Nutritional Physiology and Ecology of Honey Bees

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Citation Report

#	Article	IF	Citations
1	Digestibility and nutritional value of fresh and stored pollen for honey bees (Apis mellifera) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742 Td	0.9	33
2	Effects of vitellogenin in age polyethism and population dynamics of honeybees. Ecological Modelling, 2018, 388, 88-107.	1.2	11
3	Social nutrition: an emerging field in insect science. Current Opinion in Insect Science, 2018, 28, 73-80.	2.2	16
4	Omega-6:3 Ratio More Than Absolute Lipid Level in Diet Affects Associative Learning in Honey Bees. Frontiers in Psychology, 2018, 9, 1001.	1.1	37
5	A Better Understanding of Bee Nutritional Ecology Is Needed to Optimize Conservation Strategies for Wild Beesâ€"The Application of Ecological Stoichiometry. Insects, 2018, 9, 85.	1.0	35
6	Metabolomics-based biomarker discovery for bee health monitoring: A proof of concept study concerning nutritional stress in Bombus terrestris. Scientific Reports, 2019, 9, 11423.	1.6	15
7	The Impacts of Two Protein Supplements on Commercial Honey Bee (Apis mellifera L.) Colonies. Journal of Apicultural Research, 2019, 58, 800-813.	0.7	23
8	Examining the nutritional value and effects of different floral resources in pumpkin agroecosystems on Bombus impatiens worker physiology. Apidologie, 2019, 50, 542-552.	0.9	23
9	Individual and Colony Level Foraging Decisions of Bumble Bees and Honey Bees in Relation to Balancing of Nutrient Needs. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	41
10	Effects of essential amino acid supplementation to promote honey bee gland and muscle development in cages and colonies. Journal of Insect Physiology, 2019, 117, 103906.	0.9	29
11	Towards Precision Nutrition: A Novel Concept Linking Phytochemicals, Immune Response and Honey Bee Health. Insects, 2019, 10, 401.	1.0	31
12	Pollen Protein Content from Different Regions in Bulgaria Suggests Low Variability. Bee World, 2019, 96, 108-110.	0.3	2
13	Transitions and transmission: behavior and physiology as drivers of honey bee-associated microbial communities. Current Opinion in Microbiology, 2019, 50, 1-7.	2.3	14
14	Effects of ensiling on the quality of protein supplements for honey bees Apis mellifera. Apidologie, 2019, 50, 414-424.	0.9	5
15	A matter of taste: the adverse effect of pollen compounds on the pre-ingestive gustatory experience of sugar solutions for honeybees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 333-346.	0.7	2
16	Bumblebees adjust protein and lipid collection rules to the presence of brood. Environmental Epigenetics, 2019, 65, 437-446.	0.9	40
17	Seasonal variation of pollen collected by honey bees (Apis mellifera) in developed areas across four regions in the United States. PLoS ONE, 2019, 14, e0217294.	1.1	71
18	Influence of sugar experience during development on gustatory sensitivity of the honey bee. Journal of Insect Physiology, 2019, 116, 100-105.	0.9	3

#	Article	IF	Citations
19	A Secreted RNA Binding Protein Forms RNA-Stabilizing Granules in the Honeybee Royal Jelly. Molecular Cell, 2019, 74, 598-608.e6.	4.5	39
20	A Transmissible RNA Pathway in Honey Bees. Cell Reports, 2019, 27, 1949-1959.e6.	2.9	44
21	Interacting stressors matter: diet quality and virus infection in honeybee health. Royal Society Open Science, 2019, 6, 181803.	1.1	80
22	Comparison of original honey (Apis sp and Tetragonula sp) and fake honey compounds in Indonesia using gas chromatography-mass spectrometry (GC-MS). AIP Conference Proceedings, 2019, , .	0.3	2
23	Native habitat mitigates feastâ€“famine conditions faced by honey bees in an agricultural landscape. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25147-25155.	3.3	88
