	115
225	STOICHIOMETRY: LINKING ELEMENTS TO BIOCHEMICALS. *Ecology*, **2004**, 85, 1193-1202	4.6	112
224	Nutritional contributions of insects to primate diets: implications for primate evolution. *Journal of Human Evolution*, **2014**, 71, 59-69	3.1	111
223	The Hungry Locust. *Advances in the Study of Behavior*, **2000**, 29, 1-44	3.4	110
222	Obligate herbivory in an ancestrally carnivorous lineage: the giant panda and bamboo from the perspective of nutritional geometry. *Functional Ecology*, **2015**, 29, 26-34	5.6	108
221	Nutrient-specific compensation following diapause in a predator: implications for intraguild predation. *Ecology*, **2007**, 88, 2598-608	4.6	108
220	Tannic Acid, Protein, and Digestible Carbohydrate: Dietary Imbalance and Nutritional Compensation in Locusts. *Ecology*, **1992**, 73, 1012-1027	4.6	108
219	ORGANISMAL STOICHIOMETRY: QUANTIFYING NON-INDEPENDENCE AMONG FOOD COMPONENTS. *Ecology*, **2004**, 85, 1203-1216	4.6	107
218	Geometric analysis of macronutrient selection in the adult domestic cat, Felis catus. *Journal of Experimental Biology*, **2011**, 214, 1039-51	3	106

217	Evolving resistance to obesity in an insect. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14045-9	11.5	106
216	Branched chain amino acids impact health and lifespan indirectly via amino acid balance and appetite control. *Nature Metabolism*, **2019**, 1, 532-545	14.6	105
215	Nutritional immunology: a multi-dimensional approach. *PLoS Pathogens*, **2011**, 7, e1002223	7.6	105
214	Macronutrient optimization and energy maximization determine diets of brown bears. *Journal of Mammalogy*, **2014**, 95, 160-168	1.8	98
213	Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. *Cell Metabolism*, **2017**, 25, 140-151	24.6	97
212	Modelling nutritional interactions: from individuals to communities. *Trends in Ecology and Evolution*, **2010**, 25, 53-60	10.9	97
211	Integrating nutrition and immunology: a new frontier. *Journal of Insect Physiology*, **2013**, 59, 130-7	2.4	93
210	Recent advances in the integrative nutrition of arthropods. *Annual Review of Entomology*, **2015**, 60, 293-311	11.8	91
209	The effects of nutritional imbalance on compensatory feeding for cellulose-mediated dietary dilution in a generalist caterpillar. *Physiological Entomology*, **2004**, 29, 108-117	1.9	91
208	Macronutrients and caloric intake in health and longevity. *Journal of Endocrinology*, **2015**, 226, R17-28	4.7	90
207	The Multidimensional Nutritional Niche. *Trends in Ecology and Evolution*, **2016**, 31, 355-365	10.9	89
206	Balancing heat, water and nutrients under environmental change: a thermodynamic niche framework. *Functional Ecology*, **2013**, 27, 950-966	5.6	85
205	Balancing of protein and lipid intake by a mammalian carnivore, the mink, Mustela vison. *Animal Behaviour*, **2009**, 77, 349-355	2.8	85
204	Macronutrient optimization and seasonal diet mixing in a large omnivore, the grizzly bear: a geometric analysis. *PLoS ONE*, **2014**, 9, e97968	3.7	83
203	Nutritional Ecology and Human Health. *Annual Review of Nutrition*, **2016**, 36, 603-26	9.9	81
202	Towards a synthesis of frameworks in nutritional ecology: interacting effects of protein, carbohydrate and phosphorus on field cricket fitness. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281,	4.4	78
201	Impact of climate change on human-wildlife-ecosystem interactions in the Trans-Himalaya region of Nepal. *Theoretical and Applied Climatology*, **2014**, 115, 517-529	3	78
200	Caloric restriction and aging revisited: the need for a geometric analysis of the nutritional bases of aging. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 707-13	6.4	76

199	Assuaging nutritional complexity: a geometrical approach. *Proceedings of the Nutrition Society*, **1999**, 58, 779-89	2.9	76
198	What We Know about the Public's Level of Concern for Farm Animal Welfare in Food Production in Developed Countries. *Animals*, **2016**, 6,	3.1	76
197	Arthropod food webs become increasingly lipid-limited at higher trophic levels. *Ecology Letters*, **2013**, 16, 895-902	10	75
196	Geometric analysis of macronutrient selection in breeds of the domestic dog, Canis lupus familiaris. *Behavioral Ecology*, **2013**, 24, 293-304	2.3	74
