Speakman John

List of Publications by Citations

600 papers	27,553 citations	83 h-index	134 g-index
637 ext. papers	31,419 ext. citations	5.6 avg, IF	7.58 L-index

#	Paper	IF	Citations
600	Body size, energy metabolism and lifespan. *Journal of Experimental Biology*, **2005**, 208, 1717-30	3	581
599	A guide to analysis of mouse energy metabolism. *Nature Methods*, **2011**, 9, 57-63	21.6	516
598	Caloric restriction. *Molecular Aspects of Medicine*, **2011**, 32, 159-221	16.7	513
597	The physiological costs of reproduction in small mammals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 375-98	5.8	489
596	Uncoupled and surviving: individual mice with high metabolism have greater mitochondrial uncoupling and live longer. *Aging Cell*, **2004**, 3, 87-95	9.9	443
595	Evidence for lifespan extension and delayed age-related biomarkers in insulin receptor substrate 1 null mice. *FASEB Journal*, **2008**, 22, 807-18	0.9	408
594	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. *Journal of Clinical Investigation*, **2007**, 117, 2325-36	15.9	377
593	Energy balance and its components: implications for body weight regulation. *American Journal of Clinical Nutrition*, **2012**, 95, 989-94	7	374
592	Energy balance measurement: when something is not better than nothing. *International Journal of Obesity*, **2015**, 39, 1109-13	5.5	338
591	Measuring metabolic rate in the field: the pros and cons of the doubly labelled water and heart rate methods. *Functional Ecology*, **2004**, 18, 168-183	5.6	306
590	Factors influencing variation in basal metabolic rate include fat-free mass, fat mass, age, and circulating thyroxine but not sex, circulating leptin, or triiodothyronine. *American Journal of Clinical Nutrition*, **2005**, 82, 941-8	7	302
589	Energetic and fitness costs of mismatching resource supply and demand in seasonally breeding birds. *Science*, **2001**, 291, 2598-600	33.3	291
588	Climate-mediated energetic constraints on the distribution of hibernating mammals. *Nature*, **2002**, 418, 313-6	50.4	266
587	Oxidative damage, ageing, and life-history evolution: where now?. *Trends in Ecology and Evolution*, **2012**, 27, 570-7	10.9	249
586	Maximal heat dissipation capacity and hyperthermia risk: neglected key factors in the ecology of endotherms. *Journal of Animal Ecology*, **2010**, 79, 726-46	4.7	249
585	Polymorphisms of the FTO gene are associated with variation in energy intake, but not energy expenditure. *Obesity*, **2008**, 16, 1961-5	8	246
584	High hunting costs make African wild dogs vulnerable to kleptoparasitism by hyaenas. *Nature*, **1998** , 391, 479-481	50.4	242

583	Physical activity and resting metabolic rate. *Proceedings of the Nutrition Society*, **2003**, 62, 621-34	2.9	238
582	Thrifty genes for obesity, an attractive but flawed idea, and an alternative perspective: the 'drifty gene' hypothesis. *International Journal of Obesity*, **2008**, 32, 1611-7	5.5	230
581	Low energy values of fish as a probable cause of a major seabird breeding failure in the North Sea. *Marine Ecology - Progress Series*, **2005**, 294, 1-8	2.6	220
580	Set points, settling points and some alternative models: theoretical options to understand how genes and environments combine to regulate body adiposity. *DMM Disease Models and Mechanisms*, **2011**, 4, 733-45	4.1	206
579	Physical activity energy expenditure has not declined since the 1980s and matches energy expenditures of wild mammals. *International Journal of Obesity*, **2008**, 32, 1256-63	5.5	189
578	Some mathematical and technical issues in the measurement and interpretation of open-circuit indirect calorimetry in small animals. *International Journal of Obesity*, **2006**, 30, 1322-31	5.5	187
577	The free-radical damage theory: Accumulating evidence against a simple link of oxidative stress to ageing and lifespan. *BioEssays*, **2011**, 33, 255-9	4.1	186
576	Limits to Sustained Metabolic Rate: The Link between Food Intake, Basal Metabolic Rate, and Morphology in Reproducing Mice, Mus musculus. *Physiological Zoology*, **1996**, 69, 746-769		185