24	Emerging Themes from the ESA Symposium Entitled â€œPollinator Nutrition: Lessons from Bees at Individual to Landscape Levelsâ€: Bee World, 2019, 96, 3-9.	0.3	11
25	Insights into the metabolism and behaviour of Varroa destructor mites from analysis of their waste excretions. Parasitology, 2019, 146, 527-532.	0.7	19
26	Beyond flowers: including non-floral resources in bee conservation schemes. Journal of Insect Conservation, 2020, 24, 5-16.	0.8	73
27	Automated monitoring of bee behaviour using connected hives: Towards a computational apidology. Apidologie, 2020, 51, 356-368.	0.9	27
28	Limitation of complementary resources affects colony growth, foraging behavior, and reproduction in bumble bees. Ecology, 2020, 101, e02946.	1.5	25
29	Antibiotic treatment impairs protein digestion in the honeybee, Apis mellifera. Apidologie, 2020, 51, 94-106.	0.9	9
30	Transcriptomic and metabolomic landscape of the molecular effects of glyphosate commercial formulation on Apis mellifera ligustica and Apis cerana cerana. Science of the Total Environment, 2020, 744, 140819.	3.9	39
31	Environmental gut bacteria in European honey bees (Apis mellifera) from Australia and their relationship to the chalkbrood disease. PLoS ONE, 2020, 15, e0238252.	1.1	11
32	Mechanisms of Nutritional Resource Exploitation by Insects. Insects, 2020, 11, 570.	1.0	7
33	The Scarcity of Specific Nutrients in Wild Bee Larval Food Negatively Influences Certain Life History Traits. Biology, 2020, 9, 462.	1.3	24
34	Ameliorative Effects of Phytochemical Ingestion on Viral Infection in Honey Bees. Insects, 2020, 11, 698.	1.0	11
35	A review of nutrition in bumblebees: The effect of caste, life-stage and life history traits. Advances in Insect Physiology, 2020, 59, 71-129.	1.1	12
36	Determination of neonicotinoids and butenolide residues in avian and insect pollinators and their ambient environment in Western Canada (2017, 2018). Science of the Total Environment, 2020, 737, 139386.	3.9	31

#	Article	IF	Citations
37	Effect of diet lipids and omega-6:3 ratio on honey bee brood development, adult survival and body composition. Journal of Insect Physiology, 2020, 124, 104074.	0.9	26
38	Floral Species Richness Correlates with Changes in the Nutritional Quality of Larval Diets in a Stingless Bee. Insects, 2020, 11, 125.	1.0	28
39	Retained metabolic activity in honey bee collected pollen has implications for pollen digestion and effects on honey bee health. Apidologie, 2020, 51, 212-225.	0.9	4
40	Honey Bee (Hymenoptera: Apidea) Pollen Forage in a Highly Cultivated Agroecosystem: Limited Diet Diversity and Its Relationship to Virus Resistance. Journal of Economic Entomology, 2020, 113, 1062-1072.	0.8	25
41	Dietary supplementation with phytochemicals improves diversity and abundance of honey bee gut microbiota. Journal of Applied Microbiology, 2021, 130, 1705-1720.	1.4	22
42	Effects of glyphosate-based herbicide on royal jelly production of Apis mellifera (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overl	0.7	7
43	North American Prairie Is a Source of Pollen for Managed Honey Bees (Hymenoptera: Apidae). Journal of Insect Science, 2021, 21, .	0.6	7
44	Bee products as nutraceuticals to nutraceuticals for bees. , 2021, , 813-833.		6
45	Nutrition in Social Insects. , 2021, , 670-675.		0
46	Sheka forest biosphere reserve beekeeping practices and characteristics of Schefflera abyssinica honey, Ethiopia. Environment, Development and Sustainability, 2021, 23, 11818-11836.	2.7	2
47	A new design of bee cage for laboratory experiments: nutritional assessment of supplemental diets in honey bees (Apis mellifera). Apidologie, 2021, 52, 418-431.	0.9	4
48	Pollen sterols are associated with phylogeny and environment but not with pollinator guilds. New Phytologist, 2021, 230, 1169-1184.	3.5	26