195	A correlation between macronutrient balancing and insect host-plant range: evidence from the specialist caterpillar Spodoptera exempta (Walker). *Journal of Insect Physiology*, **2003**, 49, 1161-71	2.4	74
194	Dietary protein, aging and nutritional geometry. *Ageing Research Reviews*, **2017**, 39, 78-86	12	72
193	Dietary balance during pregnancy is associated with fetal adiposity and fat distribution. *American Journal of Clinical Nutrition*, **2012**, 96, 1032-41	7	71
192	Nutritional ecology beyond the individual: a conceptual framework for integrating nutrition and social interactions. *Ecology Letters*, **2015**, 18, 273-86	10	69
191	Predicting the distributions of predator (snow leopard) and prey (blue sheep) under climate change in the Himalaya. *Ecology and Evolution*, **2016**, 6, 4065-75	2.8	67
190	Moving beyond body condition indices as an estimate of fitness in ecological and evolutionary studies. *Functional Ecology*, **2016**, 30, 108-115	5.6	66
189	30 days in the life: daily nutrient balancing in a wild chacma baboon. *PLoS ONE*, **2013**, 8, e70383	3.7	65
188	Nutritional strategies to optimise cognitive function in the aging brain. *Ageing Research Reviews*, **2016**, 31, 80-92	12	64
187	Human□carnivore conflict: ecological and economical sustainability of predation on livestock by snow leopard and other carnivores in the Himalaya. *Sustainability Science*, **2014**, 9, 321-329	6.4	64
186	Nutrient regulation in a predator, the wolf spider Pardosa prativaga. *Animal Behaviour*, **2011**, 81, 993-999	2.8	61
185	Nutritional PharmEcology: Doses, nutrients, toxins, and medicines. *Integrative and Comparative Biology*, **2009**, 49, 329-37	2.8	60
184	Sex differences in nutrient-dependent reproductive ageing. *Aging Cell*, **2009**, 8, 324-30	9.9	59
183	Frequency-dependent food selection in locusts: a geometric analysis of the role of nutrient balancing. *Animal Behaviour*, **2001**, 61, 995-1005	2.8	59
182	Nutritional ecology of obesity: from humans to companion animals. *British Journal of Nutrition*, **2015**, 113 Suppl, S26-39	3.6	58

181	Bridging Ecological Stoichiometry and Nutritional Geometry with homeostasis concepts and integrative models of organism nutrition. *Functional Ecology*, **2017**, 31, 286-296	5.6	58
180	Fetal and neonatal pathways to obesity. *Frontiers of Hormone Research*, **2008**, 36, 61-72	3.5	58
179	Geometry of nutrition in field studies: an illustration using wild primates. *Oecologia*, **2015**, 177, 223-34	2.9	57
178	Do wild carnivores forage for prey or for nutrients? Evidence for nutrient-specific foraging in vertebrate predators. *BioEssays*, **2015**, 37, 701-9	4.1	57
177	Cognitive and behavioral evaluation of nutritional interventions in rodent models of brain aging and dementia. *Clinical Interventions in Aging*, **2017**, 12, 1419-1428	4	57
176	A comparison of nutrient regulation between solitarious and gregarious phases of the specialist caterpillar, Spodoptera exempta (Walker). *Journal of Insect Physiology*, **2004**, 50, 1171-80	2.4	57
175	Comparing the Effects of Low-Protein and High-Carbohydrate Diets and Caloric Restriction on Brain Aging in Mice. *Cell Reports*, **2018**, 25, 2234-2243.e6	10.6	57
174	The emerging role of pharmacology in understanding consumer-prey interactions in marine and freshwater systems. *Integrative and Comparative Biology*, **2009**, 49, 291-313	2.8	55
173	A new approach to diet optimisation: A re-analysis using European whitefish (Coregonus lavaretus). *Aquaculture*, **2007**, 267, 147-156	4.4	55
172	Macronutrients mediate the functional relationship between Drosophila and Wolbachia. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142029	4.4	51
171	The nature of nutrition: a unifying framework. *Australian Journal of Zoology*, **2011**, 59, 350	0.5	50
170	Protein Leverage: Theoretical Foundations and Ten Points of Clarification. *Obesity*, **2019**, 27, 1225-1238	8	47
169	Sardine cycles, krill declines, and locust plagues: revisiting 'wasp-waist' food webs. *Trends in Ecology and Evolution*, **2014**, 29, 309-16	10.9	47
168	Effects of dietary protein to carbohydrate balance on energy intake, fat storage, and heat production in mice. *Obesity*, **2013**, 21, 85-92	8	47