575	The role of insulin receptor substrate 2 in hypothalamic and beta cell function. *Journal of Clinical Investigation*, **2005**, 115, 940-50	15.9	184
574	The history and theory of the doubly labeled water technique. *American Journal of Clinical Nutrition* , **1998**, 68, 932S-938S	7	183
573	Birds sacrifice oxidative protection for reproduction. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271 Suppl 5, S360-3	4.4	176
572	The functional significance of individual variation in basal metabolic rate. *Physiological and Biochemical Zoology*, **2004**, 77, 900-15	2	175
571	No cost of echolocation for bats in flight. *Nature*, **1991**, 350, 421-3	50.4	173
570	A nonadaptive scenario explaining the genetic predisposition to obesity: the "predation release" hypothesis. *Cell Metabolism*, **2007**, 6, 5-12	24.6	172
569	Oxidative stress as a cost of reproduction: beyond the simplistic trade-off model. *BioEssays*, **2014**, 36, 93-106	4.1	149
568	Obesity: the integrated roles of environment and genetics. *Journal of Nutrition*, **2004**, 134, 2090S-2105S	4.1	149
567	Brown adipose tissue transplantation improves whole-body energy metabolism. *Cell Research*, **2013** , 23, 851-4	24.7	146
566	Living fast, dying when? The link between aging and energetics. *Journal of Nutrition*, **2002**, 132, 1583S-97S	4.1	145

565	Brown Adipose Tissue Transplantation Reverses Obesity in Ob/Ob Mice. *Endocrinology*, **2015**, 156, 2461-9	4.8	141
564	Oxidative stress and life histories: unresolved issues and current needs. *Ecology and Evolution*, **2015**, 5, 5745-57	2.8	141
563	Limits to sustained energy intake. *Journal of Experimental Biology*, **2001**, 204, 1925-1935	3	141
562	Measuring energy metabolism in the mouse - theoretical, practical, and analytical considerations. *Frontiers in Physiology*, **2013**, 4, 34	4.6	137
561	ANIMAL PHYSIOLOGY. Exceptionally low daily energy expenditure in the bamboo-eating giant panda. *Science*, **2015**, 349, 171-4	33.3	129
560	Not so hot: Optimal housing temperatures for mice to mimic the thermal environment of humans. *Molecular Metabolism*, **2012**, 2, 5-9	8.8	124
559	Associations between energy demands, physical activity, and body composition in adult humans between 18 and 96 y of age. *American Journal of Clinical Nutrition*, **2010**, 92, 826-34	7	122
558	White-nose syndrome initiates a cascade of physiologic disturbances in the hibernating bat host. *BMC Physiology*, **2014**, 14, 10	0	121
557	High flight costs, but low dive costs, in auks support the biomechanical hypothesis for flightlessness in penguins. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9380-4	11.5	119
556	Increased television viewing is associated with elevated body fatness but not with lower total energy expenditure in children. *American Journal of Clinical Nutrition*, **2009**, 89, 1031-6	7	116
555	Dietary Fat, but Not Protein or Carbohydrate, Regulates Energy Intake and Causes Adiposity in Mice. *Cell Metabolism*, **2018**, 28, 415-431.e4	24.6	115
554	Limits to sustained energy intake. X. Effects of fur removal on reproductive performance in laboratory mice. *Journal of Experimental Biology*, **2007**, 210, 4233-43	3	111
553	Limits to sustained energy intake. VI. Energetics of lactation in laboratory mice at thermoneutrality. *Journal of Experimental Biology*, **2003**, 206, 4255-66	3	110
552	Age-related changes in the metabolism and body composition of three dog breeds and their relationship to life expectancy. *Aging Cell*, **2003**, 2, 265-75	9.9	110
551	Exercise by lifelong voluntary wheel running reduces subsarcolemmal and interfibrillar mitochondrial hydrogen peroxide production in the heart. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 289, R1564-72	3.2	108
550	Daily energy expenditure of the grey mouse lemur (Microcebus murinus): a small primate that uses torpor. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2000**, 170, 633-41	2.2	108