50	You are what you eat: relative importance of diet, gut microbiota and nestmates for honey bee, Apis mellifera, worker health. Apidologie, 2021, 52, 632-646.	0.9	6
51	Characterization of Apis mellifera Gastrointestinal Microbiota and Lactic Acid Bacteria for Honeybee Protectionâ€”A Review. Cells, 2021, 10, 701.	1.8	55
52	Pollen diversity and protein content in differentially degraded semi-arid landscapes in Kenya. Journal of Apicultural Research, 2021, 60, 828-841.	0.7	4
53	The Bee Hemolymph Metabolome: A Window into the Impact of Viruses on Bumble Bees. Viruses, 2021, 13, 600.	1.5	2
54	Pollen protein and lipid content influence resilience to insecticides in honey bees (Apis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 102 Td	0.8	32
55	Tracing the Fate of Pollen Substitute Patties in Western Honey Bee (Hymenoptera: Apidae) Colonies. Journal of Economic Entomology, 2021, 114, 1421-1430.	0.8	14

#	Article	IF	Citations
56	A New Approach to Inform Restoration and Management Decisions for Sustainable Apiculture. Sustainability, 2021, 13, 6109.	1.6	2
57	Markers for the spatial and temporal differentiation of bee pollen harvested byApis melliferaL. in the Eastern Andes of Colombia. Journal of Apicultural Research, 2023, 62, 556-569.	0.7	1
58	Honey bee exposure scenarios to selected residues through contaminated beeswax. Science of the Total Environment, 2021, 772, 145533.	3.9	15
59	Honey bee (Apis mellifera) preference towards micronutrients and their impact on bee colonies. Saudi Journal of Biological Sciences, 2021, 28, 3362-3366.	1.8	19
60	A model of resource partitioning between foraging bees based on learning. PLoS Computational Biology, 2021, 17, e1009260.	1.5	10
61	Larval nutrition impacts survival to adulthood, body size and the allometric scaling of metabolic rate in adult honeybees. Journal of Experimental Biology, 2021, 224, .	0.8	13
62	Developmental environment shapes honeybee worker response to virus infection. Scientific Reports, 2021, 11, 13961.	1.6	5
63	Nutritional effects of supplementary diets on brood development, biological activities and honey production of Apis mellifera L. Saudi Journal of Biological Sciences, 2021, 28, 6861-6868.	1.8	7
64	Structure of Anther Epidermis and Endothecium, Production of Pollen, and Content of Selected Nutrients in Pollen Grains from Six Rubus idaeus L. Cultivars. Agronomy, 2021, 11, 1723.	1.3	3
65	Supplemental feeds and foraged corn grain dust: a comparison of the number of days survived inÂvitro by young adult honey bees (Apis mellifera). Journal of Apicultural Research, 0, , 1-8.	0.7	1
66	Energy-Efficient Wireless Weight Sensor for Remote Beehive Monitoring. Sensors, 2021, 21, 6032.	2.1	3
67	Molecular underpinnings of the early brain developmental response to differential feeding in the honey bee Apis mellifera. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2021, 1864, 194732.	0.9	5
68	Pollen nutrition fosters honeybee tolerance to pesticides. Royal Society Open Science, 2021, 8, 210818.	1.1	33
69	Proportion of commodity crop pollens and pesticide contamination in honey bee diets in two different landscapes. Environmental Advances, 2021, 5, 100116.	2.2	8
70	Non-targeted lipidomics and transcriptomics analysis reveal the molecular underpinnings of mandibular gland development in Apis mellifera ligustica. Developmental Biology, 2021, 479, 23-36.	0.9	6
71	Supplementation with an Inorganic Zinc Source in the Metalloproteomic Profile of Royal Jelly in Apis mellifera L.. Biological Trace Element Research, 2021, 199, 4308-4318.	1.9	3
72	Mutualisms and (A)symmetry in Plantâ€“Pollinator Interactions. Current Biology, 2021, 31, R91-R99.	1.8	49
74	In vitro antimicrobial activities of Saudi honeys originating from Ziziphus spinaâ€christi L. and Acacia gerrardii Benth. trees. Food Science and Nutrition, 2020, 8, 390-401.	1.5	30