167	New Horizons: Dietary protein, ageing and the Okinawan ratio. *Age and Ageing*, **2016**, 45, 443-7	3	47
166	Food distance and its effect on nutrient balancing in a mobile insect herbivore. *Animal Behaviour*, **2003**, 66, 665-675	2.8	46
165	Temperature-related variation in growth rate, size, maturation and life span in a marine herbivorous fish over a latitudinal gradient. *Journal of Animal Ecology*, **2014**, 83, 866-75	4.7	45
164	Bridging factorial and gradient concepts of resource co-limitation: towards a general framework applied to consumers. *Ecology Letters*, **2016**, 19, 201-215	10	44

163	Long-term declines in nutritional quality of tropical leaves. *Ecology*, **2015**, 96, 873-8	4.6	42
162	Blue sheep in the Annapurna Conservation Area, Nepal: habitat use, population biomass and their contribution to the carrying capacity of snow leopards. *Integrative Zoology*, **2014**, 9, 34-45	1.9	41
161	Ultra-processed foods, protein leverage and energy intake in the USA. *Public Health Nutrition*, **2018**, 21, 114-124	3.3	39
160	Behavioral Microbiomics: A Multi-Dimensional Approach to Microbial Influence on Behavior. *Frontiers in Microbiology*, **2015**, 6, 1359	5.7	39
159	Ontogenetic changes in the rate of ingestion and estimates of food consumption in fourth and fifth instar Helicoverpa armigera caterpillars. *Journal of Insect Physiology*, **2003**, 49, 63-71	2.4	39
158	Nutritional ecology and foraging theory. *Current Opinion in Insect Science*, **2018**, 27, 38-45	5.1	37
157	The Geometric Framework for Nutrition as a tool in precision medicine. *Nutrition and Healthy Aging*, **2017**, 4, 217-226	1.3	37
156	Nutritional correlates of the "lean season": effects of seasonality and frugivory on the nutritional ecology of diademed sifakas. *American Journal of Physical Anthropology*, **2014**, 153, 78-91	2.5	37
155	Modeling time series of animal behavior by means of a latent-state model with feedback. *Biometrics*, **2008**, 64, 807-815	1.8	37
154	THE GEOMETRIC ANALYSIS OF NUTRIENT–ALLELOCHEMICAL INTERACTIONS: A CASE STUDY USING LOCUSTS. *Ecology*, **2001**, 82, 422-439	4.6	37
153	Modelling nutrition across organizational levels: from individuals to superorganisms. *Journal of Insect Physiology*, **2014**, 69, 2-11	2.4	35
152	Dietary protein selection in a free-ranging urban population of common myna birds. *Behavioral Ecology*, **2016**, 27, 219-227	2.3	34
151	Multipronged strategy including genetic analysis for assessing conservation options for the snow leopard in the central Himalaya. *Journal of Mammalogy*, **2014**, 95, 871-881	1.8	34
150	Nutritional geometry and macronutrient variation in the diets of gannets: the challenges in marine field studies. *Marine Biology*, **2014**, 161, 2791-2801	2.5	34
149	An Overlooked Consequence of Dietary Mixing: A Varied Diet Reduces Interindividual Variance in Fitness. *American Naturalist*, **2015**, 186, 649-59	3.7	33
148	Three hundred and fifty generations of extreme food specialisation: testing predictions of nutritional ecology. *Entomologia Experimentalis Et Applicata*, **2009**, 132, 65-75	2.1	31
147	Free amino acids as phagostimulants in cricket nuptial gifts: support for the 'Candymaker' hypothesis. *Biology Letters*, **2009**, 5, 194-6	3.6	31
146	Meta-analysis of variance: an illustration comparing the effects of two dietary interventions on variability in weight. *Evolution, Medicine and Public Health*, **2016**, 2016, 244-55	3	31

145	Multidimensional nutritional ecology and urban birds. *Ecosphere*, **2018**, 9, e02177	3.1	30
144	Testing the Protein Leverage Hypothesis in a free-living human population. *Appetite*, **2012**, 59, 312-5	4.5	30
143	The feeding behavior of the weevil, Exophthalmus jekelianus, with respect to the nutrients and allelochemicals in host plant leaves. *Oikos*, **2003**, 100, 172-184	4	30
142	Giant Pandas Are Macronutritional Carnivores. *Current Biology*, **2019**, 29, 1677-1682.e2	6.3	29
141	VetCompass Australia: A National Big Data Collection System for Veterinary Science. *Animals*, **2017**, 7,	3.1	29
140	Dietary macronutrients and the aging liver sinusoidal endothelial cell. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H1064-70	5.2	29