549	Limits to sustained energy intake. I. Lactation in the laboratory mouse Mus musculus. *Journal of Experimental Biology*, **2001**, 204, 1925-35	3	108
548	Sex differences in the effect of fish-oil supplementation on the adaptive response to resistance exercise training in older people: a randomized controlled trial. *American Journal of Clinical Nutrition*, **2017**, 105, 151-158	7	103

547	The energy cost of song in the canary, Serinus canaria. *Animal Behaviour*, **2003**, 66, 893-902	2.8	102
546	Correlations between physiology and lifespan--two widely ignored problems with comparative studies. *Aging Cell*, **2005**, 4, 167-75	9.9	102
545	Limits to sustained energy intake IX: a review of hypotheses. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2005**, 175, 375-94	2.2	102
544	Reconstitution of using CRISPR/Cas9 in the white adipose tissue of pigs decreases fat deposition and improves thermogenic capacity. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9474-E9482	11.5	101
543	Microbiota Depletion Impairs Thermogenesis of Brown Adipose Tissue and Browning of White Adipose Tissue. *Cell Reports*, **2019**, 26, 2720-2737.e5	10.6	100
542	Associations between energetics and over-winter survival in the short-tailed field vole Microtus agrestis. *Journal of Animal Ecology*, **2001**, 70, 633-640	4.7	100
541	Evolutionary perspectives on the obesity epidemic: adaptive, maladaptive, and neutral viewpoints. *Annual Review of Nutrition*, **2013**, 33, 289-317	9.9	99
540	On the origin of obesity: identifying the biological, environmental and cultural drivers of genetic risk among human populations. *Obesity Reviews*, **2018**, 19, 121-149	10.6	98
539	The 'Fat Mass and Obesity Related' (FTO) gene: Mechanisms of Impact on Obesity and Energy Balance. *Current Obesity Reports*, **2015**, 4, 73-91	8.4	97
538	The contribution of animal models to the study of obesity. *Laboratory Animals*, **2008**, 42, 413-32	2.6	96
537	Energy budgets of lactating and non-reproductive Brown Long-Eared Bats (Plecotus auritus) suggest females use compensation in lactation. *Functional Ecology*, **1999**, 13, 360-372	5.6	95
536	The impact of predation by birds on bat populations in the British Isles. *Mammal Review*, **1991**, 21, 123-142		95
535	Feathers as a means of monitoring mercury in seabirds: Insights from stable isotope analysis. *Environmental Pollution*, **1998**, 101, 193-200	9.3	93
534	Effect of long-term cold exposure on antioxidant enzyme activities in a small mammal. *Free Radical Biology and Medicine*, **2000**, 28, 1279-85	7.8	93
533	The equilibrium concentration of oxygen-18 in body water: Implications for the accuracy of the doubly-labelled water technique and a potential new method of measuring RQ in free-living animals. *Journal of Theoretical Biology*, **1987**, 127, 79-95	2.3	93
532	Limits to sustained energy intake. VII. Milk energy output in laboratory mice at thermoneutrality. *Journal of Experimental Biology*, **2003**, 206, 4267-81	3	92
531	Preparing for inactivity: how insectivorous bats deposit a fat store for hibernation. *Proceedings of the Nutrition Society*, **1999**, 58, 123-31	2.9	92
530	Effects of Disturbance on the Energy Expenditure of Hibernating Bats. *Journal of Applied Ecology*, **1991**, 28, 1087	5.8	91

529	Huddling in groups leads to daily energy savings in free-living African Four-Striped Grass Mice, Rhabdomys pumilio. *Functional Ecology*, **2006**, 20, 166-173	5.6	90
528	How hot is a hibernaculum? A review of the temperatures at which bats hibernate. *Canadian Journal of Zoology*, **1996**, 74, 761-765	1.5	90
527	Starving for life: what animal studies can and cannot tell us about the use of caloric restriction to prolong human lifespan. *Journal of Nutrition*, **2007**, 137, 1078-86	4.1	89
526	Validation of dual energy X-ray absorptiometry (DXA) by comparison with chemical analysis of dogs and cats. *International Journal of Obesity*, **2001**, 25, 439-47	5.5	89
525	Interlaboratory comparison of different analytical techniques for the determination of oxygen-18 abundance. *Analytical Chemistry*, **1990**, 62, 703-708	7.8	88