#	Article	IF	Citations
75	Symbiont-mediated degradation of dietary carbon sources in social herbivorous insects. Advances in Insect Physiology, 2020, 58, 63-109.	1.1	7
76	Honey Bee Proteome Responses to Plant and Cyanobacteria (blue-green algae) Diets. ACS Food Science & Technology, 2021, 1, 17-26.	1.3	9
79	Regulation of dietary intake of protein and lipid by nurse-age adult worker honeybees. Journal of Experimental Biology, 2021, 224, .	0.8	13
80	Prisoners receive food fit for a queen: honeybees feed small hive beetles protein-rich glandular secretions through trophallaxis. Journal of Experimental Biology, 2021, 224, .	0.8	3
81	Honey sample collection methods influence pollen composition in determining true nectar-foraging bee plants. Acta Botanica Brasilica, 2020, 34, 478-486.	0.8	15
82	Can Native Plants Mitigate Climate-related Forage Dearth for Honey Bees (Hymenoptera: Apidae)?. Journal of Economic Entomology, 2022, 115, 1-9.	0.8	10
83	Comparative assessment of various supplementary diets on commercial honey bee (Apis mellifera) health and colony performance. PLoS ONE, 2021, 16, e0258430.	1.1	11
84	Bal ArÄ±larÄ±nda Beslenme Fizyolojisi ve MetabolizmasÄ±. Hayvansal Ãœretim, 0, , .	0.2	0
85	Effect of Feeding Honey Bees on Colony Dynamics. Journal of the Institute of Science and Technology, 0, , 2398-2408.	0.3	4
86	Peso e capacidade de armazenamento da vesÃ¢cula melÃfera de abelhas africanizadas no Sul de Santa Catarina. ACTA Apicola Brasilica, 0, 8, e7989.	0.0	0
87	Microbial Decontamination of Bee Pollen by Direct Ozone Exposure. Foods, 2021, 10, 2593.	1.9	3
89	Nutrition in Social Insects. , 2020, , 1-5.		0
91	Forest landscapes increase diversity of honeybee diets in the tropics. Forest Ecology and Management, 2022, 504, 119869.	1.4	6
92	Reviewing the Efficacy of Pollen Substitutes as a Management Tool for Improving the Health and Productivity of Western Honey Bee (Apis mellifera) Colonies. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	18
93	Young honeybees show learned preferences after experiencing adulterated pollen. Scientific Reports, 2021, 11, 23327.	1.6	4
94	Evaluating the strength of western honey bee (Apis mellifera L.) colonies fed pollen substitutes over winter. Journal of Applied Entomology, 2022, 146, 291-300.	0.8	0
95	Physiological and biochemical response of the solitary bee Osmia bicornis exposed to three insecticide-based agrochemicals. Ecotoxicology and Environmental Safety, 2022, 230, 113095.	2.9	6
96	Proteomic profiling of royal jelly produced by Apis mellifera L. exposed to food containing herbicide-based glyphosate. Chemosphere, 2022, 292, 133334.	4.2	7

#	Article	IF	Citations
97	Functional response of the hypopharyngeal glands to a social parasitism challenge in Southern African honey bee subspecies. Parasitology Research, 2022, 121, 267-274.	0.6	4
98	Consumption of Supplemental Spring Protein Feeds by Western Honey Bee (Hymenoptera: Apidae) Colonies: Effects on Colony Growth and Pollination Potential. Journal of Economic Entomology, 2022, 115, 417-429.	0.8	9
99	Higher toxin tolerance to triptolide, a terpenoid foraged by a sympatric honeybee. Journal of Insect Physiology, 2022, 137, 104358.	0.9	3
100	Unravelling the dependence of a wild bee on floral diversity and composition using a feeding experiment. Science of the Total Environment, 2022, 820, 153326.	3.9	26
101	Critical links between biodiversity and health in wild bee conservation. Trends in Ecology and Evolution, 2022, 37, 309-321.	4.2	48
102	Changes in chemical composition and antioxidant activity of royal jelly produced at different floral periods during migratory beekeeping. Food Research International, 2022, 155, 111091.	2.9	12
