Stephen J Simpson

List of Publications by Year
in descending order

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332	29,190	3325 91	7718 150
papers	citations	h-index	g-index

342	342	342	19569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Threats to an ecosystem service: pressures on pollinators. Frontiers in Ecology and the Environment, 2013, 11, 251-259.	1.9	980
2	From Disorder to Order in Marching Locusts. Science, 2006, 312, 1402-1406.	6.0	910
3	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, 2498-2503.	3.3	887
4	The Ratio of Macronutrients, Not Caloric Intake, Dictates Cardiometabolic Health, Aging, and Longevity in Ad Libitum-Fed Mice. Cell Metabolism, 2014, 19, 418-430.	7.2	768
5	Obesity: the protein leverage hypothesis. Obesity Reviews, 2005, 6, 133-142.	3.1	485
6	Optimal foraging when regulating intake of multiple nutrients. Animal Behaviour, 2004, 68, 1299-1311.	0.8	480
7	Sex-Specific Fitness Effects of Nutrient Intake on Reproduction and Lifespan. Current Biology, 2008, 18, 1062-1066.	1.8	408
8	Nutrient-Specific Foraging in Invertebrate Predators. Science, 2005, 307, 111-113.	6.0	396
9	Locust Phase Polyphenism: An Update. Advances in Insect Physiology, 2009, , 1-272.	1.1	387
10	Integrative models of nutrient balancing: application to insects and vertebrates. Nutrition Research Reviews, 1997, 10, 151-179.	2.1	374
11	Towards a new developmental synthesis: adaptive developmental plasticity and human disease. Lancet, The, 2009, 373, 1654-1657.	6.3	368
12	Serotonin Mediates Behavioral Gregarization Underlying Swarm Formation in Desert Locusts. Science, 2009, 323, 627-630.	6.0	338
13	Flexible diet choice offsets protein costs of pathogen resistance in a caterpillar. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 823-829.	1.2	328
14	Polyphenism in Insects. Current Biology, 2011, 21, R738-R749.	1.8	320
15	Coping with crowds: Density-dependent disease resistance in desert locusts. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5471-5475.	3.3	278
16	Evaluation of potential reference genes for reverse transcription-qPCR studies of physiological responses in Drosophila melanogaster. Journal of Insect Physiology, 2011, 57, 840-850.	0.9	276
17	Cannibal crickets on a forced march for protein and salt. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4152-4156.	3.3	273
18	Protein content of diets dictates the daily energy intake of a free-ranging primate. Behavioral Ecology, 2009, 20, 685-690.	1.0	266

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19	Modelling the ecological niche from functional traits. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3469-3483.	1.8	262
20	Collective Motion and Cannibalism in Locust Migratory Bands. Current Biology, 2008, 18, 735-739.	1.8	255
21	Macronutrient balance mediates tradeâ€offs between immune function and life history traits. Functional Ecology, 2011, 25, 186-198.	1.7	254
22	Compensation by locusts for changes in dietary nutrients: behavioural mechanisms. Physiological Entomology, 1985, 10, 443-452.	0.6	250
23	A behavioural analysis of phase change in the desert locust. Biological Reviews, 1999, 74, 461-480.	4.7	249
24	Communal Nutrition in Ants. Current Biology, 2009, 19, 740-744.	1.8	243
25	Nutrient balancing in grasshoppers: behavioural and physiological correlates of dietary breadth. Journal of Experimental Biology, 2003, 206, 1669-1681.	0.8	238
26	Dietary proteinâ€quality influences melanization and immune function in an insect. Functional Ecology, 2008, 22, 1052-1061.	1.7	227
27	Branched-chain amino acids impact health and lifespan indirectly via amino acid balance and appetite control. Nature Metabolism, 2019, 1, 532-545.	5.1	207