139	Collective foraging in spatially complex nutritional environments. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	29
138	Sex-specific macronutrient foraging strategies in a highly successful marine predator: the Australasian gannet. *Marine Biology*, **2016**, 163, 1	2.5	28
137	Visual accommodation and active pursuit of prey underwater in a plunge-diving bird: the Australasian gannet. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 4118-25	4.4	28
136	The Nutritional Balancing Act of a Large Herbivore: An Experiment with Captive Moose (Alces alces L). *PLoS ONE*, **2016**, 11, e0150870	3.7	28
135	Consistent proportional macronutrient intake selected by adult domestic cats (Felis catus) despite variations in macronutrient and moisture content of foods offered. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2013**, 183, 525-36	2.2	27
134	The Influence of Macronutrients on Splanchnic and Hepatic Lymphocytes in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 1499-507	6.4	27
133	Perspective: Tricks of the trade. *Nature*, **2014**, 508, S66	50.4	27
132	Conservation Strategy for Brown Bear and Its Habitat in Nepal. *Diversity*, **2012**, 4, 301-317	2.5	27
131	Macronutrient contributions of insects to the diets of hunter-gatherers: a geometric analysis. *Journal of Human Evolution*, **2014**, 71, 70-6	3.1	26
130	The contribution of private and public information in foraging by Australasian gannets. *Animal Cognition*, **2014**, 17, 849-58	3.1	26
129	Prey nutrient composition has different effects on Pardosa wolf spiders with dissimilar life histories. *Oecologia*, **2011**, 165, 577-83	2.9	26
128	Nutritional ecology and the evolution of aging. *Experimental Gerontology*, **2016**, 86, 50-61	4.5	26

127	Nutrient-specific compensation for seasonal cold stress in a free-ranging temperate colobine monkey. *Functional Ecology*, **2018**, 32, 2170-2180	5.6	24
126	Distribution and diet of brown bears in the upper Mustang Region, Nepal. *Ursus*, **2012**, 23, 231-236	1.4	24
125	Evidence for fatal collisions and kleptoparasitism while plunge-diving in Gannets. *Ibis*, **2011**, 153, 631-635	1.9	24
124	Dietary ratio of protein to carbohydrate induces plastic responses in the gastrointestinal tract of mice. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2010**, 180, 259-66	2.2	24
123	Cyanoglycoside gynocardin fromAcraea horta (L.) (Lepidoptera: Acraeinae) : Possible implications for evolution of acraeine host choice. *Journal of Chemical Ecology*, **1989**, 15, 2177-89	2.7	24
122	Evolving nutritional strategies in the presence of competition: a geometric agent-based model. *PLoS Computational Biology*, **2015**, 11, e1004111	5	23
121	Lower Protein-to-Carbohydrate Ratio in Maternal Diet is Associated with Higher Childhood Systolic Blood Pressure up to Age Four Years. *Nutrients*, **2015**, 7, 3078-93	6.7	22
120	Macronutritional consequences of food generalism in an invasive mammal, the wild boar. *Mammalian Biology*, **2016**, 81, 523-526	1.6	22
119	Raised FGF-21 and Triglycerides Accompany Increased Energy Intake Driven by Protein Leverage in Lean, Healthy Individuals: A Randomised Trial. *PLoS ONE*, **2016**, 11, e0161003	3.7	22
118	Diet and nutrient balance of red panda in Nepal. *Die Naturwissenschaften*, **2015**, 102, 54	2	21
117	Separate effects of macronutrient concentration and balance on plastic gut responses in locusts. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2007**, 177, 849-55	2.2	21
116	The Nutritional Ecology of Marine Apex Predators. *Annual Review of Marine Science*, **2020**, 12, 361-387	15.4	21
115	Strong associations of nine-point body condition scoring with survival and lifespan in cats. *Journal of Feline Medicine and Surgery*, **2018**, 20, 1110-1118	2.3	20
114	The nutritional nexus: Linking niche, habitat variability and prey composition in a generalist marine predator. *Journal of Animal Ecology*, **2018**, 87, 1286-1298	4.7	20
113	Patterns of respiration in Locusta migratoria nymphs when feeding. *Physiological Entomology*, **2000** , 25, 88-93	1.9	20
112	Motive for Killing: What Drives Prey Choice in Wild Predators?. *Ethology*, **2016**, 122, 703-711	1.7	20