103	Fatty acid homeostasis in honey bees (Apis mellifera) fed commercial diet supplements. Apidologie, 2021, 52, 1195-1209.	0.9	8
104	Assessing the toxicological interaction effects of imidacloprid, thiamethoxam, and chlorpyrifos on Bombus terrestris based on the combination index. Scientific Reports, 2022, 12, 6301.	1.6	4
105	Applications of Alginate-Based Nanomaterials in Enhancing the Therapeutic Effects of Bee Products. Frontiers in Molecular Biosciences, 2022, 9, 865833.	1.6	10
106	Wild Bee Nutritional Ecology: Integrative Strategies to Assess Foraging Preferences and Nutritional Requirements. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	6
109	A comparative melissopalynological study of royal jelly from Turkey. Grana, 0, , 1-11.	0.4	1
110	Do amino and fatty acid profiles of pollen provisions correlate with bacterial microbiomes in the mason beeOsmia bicornis?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210171.	1.8	14
111	B-Vitamins Influence the Consumption of Macronutrients in Honey Bees. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	3
112	Dream Team for Honey Bee Health: Pollen and Unmanipulated Gut Microbiota Promote Worker Longevity and Body Weight. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	3
113	Pesticide risk to managed bees during blueberry pollination is primarily driven by off-farm exposures. Scientific Reports, 2022, 12, 7189.	1.6	20
114	Natural processes influencing pollinator health. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210154.	1.8	6
115	Assessing pollen nutrient content: a unifying approach for the study of bee nutritional ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210510.	1.8	21
116	Temporal Patterns of Honeybee Foraging in a Diverse Floral Landscape Revealed Using Pollen DNA Metabarcoding of Honey. Integrative and Comparative Biology, 2022, 62, 199-210.	0.9	8

#	Article	IF	Citations
117	Behavioural regulation of mineral salt intake in honeybees: a self-selection approach. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210169.	1.8	8
118	Flower sharing and pollinator health: a behavioural perspective. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210157.	1.8	5
119	Chemical Profile, Antioxidant and Enzyme Inhibition Activities of Natural Saudi Sidr and Talh Honeys. Chemistry and Biodiversity, 2022, 19, .	1.0	3
120	Survival, Body Condition, and Immune System of Apis mellifera liguistica Fed Avocado, Maize, and Polyfloral Pollen Diet. Neotropical Entomology, 2022, 51, 583-592.	0.5	3
121	In pursuit of the ultimate pollen substitute (insect larvae) for honey bee (Apis mellifera) feed. Journal of Apicultural Research, 2023, 62, 1007-1016.	0.7	2
122	Winter flowers for bees: reproductive biology of Trixis praestans (Asteraceae). Plant Systematics and Evolution, 2022, 308, .	0.3	3
123	Honey bee symbiont buffers larvae against nutritional stress and supplements lysine. ISME Journal, 2022, 16, 2160-2168.	4.4	17
124	Diversity and Functional Roles of the Gut Microbiota in Lepidopteran Insects. Microorganisms, 2022, 10, 1234.	1.6	31
125	Nano- and micro-polystyrene plastics disturb gut microbiota and intestinal immune system in honeybee. Science of the Total Environment, 2022, 842, 156819.	3.9	22
126	Application of ionomics and ecological stoichiometry in conservation biology: Nutrient demand and supply in a changing environment. Biological Conservation, 2022, 272, 109622.	1.9	18
127	The role of honey in the ecology of the hive: Nutrition, detoxification, longevity, and protection against hive pathogens. Frontiers in Nutrition, 0, 9, .	1.6	2
128	Nectar Abundance and Nectar Composition in Selected Rubus idaeus L. Varieties. Agriculture (Switzerland), 2022, 12, 1132.	1.4	1
129	Access to prairie pollen affects honey bee queen fecundity in the field and lab. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	2