28	Amoeboid organism solves complex nutritional challenges. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4607-4611.	3.3	204
29	Gregarious behavior in desert locusts is evoked by touching their back legs. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3895-3897.	3.3	194
30	Can the protein costs of bacterial resistance be offset by altered feeding behaviour?. Journal of Animal Ecology, 2009, 78, 437-446.	1.3	194
31	Testing Protein Leverage in Lean Humans: A Randomised Controlled Experimental Study. PLoS ONE, 2011, 6, e25929.	1.1	194
32	Macronutrient balance, reproductive function, and lifespan in aging mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3481-3486.	3.3	194
33	Sensory-specific satiety: Food-specific reduction in responsiveness of ventral forebrain neurons after feeding in the monkey. Brain Research, 1986, 368, 79-86.	1.1	186
34	Geometric analysis of macronutrient intake in humans: the power of protein?. Appetite, 2003, 41, 123-140.	1.8	183
35	Nutrients, not caloric restriction, extend lifespan in Queensland fruit flies (<i>Bactrocera) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.0	180
36	Optimal foraging for specific nutrients in predatory beetles. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2212-2218.	1.2	176

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37	Proteinâ€leverage in Mice: The Geometry of Macronutrient Balancing and Consequences for Fat Deposition. Obesity, 2008, 16, 566-571.	1.5	169
38	Dietary Protein to Carbohydrate Ratio and Caloric Restriction: Comparing Metabolic Outcomes in Mice. Cell Reports, 2015, 11, 1529-1534.	2.9	169
39	Putting the Balance Back in Diet. Cell, 2015, 161, 18-23.	13.5	165
40	Defining the Nutritional and Metabolic Context of FGF21ÂUsing the Geometric Framework. Cell Metabolism, 2016, 24, 555-565.	7.2	164
41	The impact of low-protein high-carbohydrate diets on aging and lifespan. Cellular and Molecular Life Sciences, 2016, 73, 1237-1252.	2.4	164
42	Dietary Restriction and Aging: A Unifying Perspective. Cell Metabolism, 2011, 14, 154-160.	7.2	162
43	Gut Microbiota Modifies Olfactory-Guided Microbial Preferences and Foraging Decisions in Drosophila. Current Biology, 2017, 27, 2397-2404.e4.	1.8	156
44	Mechanosensory-induced behavioural gregarization in the desert locust Schistocerca gregaria. Journal of Experimental Biology, 2003, 206, 3991-4002.	0.8	155
45	Protein leverage and energy intake. Obesity Reviews, 2014, 15, 183-191.	3.1	155
46	Animal and translational models of SARS-CoV-2 infection and COVID-19. Mucosal Immunology, 2020, 13, 877-891.	2.7	155
47	A geometric analysis of nutrient regulation in the generalist caterpillar Spodoptera littoralis (Boisduval). Journal of Insect Physiology, 2002, 48, 655-665.	0.9	149
48	Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. Cell Metabolism, 2017, 25, 140-151.	7.2	148
49	Macronutrient balance and lifespan. Aging, 2009, 1, 875-880.	1.4	147
50	HERBIVORE FORAGING IN CHEMICALLY HETEROGENEOUS ENVIRONMENTS: NUTRIENTS AND SECONDARY METABOLITES. Ecology, 2002, 83, 2489-2501.	1.5	143
51	Match and mismatch: conservation physiology, nutritional ecology and the timescales of biological adaptation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1628-1646.	1.8	143
52	FGF21 Signals Protein Status to the Brain and Adaptively Regulates Food Choice and Metabolism. Cell Reports, 2019, 27, 2934-2947.e3.	2.9	143
53	Densityâ€“dependent aposematism in the desert locust. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 63-68.	1.2	140
54	The Geometric Analysis of Nutrient-Allelochemical Interactions: A Case Study Using Locusts. Ecology, 2001, 82, 422.	1.5	137

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55	The central role of the haemolymph in the regulation of nutrient intake in insects. Physiological Entomology, 1993, 18, 395-403.	0.6	137