111	Functional macronutritional generalism in a large omnivore, the brown bear. *Ecology and Evolution*, **2018**, 8, 2365-2376	2.8	19
110	Macronutrient signature of dietary generalism in an ecologically diverse primate in the wild. *Behavioral Ecology*, **2018**, 29, 804-813	2.3	19

109	Foods, macronutrients and fibre in the diet of blue sheep (Psuedois nayaur) in the Annapurna Conservation Area of Nepal. *Ecology and Evolution*, **2015**, 5, 4006-17	2.8	19
108	The association between the macronutrient content of maternal diet and the adequacy of micronutrients during pregnancy in the Women and Their Children's Health (WATCH) study. *Nutrients*, **2012**, 4, 1958-76	6.7	19
107	Habitat assessment for the translocation of blue sheep to maintain a viable snow leopard population in the Mt Everest Region, Nepal. *Zoology and Ecology*, **2013**, 23, 66-82	0.2	19
106	UVS is rare in seabirds. *Vision Research*, **2011**, 51, 1333-7	2.1	19
105	Hidden Markov Models and Animal Behaviour. *Biometrical Journal*, **1995**, 37, 701-712	1.5	19
104	Functional implications of omnivory for dietary nutrient balance. *Oikos*, **2016**, 125, 1233-1240	4	19
103	The nutritional geometry of liver disease including non-alcoholic fatty liver disease. *Journal of Hepatology*, **2018**, 68, 316-325	13.4	19
102	Macronutrient balancing affects patch departure by guerezas (Colobus guereza). *American Journal of Primatology*, **2017**, 79, 1-9	2.5	18
101	Changes in Meat/Poultry/Fish Consumption in Australia: From 1995 to 2011-2012. *Nutrients*, **2016**, 8,	6.7	18
100	Might macronutrient requirements influence grizzly bear–human conflict? Insights from nutritional geometry. *Ecosphere*, **2016**, 7, e01204	3.1	18
99	Coupling bio-logging with nutritional geometry to reveal novel insights into the foraging behaviour of a plunge-diving marine predator. *New Zealand Journal of Marine and Freshwater Research*, **2016**, 50, 418-432	1.3	18
98	Balancing macronutrient intake in a mammalian carnivore: disentangling the influences of flavour and nutrition. *Royal Society Open Science*, **2016**, 3, 160081	3.3	17
97	A nutritional perspective on plastic ingestion in wildlife. *Science of the Total Environment*, **2019**, 656, 789-796	10.2	17
96	Developmental contributions to macronutrient selection: a randomized controlled trial in adult survivors of malnutrition. *Evolution, Medicine and Public Health*, **2016**, 2016, 158-69	3	16
95	A geometry of regulatory scaling. *American Naturalist*, **2008**, 172, 681-93	3.7	16
94	Feeding preferences of the Asian elephant (Elephas maximus) in Nepal. *BMC Ecology*, **2016**, 16, 54	2.7	16
93	Population variance in prey, diets and their macronutrient composition in an endangered marine predator, the Franciscana dolphin. *Journal of Sea Research*, **2017**, 129, 70-79	1.9	15
92	Dietary generalists and nutritional specialists: Feeding strategies of adult female blue monkeys (Cercopithecus mitis) in the Kakamega Forest, Kenya. *American Journal of Primatology*, **2019**, 81, e23016	2.5	15

91	Foraging behaviour and habitat use of chick-rearing Australasian Gannets in New Zealand. *Journal of Ornithology*, **2014**, 155, 379-387	1.5	15
90	Nutrient-specific compensatory feeding in a mammalian carnivore, the mink, Neovison vison. *British Journal of Nutrition*, **2014**, 112, 1226-33	3.6	15
89	Regulation of nutrient intake in nectar-feeding birds: insights from the geometric framework. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 603-11	2.2	15
88	Nutrient-Specific Learning in an Omnivorous Insect: The American Cockroach Periplaneta americana L. Learns to Associate Dietary Protein with the Odors Citral and Carvone. *Journal of Insect Behavior*, **2000**, 13, 851-864	1.1	15
87	Balancing macronutrient intake in cultured Lytechinus variegatus. *Aquaculture*, **2016**, 450, 295-300	4.4	14
86	Nutrition and Diet Choice **2012**, 150-182		14
85	Separating food and water deprivation in locusts: effects on the patterns of consumption, locomotion and growth. *Physiological Entomology*, **1996**, 21, 76-84	1.9	14
84	Population and individual polyphagy in the grasshopper Taeniopoda eques during natural foraging. *Entomologia Experimentalis Et Applicata*, **1994**, 71, 167-176	2.1	14