130	Low resource availability drives feeding niche partitioning between wild bees and honeybees in a European city. Ecological Applications, 2023, 33, .	1.8	7
131	Where Does Honey Bee (Apis mellifera L.) Pollen Come from? A Study of Pollen Collected from Colonies at Ornamental Plant Nurseries. Insects, 2022, 13, 744.	1.0	6
132	On the Service Transformation of Ningbo's Manufacturing Industry Considering the Potential of Ecological Benefits. International Journal of Information Systems and Supply Chain Management, 2022, 15, 1-15.	0.6	0
133	Diet and pheromones interact to shape honey bee (Apis mellifera) worker physiology. Journal of Insect Physiology, 2022, 143, 104442.	0.9	4
134	Effect of queen cell numbers on royal jelly production and quality. Current Research in Food Science, 2022, 5, 1818-1825.	2.7	2

#	Article	IF	Citations
135	Changes in Vitellogenin (Vg) and Stress Protein (HSP 70) in Honey Bee (Apis mellifera anatoliaca) Groups under Different Diets Linked with Physico-Chemical, Antioxidant and Fatty and Amino Acid Profiles. Insects, 2022, 13, 985.	1.0	7
136	The Impact of the Honeybee Apis mellifera on the Organization of Pollination Networks Is Positively Related with Its Interactive Role throughout Its Geographic Range. Diversity, 2022, 14, 917.	0.7	3
137	Continuous exchange of nectar nutrients in an Oriental hornet colony. Communications Biology, 2022, 5, .	2.0	1
138	Bumble bees exploit known sources but return with partial pollen loads when foraging under low evening light. Animal Behaviour, 2022, 194, 127-137.	0.8	2
139	Uses and benefits of algae as a nutritional supplement for honey bees. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	2
140	Nonnutritive Sugars for Spotted-Wing Drosophila (Diptera: Drosophilidae) Control Have Minimal Nontarget Effects on Honey Bee Larvae, a Pupal Parasitoid, and Yellow Jackets. Environmental Entomology, 2023, 52, 47-55.	0.7	3
141	Effect of some bee bread quality on protein content and antioxidant system of honeybee workers. International Journal of Tropical Insect Science, 2023, 43, 93-105.	0.4	4
142	Developing Strategies to Help Bee Colony Resilience in Changing Environments. Animals, 2022, 12, 3396.	1.0	2
143	Proboscis Extension Response of Three Apis mellifera Subspecies toward Water and Sugars in Subtropical Ecosystem. Stresses, 2023, 3, 182-197.	1.8	1
144	Supplementation in vitamin B3 counteracts the negative effects of tryptophan deficiencies in bumble bees. , 2023, 11, .		2
145	Specialty grand challenge â€“ Building a 21st century community of bee physiologists to tackle 21st century challenges to bee thriving. , 0, 1, .		0
146	Increased survival of honey bees consuming pollen and beebread is associated with elevated biomarkers of oxidative stress. Frontiers in Ecology and Evolution, 0, 11, .	1.1	2
147	Potential of Beekeeping to Support the Livelihood, Economy, Society, and Environment of Indonesia. Forests, 2023, 14, 321.	0.9	4
148	Effect of bee bread on Africanized honey bees infected with spores of Nosema spp.. Entomologia Experimentalis Et Applicata, 2023, 171, 374-385.	0.7	0
149	Honey bee nutritional ecology: From physiology to landscapes. Advances in Insect Physiology, 2023, , .	1.1	1
150	Honey Bees Prefer Pollen Substitutes Rich in Protein Content Located at Short Distance from the Apiary. Animals, 2023, 13, 885.	1.0	5
151	BIOMARKERS OF OXIDATIVE STRESS IN APIS MELLIFERA UNDER DIFFERENT CARBOHYDRATE DIETS. Biolohichni Systemy, 2022, 14, 129-136.	0.0	0
152	The difference in composition and nutritional potency of honey extracted by centrifugation and pressed processes. Food Quality and Safety, 0, , .	0.6	2

#	Article	IF	Citations
170	Honey bee pollination ecology. , 2024, , 121-150.		1
177	Energetics of foraging. , 2024, , 105-120.		0