56	Matching Dietary Amino Acid Balance to the In Silico-Translated Exome Optimizes Growth and Reproduction without Cost to Lifespan. Cell Metabolism, 2017, 25, 610-621.	7.2	137
57	Nutritional Immunology: A Multi-Dimensional Approach. PLoS Pathogens, 2011, 7, e1002223.	2.1	136
58	Nutritional Ecology and Human Health. Annual Review of Nutrition, 2016, 36, 603-626.	4.3	135
59	The regulation of growth by locusts through postâ€ingestive compensation for variation in the levels of dietary protein and carbohydrate. Physiological Entomology, 1993, 18, 425-434.	0.6	134
60	Nutritional balance of essential amino acids and carbohydrates of the adult worker honeybee depends on age. Amino Acids, 2014, 46, 1449-1458.	1.2	129
61	Attraction and repulsion of the aphid,Cavariella aegopodii, by Plant Odors. Journal of Chemical Ecology, 1981, 7, 881-888.	0.9	128
62	Evolving resistance to obesity in an insect. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14045-14049.	3.3	128
63	Geometric analysis of macronutrient selection in the adult domestic cat, Felis catus. Journal of Experimental Biology, 2011, 214, 1039-1051.	0.8	127
64	Spatial scales of desert locust gregarization. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13052-13055.	3.3	126
65	Gross vs. net income: How plant toughness affects performance of an insect herbivore. Ecology, 2009, 90, 3393-3405.	1.5	126
66	Integrating nutrition and immunology: A new frontier. Journal of Insect Physiology, 2013, 59, 130-137.	0.9	125
67	The Multidimensional Nutritional Niche. Trends in Ecology and Evolution, 2016, 31, 355-365.	4.2	124
68	NUTRIENT-SPECIFIC COMPENSATION FOLLOWING DIAPAUSE IN A PREDATOR: IMPLICATIONS FOR INTRAGUILD PREDATION. Ecology, 2007, 88, 2598-2608.	1.5	123
69	Recent Advances in the Integrative Nutrition of Arthropods. Annual Review of Entomology, 2015, 60, 293-311.	5.7	123
70	ORGANISMAL STOICHIOMETRY: QUANTIFYING NON-INDEPENDENCE AMONG FOOD COMPONENTS. Ecology, 2004, 85, 1203-1216.	1.5	121
71	Ant workers die young and colonies collapse when fed a high-protein diet. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2402-2408.	1.2	121
72	Dietary protein, aging and nutritional geometry. Ageing Research Reviews, 2017, 39, 78-86.	5.0	120

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73	Substantial changes in central nervous system neurotransmitters and neuromodulators accompany phase change in the locust. Journal of Experimental Biology, 2004, 207, 3603-3617.	0.8	118
74	The Effect of Dietary Protein Levels and Haemolymph Composition on the Sensitivity of the Maxillary Palp Chemoreceptors of Locusts. Journal of Experimental Biology, 1988, 135, 215-229.	0.8	116
75	Variation in chemosensitivity and the control of dietary selection behaviour in the locust. Appetite, 1991, 17, 141-154.	1.8	114
76	Description of a simple synthetic diet for studying nutritional responses in ants. Insectes Sociaux, 2008, 55, 329-333.	0.7	111
77	Modelling nutritional interactions: from individuals to communities. Trends in Ecology and Evolution, 2010, 25, 53-60.	4.2	111
78	The gastrointestinal tract as a nutrient-balancing organ. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1751-1759.	1.2	110
79	Balancing heat, water and nutrients under environmental change: a thermodynamic niche framework. Functional Ecology, 2013, 27, 950-966.	1.7	110
80	Macronutrients and caloric intake in health and longevity. Journal of Endocrinology, 2015, 226, R17-R28.	1.2	110
81	The Physiology of Compensation by Locusts for Changes in Dietary Protein. Journal of Experimental Biology, 1987, 129, 329-346.	0.8	109
82	Dynamics of macronutrient selfâ€medication and illnessâ€induced anorexia in virally infected insects. Journal of Animal Ecology, 2014, 83, 245-255.	1.3	108