524	Thrifty genes for obesity and the metabolic syndrome--time to call off the search?. *Diabetes and Vascular Disease Research*, **2006**, 3, 7-11	3.3	87
523	Resting and daily energy expenditures of free-living field voles are positively correlated but reflect extrinsic rather than intrinsic effects. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14057-62	11.5	87
522	Accelerometers can measure total and activity-specific energy expenditures in free-ranging marine mammals only if linked to time-activity budgets. *Functional Ecology*, **2017**, 31, 377-386	5.6	85
521	Sampling Bias in Respirometry. *Physiological Zoology*, **1992**, 65, 604-619		85
520	Associations between over-winter survival and resting metabolic rate in juvenile North American red squirrels. *Functional Ecology*, **2010**, 24, 597-607	5.6	84
519	Limits to sustained energy intake. VIII. Resting metabolic rate and organ morphology of laboratory mice lactating at thermoneutrality. *Journal of Experimental Biology*, **2003**, 206, 4283-91	3	84
518	Hibernal Ecology of the Pipistrelle Bat: Energy Expenditure, Water Requirements and Mass Loss, Implications for Survival and the Function of Winter Emergence Flights. *Journal of Animal Ecology*, **1989**, 58, 797	4.7	84
517	Expenditure freeze: the metabolic response of small mammals to cold environments. *Ecology Letters*, **2005**, 8, 1326-1333	10	83
516	Energy expenditure of calorically restricted rats is higher than predicted from their altered body composition. *Mechanisms of Ageing and Development*, **2005**, 126, 783-93	5.6	83
515	Comparison of different approaches for the calculation of energy expenditure using doubly labeled water in a small mammal. *Physiological and Biochemical Zoology*, **2005**, 78, 650-67	2	82
514	The Contributions of Local Heating and Reducing Exposed Surface Area to the Energetic Benefits of Huddling by Short-Tailed Field Voles (Microtus agrestis). *Physiological Zoology*, **1992**, 65, 742-762		82
513	The energetic and oxidative costs of reproduction in a free-ranging rodent. *Functional Ecology*, **2011**, 25, 1063-1071	5.6	81
512	Hypothalamic neuropeptide mechanisms for regulating energy balance: from rodent models to human obesity. *Neuroscience and Biobehavioral Reviews*, **2001**, 25, 101-16	9	81

511	Resting metabolic rate and morphology in mice (Mus musculus) selected for high and low food intake. *Journal of Experimental Biology*, **2001**, 204, 777-84	3	80
510	Roost Selection by the Brown Long-Eared Bat Plecotus auritus. *Journal of Applied Ecology*, **1997**, 34, 399	5.8	79
509	Use of lamplit roads by foraging bats in southern England. *Journal of Zoology*, **1994**, 234, 453-462	2	79
508	Limits to sustained energy intake. *Journal of Experimental Biology*, **2001**, 204, 1967-1977	3	79
507	Reduction in BACE1 decreases body weight, protects against diet-induced obesity and enhances insulin sensitivity in mice. *Biochemical Journal*, **2012**, 441, 285-96	3.8	77
506	Nectar-feeding bats fuel their high metabolism directly with exogenous carbohydrates. *Functional Ecology*, **2007**, 21, 913-921	5.6	77
505	Contribution of different mechanisms to compensation for energy restriction in the mouse. *Obesity* , **2005**, 13, 1548-57		75
504	Accelerometry predicts daily energy expenditure in a bird with high activity levels. *Biology Letters*, **2013**, 9, 20120919	3.6	74
503	Life-long vitamin C supplementation in combination with cold exposure does not affect oxidative damage or lifespan in mice, but decreases expression of antioxidant protection genes. *Mechanisms of Ageing and Development*, **2006**, 127, 897-904	5.6	74
502	Limits to sustained energy intake. *Journal of Experimental Biology*, **2001**, 204, 1937-1946	3	74
501	The energetic consequences of parasitism: effects of a developing infection of Trichostrongylus tenuis (Nematoda) on red grouse (Lagopus lagopus scoticus) energy balance, body weight and condition. *Parasitology*, **1995**, 110, 473-482	2.7	73