83	Spider web and silk performance landscapes across nutrient space. *Scientific Reports*, **2016**, 6, 26383	4.9	14
82	Dietary macronutrient content, age-specific mortality and lifespan. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20190393	4.4	13
81	The Relationship Between Dietary Macronutrients and Hepatic Telomere Length in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 446-449	6.4	13
80	Risk factors for underweight and overweight in cats in metropolitan Sydney, Australia. *Preventive Veterinary Medicine*, **2017**, 144, 102-111	3.1	13
79	Cardio-metabolic consequences of dietary carbohydrates: reconciling contradictions using nutritional geometry. *Cardiovascular Research*, **2021**, 117, 386-401	9.9	13
78	Exploratory analysis of meal composition in Australia: meat and accompanying foods. *Public Health Nutrition*, **2017**, 20, 2157-2165	3.3	12
77	Tolerance for nutrient imbalance in an intermittently feeding herbivorous cricket, the Wellington tree weta. *PLoS ONE*, **2013**, 8, e84641	3.7	12
76	Biological Diversity and Management Regimes of the Northern Barandabhar Forest Corridor: An Essential Habitat for Ecological Connectivity in Nepal. *Tropical Conservation Science*, **2012**, 5, 38-49	1.4	12
75	Social Network Analysis and Nutritional Behavior: An Integrated Modeling Approach. *Frontiers in Psychology*, **2016**, 7, 18	3.4	12
74	An assessment of the influence of macronutrients on growth performance and nutrient utilisation in broiler chickens by nutritional geometry. *British Journal of Nutrition*, **2016**, 116, 2129-2138	3.6	12

73	Balancing Wildlife and Human Needs: The Protected Forest Approach in Nepal. *Natural Areas Journal*, **2014**, 34, 376-380	0.8	11
72	Effects of temperature on macronutrient selection, metabolic and swimming performance of the Indo-Pacific Damselfish (Abudefduf vaigiensis). *Marine Biology*, **2018**, 165, 1	2.5	11
71	Habitat, diet, macronutrient, and fiber balance of Himalayan marmot (Marmota himalayana) in the Central Himalaya, Nepal. *Journal of Mammalogy*, **2015**, 96, 308-316	1.8	10
70	Long-term Dietary Macronutrients and Hepatic Gene Expression in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 1618-1625	6.4	10
69	Tasting novel foods and selecting nutrient content in a highly successful ecological invader, the common myna. *Journal of Avian Biology*, **2017**, 48, 1432-1440	1.9	10
68	Habitat selection and feeding ecology of dhole (Cuon alpinus) in the Himalayas. *Journal of Mammalogy*, **2015**, 96, 47-53	1.8	10
67	Nutritional ecology, functional ecology and Functional Ecology. *Functional Ecology*, **2009**, 23, 1-3	5.6	10
66	Sex-specific differences in nitrogen intake and investment by feral and laboratory-cultured cockroaches. *Journal of Insect Physiology*, **2000**, 46, 677-684	2.4	10
65	Impact of dietary carbohydrate type and protein-carbohydrate interaction on metabolic health. *Nature Metabolism*, **2021**, 3, 810-828	14.6	10
64	Rangelands, Conflicts, and Society in the Upper Mustang Region, Nepal. *Mountain Research and Development*, **2013**, 33, 11-18	1.4	9
63	Growth performance, nutrient utilisation and carcass composition respond to dietary protein concentrations in broiler chickens but responses are modified by dietary lipid levels. *British Journal of Nutrition*, **2017**, 118, 250-262	3.6	9
62	The evolution of biological stoichiometry under global change. *Oikos*, **2010**, 119, 737-740	4	9
61	Minerals in the foods eaten by mountain gorillas (Gorilla beringei). *PLoS ONE*, **2014**, 9, e112117	3.7	9
60	Applying the Behavioural Change Wheel to Encourage Higher Welfare Food Choices. *Animals*, **2019**, 9,	3.1	8
59	Dietary diversity of an ecological and macronutritional generalist primate in a harsh high-latitude habitat, the Taihangshan macaque (Macaca mulatta tcheliensis). *American Journal of Primatology*, **2019**, 81, e22965	2.5	8
58	Macronutrient and Energy Contributions of Insects to the Diet of a Frugivorous Monkey (Cercopithecus ascanius). *International Journal of Primatology*, **2015**, 36, 839-854	2	8
57	Design and testing of foods differing in protein to energy ratios. *Appetite*, **2010**, 55, 367-70	4.5	8