83	Integrative Physiology: At the Crossroads of Nutrition, Microbiota, Animal Physiology, and Human Health. Cell Metabolism, 2017, 25, 522-534.	7.2	108
84	A comparison of dietary selection behaviour in larval Locusta migratoria and Spodoptera littoralis. Physiological Entomology, 1988, 13, 225-238.	0.6	106
85	The effects of nutritional imbalance on compensatory feeding for cellulose-mediated dietary dilution in a generalist caterpillar. Physiological Entomology, 2004, 29, 108-117.	0.6	106
86	Branched chain amino acids, aging and age-related health. Ageing Research Reviews, 2020, 64, 101198.	5.0	105
87	Moving beyond body condition indices as an estimate of fitness in ecological and evolutionary studies. Functional Ecology, 2016, 30, 108-115.	1.7	103
88	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.	2.9	102
89	Parental effects on the behaviour and colouration of nymphs of the desert locust Schistocerca gregaria. Journal of Insect Physiology, 1994, 40, 173-181.	0.9	101
90	Does Bertrand's rule apply to macronutrients?. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 2429-2434.	1.2	101

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91	Arthropod food webs become increasingly lipidâ€limited at higher trophic levels. Ecology Letters, 2013, 16, 895-902.	3.0	100
92	Protein Leverage: Theoretical Foundations and Ten Points of Clarification. Obesity, 2019, 27, 1225-1238.	1.5	99
93	Aging, lifestyle and dementia. Neurobiology of Disease, 2019, 130, 104481.	2.1	97
94	Carbohydrate regulation in relation to colony growth in ants. Journal of Experimental Biology, 2008, 211, 2224-2232.	0.8	96
95	A comparison of nutritional regulation in solitarious- and gregarious-phase nymphs of the desert locust Schistocerca gregaria. Journal of Experimental Biology, 2002, 205, 121-9.	0.8	96
96	Locusts. Current Biology, 2008, 18, R364-R366.	1.8	95
97	Geometric analysis of macronutrient selection in breeds of the domestic dog, Canis lupus familiaris. Behavioral Ecology, 2013, 24, 293-304.	1.0	95
98	Effects of sensory stimuli on the behavioural phase state of the desert locust, Schistocerca gregaria. Journal of Insect Physiology, 1998, 44, 883-893.	0.9	94
99	Phase polyphenism and preventative locust management. Journal of Insect Physiology, 2010, 56, 949-957.	0.9	94
100	Feeding behaviour, sensory physiology and nutrient feedback: a unifying model. Entomologia Experimentalis Et Applicata, 1996, 80, 55-64.	0.7	93
101	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, 20140539.	1.2	93
102	Nutritional strategies to optimise cognitive function in the aging brain. Ageing Research Reviews, 2016, 31, 80-92.	5.0	93
103	Geometric Analysis of Macronutrient Selection in the Rat. Appetite, 1997, 28, 201-213.	1.8	92
104	MALE COCKROACHES PREFER A HIGH CARBOHYDRATE DIET THAT MAKES THEM MORE ATTRACTIVE TO FEMALES: IMPLICATIONS FOR THE STUDY OF CONDITION DEPENDENCE. Evolution; International Journal of Organic Evolution, 2011, 65, 1594-1606.	1.1	92
105	Nutritional ecology beyond the individual: a conceptual framework for integrating nutrition and social interactions. Ecology Letters, 2015, 18, 273-286.	3.0	92
106	Nutritional state and collective motion: from individuals to mass migration. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 356-363.	1.2	91
107	A correlation between macronutrient balancing and insect host-plant range: evidence from the specialist caterpillar Spodoptera exempta (Walker). Journal of Insect Physiology, 2003, 49, 1161-1171.	0.9	90
108	Cardio-Metabolic Effects of High-Fat Diets and Their Underlying Mechanismsâ€"A Narrative Review. Nutrients, 2020, 12, 1505.	1.7	89