500	Calories or protein? The effect of dietary restriction on lifespan in rodents is explained by calories alone. *Experimental Gerontology*, **2016**, 86, 28-38	4.5	71
499	Nutrient routing in omnivorous animals tracked by stable carbon isotopes in tissue and exhaled breath. *Oecologia*, **2008**, 157, 31-40	2.9	71
498	The evolution of flight and echolocation in bats: another leap in the dark. *Mammal Review*, **2001**, 31, 111-130	5	71
497	Limits to sustained energy intake. XIII. Recent progress and future perspectives. *Journal of Experimental Biology*, **2011**, 214, 230-41	3	70
496	The relationship between foraging behaviour and energy expenditure in Antarctic fur seals. *Journal of Zoology*, **1996**, 239, 769-782	2	70
495	Why do Insectivorous Bats in Britain Not Fly in Daylight More Frequently?. *Functional Ecology*, **1991**, 5, 518	5.6	70
494	Metabolic power, mechanical power and efficiency during wind tunnel flight by the European starlingSturnus vulgaris. *Journal of Experimental Biology*, **2001**, 204, 3311-3322	3	70

493	Measuring the Body Composition of Antarctic Fur Seals (Arctocephalus gazella): Validation of Hydrogen Isotope Dilution. *Physiological Zoology*, **1996**, 69, 93-116		66
492	The effects of graded levels of calorie restriction: I. impact of short term calorie and protein restriction on body composition in the C57BL/6 mouse. *Oncotarget*, **2015**, 6, 15902-30	3.3	65
491	Assortative mating for obesity. *American Journal of Clinical Nutrition*, **2007**, 86, 316-23	7	65
490	The energetics of lactation in cooperatively breeding meerkats Suricata suricatta. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2147-53	4.4	65
489	Oxidative damage increases with reproductive energy expenditure and is reduced by food-supplementation. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 1527-36	3.8	64
488	The impact of experimentally elevated energy expenditure on oxidative stress and lifespan in the short-tailed field vole Microtus agrestis. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 1907-16	4.4	64
487	Feeding behaviour in galanin knockout mice supports a role of galanin in fat intake and preference. *Journal of Neuroendocrinology*, **2008**, 20, 199-206	3.8	64
486	Energetic costs of male reproduction in a scramble competition mating system. *Journal of Animal Ecology*, **2010**, 79, 27-34	4.7	63
485	The consequences of acute cold exposure on protein oxidation and proteasome activity in short-tailed field voles, microtus agrestis. *Free Radical Biology and Medicine*, **2002**, 33, 259-65	7.8	63
484	Does body mass play a role in the regulation of food intake?. *Proceedings of the Nutrition Society*, **2002**, 61, 473-87	2.9	62
483	Inter- and Intraindividual Variation in Daily Energy Expenditure of the Pouched Mouse (Saccostomus campestris). *Functional Ecology*, **1994**, 8, 336	5.6	62
482	Limits to sustained energy intake. *Journal of Experimental Biology*, **2001**, 204, 1947-1956	3	62
481	Limits to sustained energy intake. V. Effect of cold-exposure during lactation in Mus musculus. *Journal of Experimental Biology*, **2001**, 204, 1967-77	3	62
480	Measures of Healthspan as Indices of Aging in Mice-A Recommendation. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 427-30	6.4	61
479	Effect of vitamin E supplementation on serum C-reactive protein level: a meta-analysis of randomized controlled trials. *European Journal of Clinical Nutrition*, **2015**, 69, 867-73	5.2	61
478	Evolution of nocturnality in bats: Potential competitors and predators during their early history. *Biological Journal of the Linnean Society*, **1995**, 54, 183-191	1.9	61
477	Mammalian energetics. Flexible energetics of cheetah hunting strategies provide resistance against kleptoparasitism. *Science*, **2014**, 346, 79-81	33.3	60
476	The influence of body condition on sexual development of male Brown long-eared bats (Plecotus auritus) in the wild. *Journal of Zoology*, **2009**, 210, 515-525	2	60

475	Effects of structural and functional habitat gaps on breeding woodland birds: working harder for less. *Landscape Ecology*, **2008**, 23, 615-626	4.3	60