56	Adaptive collective foraging in groups with conflicting nutritional needs. *Royal Society Open Science* , **2016**, 3, 150638	3.3	8

55	New insights into the association of mid-childhood macronutrient intake to pubertal development in adolescence using nutritional geometry. *British Journal of Nutrition*, **2019**, 122, 274-283	3.6	7
54	Evidence for Protein Leverage in Children and Adolescents with Obesity. *Obesity*, **2020**, 28, 822-829	8	7
53	Foraging for carotenoids: do colorful male hihi target carotenoid-rich foods in the wild?. *Behavioral Ecology*, **2014**, 25, 1048-1057	2.3	7
52	The nutritional basis of seasonal selective feeding by a marine herbivorous fish. *Marine Biology*, **2017**, 164, 1	2.5	7
51	Diet and Habitat use of Hispid HareCaprolagus hispidusin Shuklaphanta Wildlife Reserve, Nepal. *Mammal Study*, **2012**, 37, 147-154	0.6	7
50	Divergent nutrition-related adaptations in two cockroach populations inhabiting different environments. *Physiological Entomology*, **2002**, 27, 330-339	1.9	7
49	The Effects of Dietary Macronutrient Balance on Skin Structure in Aging Male and Female Mice. *PLoS ONE*, **2016**, 11, e0166175	3.7	7
48	Geometric Stoichiometry: Unifying Concepts of Animal Nutrition to Understand How Protein-Rich Diets Can Be Too Much of a Good Thing *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	7
47	Macronutrient intakes and the lifespan-fecundity trade-off: a geometric framework agent-based model. *Journal of the Royal Society Interface*, **2019**, 16, 20180733	4.1	6
46	Three-dimensional diet regulation and the consequences of choice for weight and activity level of a marsupial carnivore. *Journal of Mammalogy*, **2016**, 97, 1645-1651	1.8	6
45	Genetic identification of carnivore scat: implication of dietary information for human carnivore conflict in the Annapurna Conservation Area, Nepal. *Zoology and Ecology*, **2012**, 22, 137-143	0.2	6
44	The feeding behaviour of Schistocerca gregaria, the desert locust, on two starch mutants of Arabidopsis thaliana. *Chemoecology*, **2000**, 10, 59-67	2	6
43	Nutritional reprogramming of mouse liver proteome is dampened by metformin, resveratrol, and rapamycin. *Cell Metabolism*, **2021**, 33, 2367-2379.e4	24.6	6
42	The power of protein. *American Journal of Clinical Nutrition*, **2020**, 112, 6-7	7	5
41	Multifactorial roles of interannual variability, season, and sex for foraging patterns in a sexually size monomorphic seabird, the Australasian gannet (Morus serrator). *Marine Biology*, **2018**, 165, 1	2.5	5
40	Australian Consumers Knowledge and Concern for Animal Welfare in Food Production: Influences on Purchasing Intentions. *Society and Animals*, **2019**, 1-28	0.5	5
39	Cold and hungry: combined effects of low temperature and resource scarcity on an edge-of-range temperate primate, the golden snub-nose monkey. *Ecography*, **2020**, 43, 1672-1682	6.5	5
38	Some problems with translating the insulating effect of obesity from mice to men. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 311, E638	6	5

37	Hematology and serum biochemistry reference ranges of healthy captive Tasmanian devils (Sarcophilus harrisii) and their association with age, gender and seasonal variation. *Mammalian Biology*, **2016**, 81, 393-398	1.6	5
36	Demographics Regarding Belief in Non-Human Animal Sentience and Emotional Empathy with Animals: A Pilot Study among Attendees of an Animal Welfare Symposium. *Animals*, **2018**, 8,	3.1	5
35	Successive Generations in a Rat Model Respond Differently to a Constant Obesogenic Environment. *PLoS ONE*, **2015**, 10, e0129779	3.7	4
34	Effect of ingestion on the stable isotope signatures of marine herbivorous fish diets. *Journal of Experimental Marine Biology and Ecology*, **2012**, 438, 137-143	2.1	4
33	Living near the limits: Effects of interannual variation in food availability on diet and reproduction in a temperate primate, the Taihangshan macaque (Macaca mulatta tcheliensis). *American Journal of Primatology*, **2020**, 82, e23080	2.5	4
32	Global associations between macronutrient supply and age-specific mortality. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30824-30835	11.5	4