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109	Dietary balance during pregnancy is associated with fetal adiposity and fat distribution. American Journal of Clinical Nutrition, 2012, 96, 1032-1041.	2.2	88
110	Assuaging nutritional complexity: a geometrical approach. Proceedings of the Nutrition Society, 1999, 58, 779-789.	0.4	86
111	Ultra-processed foods, protein leverage and energy intake in the USA. Public Health Nutrition, 2018, 21, 114-124.	1.1	86
112	Mechanisms Controlling Modulation by Haemolymph Amino Acids of Gustatory Responsiveness in The Locust. Journal of Experimental Biology, 1992, 168, 269-287.	0.8	86
113	The timeâ€course of behavioural phase change in nymphs of the desert locust, Schistocerca gregaria. Physiological Entomology, 1994, 19, 191-197.	0.6	85
114	Starvation resistance is positively correlated with body lipid proportion in five wild caught Drosophila simulans populations. Journal of Insect Physiology, 2008, 54, 1371-1376.	0.9	84
115	Sucralose Promotes Food Intake through NPY and a Neuronal Fasting Response. Cell Metabolism, 2016, 24, 75-90.	7.2	84
116	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, 707-713.	1.7	83
117	Cognitive and behavioral evaluation of nutritional interventions in rodent models of brain aging and dementia. Clinical Interventions in Aging, 2017, Volume 12, 1419-1428.	1.3	82
118	THE GEOMETRIC ANALYSIS OF NUTRIENTâ€“ALLELOCHEMICAL INTERACTIONS: A CASE STUDY USING LOCUSTS. Ecology, 2001, 82, 422-439.	1.5	79
119	Small-scale processes in desert locust swarm formation: how vegetation patterns influence gregarization. Oikos, 2000, 88, 652-662.	1.2	78
120	The nature of nutrition: a unifying framework. Australian Journal of Zoology, 2011, 59, 350.	0.6	78
121	Temperature, food quality and life history traits of herbivorous insects. Current Opinion in Insect Science, 2015, 11, 63-70.	2.2	76
122	The Geometric Framework for Nutrition as a tool in precision medicine. Nutrition and Healthy Aging, 2017, 4, 217-226.	0.5	76
123	Nutritional PharmEcology: Doses, nutrients, toxins, and medicines. Integrative and Comparative Biology, 2009, 49, 329-337.	0.9	74
124	Protein and Calorie Restriction Contribute Additively to Protection from Renal Ischemia Reperfusion Injury Partly via Leptin Reduction in Male Mice. Journal of Nutrition, 2015, 145, 1717-1727.	1.3	74
125	Landscape structure and locust swarming: a satellite's eye view. Ecography, 2004, 27, 381-391.	2.1	73
126	Insect herbivores can choose microclimates to achieve nutritional homeostasis. Journal of Experimental Biology, 2013, 216, 2089-96.	0.8	73

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127	Macronutrients mediate the functional relationship between Drosophila and Wolbachia. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142029.	1.2	73
128	Nutritional ecology of obesity: from humans to companion animals. British Journal of Nutrition, 2015, 113, S26-S39.	1.2	73
129	Insulin-Like Peptides Regulate Feeding Preference and Metabolism in Drosophila. Frontiers in Physiology, 2018, 9, 1083.	1.3	72
130	Sex differences in nutrientâ€dependent reproductive ageing. Aging Cell, 2009, 8, 324-330.	3.0	71
131	Restriction of essential amino acids dictates the systemic metabolic response to dietary protein dilution. Nature Communications, 2020, 11, 2894.	5.8	71
132	An analysis of the behavioural effects of crowding and reâ€isolation on solitaryâ€reared adult desert locusts (Schistocerca gregaria) and their offspring. Physiological Entomology, 1995, 20, 199-208.	0.6	69
133	The influence of environmental microstructure on the behavioural phase state and distribution of the desert locust Schistocerca gregaria. Physiological Entomology, 1996, 21, 247-256.	0.6	68
134	Nutrient regulation in the pea aphid Acyrthosiphon pisum: application of a novel geometric framework to sugar and amino acid consumption. Physiological Entomology, 1994, 19, 95-102.	0.6	67