474	Prevention of diet-induced obesity and impaired glucose tolerance in rats following administration of leptin to their mothers. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R1810-8	3.2	60
473	Social and population structure of a gleaning bat, Plecotus auritus. *Journal of Zoology*, **2000**, 252, 11-17	2	60
472	Central Limits to Sustainable Metabolic Rate Have No Role in Cold Acclimation of the Short-Tailed Field Vole (Microtus agrestis). *Physiological Zoology*, **1994**, 67, 1117-1139		60
471	Energetic costs of parasitism in the Cape ground squirrel Xerus inauris. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 2169-77	4.4	59
470	Limits to sustained energy intake. II. Inter-relationships between resting metabolic rate, life-history traits and morphology in Mus musculus. *Journal of Experimental Biology*, **2001**, 204, 1937-46	3	59
469	Age-related variation in energy expenditure in a long-lived bird within the envelope of an energy ceiling. *Journal of Animal Ecology*, **2014**, 83, 136-46	4.7	58
468	Role of Ucp1 enhancer methylation and chromatin remodelling in the control of Ucp1 expression in murine adipose tissue. *Diabetologia*, **2010**, 53, 1164-73	10.3	58
467	Energetics reveals physiologically distinct castes in a eusocial mammal. *Nature*, **2006**, 440, 795-7	50.4	58
466	Effects of reproduction on immuno-suppression and oxidative damage, and hence support or otherwise for their roles as mechanisms underpinning life history trade-offs, are tissue and assay dependent. *Journal of Experimental Biology*, **2013**, 216, 4242-50	3	57
465	The heat dissipation limit theory and evolution of life histories in endotherms--time to dispose of the disposable soma theory?. *Integrative and Comparative Biology*, **2010**, 50, 793-807	2.8	57
464	Association between mammalian lifespan and circadian free-running period: the circadian resonance hypothesis revisited. *Biology Letters*, **2010**, 6, 696-8	3.6	57
463	Evaporative water loss in two sympatric species of vespertilionid bat, Plecotus auritus and Myotis daubentoni: relation to foraging mode and implications for roost site selection. *Journal of Zoology*, **2009**, 235, 269-278	2	57
462	The reproductive cycle and determination of sexual maturity in male brown long-eared bats, Plecotus auritus (Chiroptera: Vespertilionidae). *Journal of Zoology*, **1998**, 244, 63-70	2	56
461	The effects of graded levels of calorie restriction: II. Impact of short term calorie and protein restriction on circulating hormone levels, glucose homeostasis and oxidative stress in male C57BL/6 mice. *Oncotarget*, **2015**, 6, 23213-37	3.3	56
460	Ambient temperature shapes reproductive output during pregnancy and lactation in the common vole (Microtus arvalis): a test of the heat dissipation limit theory. *Journal of Experimental Biology*, **2011**, 214, 38-49	3	55
459	Ranging behaviour and time budgets of male wood mice Apodemus sylvaticus in different habitats and seasons. *Oecologia*, **1997**, 109, 242-250	2.9	55
458	Chronic central administration of apelin-13 over 10 days increases food intake, body weight, locomotor activity and body temperature in C57BL/6 mice. *Journal of Neuroendocrinology*, **2008**, 20, 79-84	3.8	55

457	Nest placement by loggerhead turtles, Caretta caretta. *Animal Behaviour*, **1993**, 45, 47-53	2.8	55
456	Cold adaptation in pigs depends on UCP3 in beige adipocytes. *Journal of Molecular Cell Biology*, **2017**, 9, 364-375	6.3	54
455	Limits to sustained energy intake. XI. A test of the heat dissipation limitation hypothesis in lactating Brandt's voles (Lasiopodomys brandtii). *Journal of Experimental Biology*, **2009**, 212, 3455-65	3	54
454	Roost selection in the pipistrelle bat, Pipistrellus pipistrellus (Chiroptera: Vespertilionidae), in northeast Scotland. *Animal Behaviour*, **1998**, 56, 909-917	2.8	54
453	Activity patterns of insectivorous bats and birds in northern Scandinavia (69° N), during continuous midsummer daylight. *Oikos*, **2000**, 88, 75-86	4	54