31	Nutrient Balancing by Captive Golden Snub-Nosed Monkeys (Rhinopithecus roxellana). *International Journal of Primatology*, **2018**, 39, 1124-1138	2	4
30	Maternal Dietary Fatty Acid Composition and Newborn Epigenetic Aging-A Geometric Framework Approach. *American Journal of Clinical Nutrition*, **2021**,	7	4
29	Sucrose and starch intake contribute to reduced alveolar bone height in a rodent model of naturally occurring periodontitis. *PLoS ONE*, **2019**, 14, e0212796	3.7	3
28	Dispersal and ranging patterns of the Asian Elephant (Elephas maximus) in relation to their interactions with humans in Nepal. *Ethology Ecology and Evolution*, **2015**, 1-12	0.7	3
27	Integrating nutritional and behavioral ecology: Mutual benefits and new frontiers. *Advances in the Study of Behavior*, **2020**, 29-63	3.4	3
26	The Nutritional Geometry of Aging **2010**, 111-122		3
25	Gynocardin from the Leaves of Kiggelaria africana. *Journal of Natural Products*, **1988**, 51, 779	4.9	3
24	Obesity and Male Reproduction; Placing the Western Diet in Context. *Frontiers in Endocrinology*, **2021**, 12, 622292	5.7	3
23	Reindeer Ewenki's fading culture. *Science*, **2015**, 347, 957	33.3	2
22	Nutritional Physiology: Sex Elicits a Taste for Salt in Drosophila. *Current Biology*, **2015**, 25, R980-2	6.3	2
21	Dietary protein supplementation and its consequences for intake, digestion, and physical activity of a carnivorous marsupial,. *Ecology and Evolution*, **2018**, 8, 3636-3647	2.8	2
20	Temperate marine herbivorous fishes will likely do worse, not better, as waters warm up. *Marine Biology*, **2016**, 163, 1	2.5	2

19	Conspecific attraction in invasive wild house mice: Effects of strain, sex and diet. *Applied Animal Behaviour Science*, **2013**, 147, 186-193	2.2	2
18	Laboratory rats as conspecific biocontrol agents for invasive Norway rats R. norvegicus. *Biological Control*, **2013**, 66, 83-91	3.8	2
17	Nutritional geometry of female chimpanzees (Pan troglodytes). *American Journal of Primatology*, **2021**, 83, e23269	2.5	2
16	The geometry of resource constraint: An empirical study of the golden snub-nosed monkey. *Journal of Animal Ecology*, **2021**, 90, 751-765	4.7	2
15	Macronutrient balancing in free-ranging populations of moose. *Ecology and Evolution*, **2021**, 11, 11223-11240	2.4	2
14	Does temperature constrain diet choice in a marine herbivorous fish?. *Marine Biology*, **2020**, 167, 1	2.5	1
13	A randomised clinical trial to investigate the effect of dietary protein sources on periodontal health.. *Journal of Clinical Periodontology*, **2021**,	7.7	1
12	HERBIVORE FORAGING IN CHEMICALLY HETEROGENEOUS ENVIRONMENTS: NUTRIENTS AND SECONDARY METABOLITES **2002**, 83, 2489		1
11	The effects of age, sex and season on the macronutrient composition of the diet of the domestic Asian elephant. *Journal of Applied Animal Research*, **2019**, 47, 5-16	1.7	1
10	Naringin Promotes Skeletal Muscle Fiber Remodeling by the AdipoR1-APPL1-AMPK Signaling Pathway. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 11890-11899	5.7	1
9	Association between the Urinary Sodium to Potassium Ratio and Blood Pressure in Adults: A Systematic Review and Meta-Analysis. *Advances in Nutrition*, **2021**, 12, 1751-1767	10	0
8	Daily protein prioritization and long-term nutrient balancing in a dietary generalist, the blue monkey. *Behavioral Ecology*, **2021**, 32, 223-235	2.3	0
7	Firstborn sex defines early childhood growth of subsequent siblings. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20202329	4.4	0
6	Ecology, Protein Leverage, and Public Health **2022**, 72-88		0
5	An integrative approach to dietary balance across the life course. *IScience*, **2022**, 104315	6.1	0
4	Nutritional status and functional digestive histology of the carnivorous Tasmanian devil (Sarcophilus harrisii). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2017**, 205, 1-7	2.6	
3	Leaf miners on Ochna ciliata (Ochnaceae) growing on Aldabra Atoll: patterns of herbivory in relation to goat browsing and exposure to the sun. *Ecological Entomology*, **1993**, 18, 332-338	2.1	
2	Nutritional Ecology and Human Health **2020**, 39-55		

1 Modeling nutrition and brain aging in rodents **2021**, 517-526