135	A new approach to diet optimisation: A re-analysis using European whitefish (Coregonus lavaretus). Aquaculture, 2007, 267, 147-156.	1.7	66
136	Frequency-dependent food selection in locusts: a geometric analysis of the role of nutrient balancing. Animal Behaviour, 2001, 61, 995-1005.	0.8	65
137	Nutrient regulation in relation to diet breadth: a comparison of Heliothis sister species and a hybrid. Journal of Experimental Biology, 2006, 209, 2076-2084.	0.8	64
138	Immediate protein dietary effects on movement and the generalised immunocompetence of migrating Mormon crickets Anabrus simplex (Orthoptera: Tettigoniidae). Ecological Entomology, 2009, 34, 663-668.	1.1	64
139	New Horizons: Dietary protein, ageing and the Okinawan ratio. Age and Ageing, 2016, 45, 443-447.	0.7	64
140	The Regulation of Feeding: Locusts and Blowflies are not so Different from Mammals. Appetite, 1983, 4, 313-346.	1.8	63
141	A comparison of nutrient regulation between solitarious and gregarious phases of the specialist caterpillar, Spodoptera exempta (Walker). Journal of Insect Physiology, 2004, 50, 1171-1180.	0.9	63
142	Assessment and validation of a suite of reverse transcription-quantitative PCR reference genes for analyses of density-dependent behavioural plasticity in the Australian plague locust. BMC Molecular Biology, 2011, 12, 7.	3.0	63
143	Effects of dietary protein to carbohydrate balance on energy intake, fat storage, and heat production in mice. Obesity, 2013, 21, 85-92.	1.5	62
144	Nutritional ecology and foraging theory. Current Opinion in Insect Science, 2018, 27, 38-45.	2.2	62

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145	Food choices of solitarious and gregarious locusts reflect cryptic and aposematic antipredator strategies. Animal Behaviour, 2005, 69, 471-479.	0.8	61
146	Rapid behavioural gregarization in the desert locust, Schistocerca gregaria entails synchronous changes in both activity and attraction to conspecifics. Journal of Insect Physiology, 2014, 65, 9-26.	0.9	61
147	Maternal effects on phase characteristics in the desert locust, Schistocerca gregaria: A review of current understanding. Journal of Insect Physiology, 2007, 53, 869-876.	0.9	60
148	Cannibalism can drive the evolution of behavioural phase polyphenism in locusts. Ecology Letters, 2012, 15, 1158-1166.	3.0	60
149	Obesity: lessons from evolution and the environment. Obesity Reviews, 2012, 13, 910-922.	3.1	59
150	Dietary Selection Behaviour in Spodoptera Littoralis: The Effects of Conditioning Diet and Conditioning Period on Neural Responsiveness and Selection Behaviour. Journal of Experimental Biology, 1992, 162, 73-90.	0.8	59
151	The effects of simultaneous variation in protein, digestible carbohydrate and tannic acid on the feeding behaviour of larval Locusta migratoria (L.) and Schistocerca gregaria (Forskal). I. Short-term studies. Physiological Entomology, 1990, 15, 219-233.	0.6	58
152	Compensatory dietary selection occurs in larval Locusta migratoria but not Spodoptera littoralis after a single deficient meal during ad libitum feeding. Physiological Entomology, 1990, 15, 235-242.	0.6	58
153	Hosts use altered macronutrient intake to circumvent parasite-induced reduction in fecundity. International Journal for Parasitology, 2011, 41, 43-50.	1.3	58
154	Diet modulates the relationship between immune gene expression and functional immune responses. Insect Biochemistry and Molecular Biology, 2019, 109, 128-141.	1.2	58
155	Plasma levels of trimethylamine-N-oxide can be increased with â€˜healthyâ€™ and â€˜unhealthyâ€™ diets and do not correlate with the extent of atherosclerosis but with plaque instability. Cardiovascular Research, 2021, 117, 435-449.	1.8	58
156	Metabolic consequences of feeding and fasting on nutritionally different diets in the wolf spider Pardosa prativaga. Journal of Insect Physiology, 2010, 56, 1095-1100.	0.9	57
157	Behavioural phase change in the Australian plague locust, Chortoicetes terminifera, is triggered by tactile stimulation of the antennae. Journal of Insect Physiology, 2010, 56, 937-942.	0.9	57
158	Speed over efficiency: locusts select body temperatures that favour growth rate over efficient nutrient utilization. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3581-3589.	1.2	56
159	Locusts use dynamic thermoregulatory behaviour to optimize nutritional outcomes. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2745-2752.	1.2	55
160	Modeling spatiotemporal dynamics of outbreaking species: influence of environment and migration in a locust. Ecology, 2015, 96, 737-748.	1.5	55
161	Collective selection of food patches in Drosophila. Journal of Experimental Biology, 2016, 219, 668-675.	0.8	55
162	Stimuli inducing gregarious colouration and behaviour in nymphs of Schistocerca gregaria. Journal of Insect Physiology, 2005, 51, 737-747.	0.9	54

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163	The price of protein: combining evolutionary and economic analysis to understand excessive energy consumption. Obesity Reviews, 2010, 11, 887-894.	3.1	54
164	Thanatosis. Current Biology, 2014, 24, R1031-R1033.	1.8	54
165	Effects of [His7]-corazonin on the phase state of isolated-reared (solitarious) desert locusts, Schistocerca gregaria. Journal of Insect Physiology, 2002, 48, 981-990.	0.9	53
166	Sardine cycles, krill declines, and locust plagues: revisiting â€˜wasp-waistâ€™ food webs. Trends in Ecology and Evolution, 2014, 29, 309-316.	4.2	53
167	Towards an integrated understanding of gut microbiota using insects as model systems. Journal of Insect Physiology, 2014, 69, 12-18.	0.9	53
168	Nutrient transfer functions: the site of integration between feeding behaviour and nutritional physiology. Chemoecology, 1998, 8, 61-68.	0.6	52
169	A behavioural analysis of phase change in the desert locust. Biological Reviews, 1999, 74, 461-480.	4.7	50
170	Swarm formation in the desert locust Schistocerca gregaria:isolation and NMR analysis of the primary maternal gregarizing agent. Journal of Experimental Biology, 2008, 211, 370-376.	0.8	50
171	CHANGES IN THE EFFICIENCY OF UTILISATION OF FOOD THROUGHOUT THE FIFTHâ€INSTAR NYMPHS OF LOCUSTA MIGRATORIA. Entomologia Experimentalis Et Applicata, 1982, 31, 265-275.	0.7	49
172	Food distance and its effect on nutrient balancing in a mobile insect herbivore. Animal Behaviour, 2003, 66, 665-675.	0.8	49
173	A framework for the study of macronutrient intake in fish. Aquaculture Research, 2001, 32, 421-432.	0.9	48
174	Group structure in locust migratory bands. Behavioral Ecology and Sociobiology, 2011, 65, 265-273.	0.6	48
175	Aging Biology and Novel Targets for Drug Discovery. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 168-174.	1.7	48
176	Direct and trans-generational effects of male and female gut microbiota in Drosophila melanogaster. Biology Letters, 2017, 13, 20160966.	1.0	48
177	The role of volumetric feedback from the hindgut in the regulation of meal size in fifth-instar Locusta migratoria nymphs. Physiological Entomology, 1983, 8, 451-467.	0.6	47
178	The patterning of compensatory sugar feeding in the Australian sheep blowfly. Physiological Entomology, 1989, 14, 91-105.	0.6	47
179	The influence of mechanical, visual and contact chemical stimulation on the behavioural phase state of solitarious desert locusts (Schistocerca gregaria). Journal of Insect Physiology, 2000, 46, 1295-1301.	0.9	47
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