452	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. *BMC Genomics*, **2016**, 17, 156	4.5	54
451	Factors influencing the daily energy expenditure of small mammals. *Proceedings of the Nutrition Society*, **1997**, 56, 1119-36	2.9	53
450	The energy cost of echolocation in pipistrelle bats (Pipistrettus pipistrellus). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1989**, 165, 679-685	2.3	53
449	GWAS for BMI: a treasure trove of fundamental insights into the genetic basis of obesity. *International Journal of Obesity*, **2018**, 42, 1524-1531	5.5	52
448	Daily energy expenditure increases in response to low nutritional stress in an Arctic-breeding seabird with no effect on mortality. *Functional Ecology*, **2009**, 23, 1081-1090	5.6	52
447	Non-nutritional maternal support in the brown long-eared bat. *Animal Behaviour*, **1997**, 54, 1193-204	2.8	51
446	Metabolic power of European starlings Sturnus vulgaris during flight in a wind tunnel, estimated from heat transfer modelling, doubly labelled water and mask respirometry. *Journal of Experimental Biology*, **2004**, 207, 4291-8	3	51
445	Foraging energetics of arctic cormorants and the evolution of diving birds. *Ecology Letters*, **2001**, 4, 180-184	1	51
444	Sex difference in physical activity, energy expenditure and obesity driven by a subpopulation of hypothalamic POMC neurons. *Molecular Metabolism*, **2016**, 5, 245-252	8.8	51
443	Nest site selection by sea turtles. *Journal of the Marine Biological Association of the United Kingdom*, **1995**, 75, 667-674	1.1	50
442	Little auks buffer the impact of current Arctic climate change. *Marine Ecology - Progress Series*, **2012**, 454, 197-206	2.6	50
441	Energy Intake and Expenditure of Professional Soccer Players of the English Premier League: Evidence of Carbohydrate Periodization. *International Journal of Sport Nutrition and Exercise Metabolism*, **2017**, 27, 228-238	4.4	49
440	Management of intestinal obstruction in advanced malignancy. *Annals of Medicine and Surgery*, **2015**, 4, 264-70	2	49

439	Validation of the doubly-labelled water technique in the domestic dog (Canis familiaris). *British Journal of Nutrition*, **2001**, 85, 75-87	3.6	49
438	Minimum summer populations and densities of bats in N.E. Scotland, near the northern borders of their distributions. *Journal of Zoology*, **1991**, 225, 327-345	2	49
437	Extreme events reveal an alimentary limit on sustained maximal human energy expenditure. *Science Advances*, **2019**, 5, eaaw0341	14.3	48
436	The impact of acute caloric restriction on the metabolic phenotype in male C57BL/6 and DBA/2 mice. *Mechanisms of Ageing and Development*, **2010**, 131, 111-8	5.6	48
435	Effect of photoperiod on body mass, food intake and body composition in the field vole, Microtus agrestis. *Journal of Experimental Biology*, **2005**, 208, 571-84	3	48
434	Antioxidant enzyme activities, lipid peroxidation, and DNA oxidative damage: the effects of short-term voluntary wheel running. *Archives of Biochemistry and Biophysics*, **2002**, 401, 255-61	4.1	48
433	Metabolic power, mechanical power and efficiency during wind tunnel flight by the European starling Sturnus vulgaris. *Journal of Experimental Biology*, **2001**, 204, 3311-22	3	48
432	Obesity: lessons from evolution and the environment. *Obesity Reviews*, **2012**, 13, 910-22	10.6	47
431	Long-term cold acclimation leads to high Q10 effects on oxygen consumption of loggerhead sea turtles Caretta caretta. *Physiological and Biochemical Zoology*, **2004**, 77, 209-22	2	47
430	Daily Energy Expenditure of Tufted Ducks: A Comparison Between Indirect Calorimetry, Doubly Labelled Water and Heart Rate. *Functional Ecology*, **1995**, 9, 40	5.6	47
429	The Energetics of Reproduction in the Common Shrew (Sorex araneus): A Comparison of Indirect Calorimetry and the Doubly Labeled Water Method. *Physiological Zoology*, **1993**, 66, 964-982		47
428	Functional analysis of seven genes linked to body mass index and adiposity by genome-wide association studies: a review. *Human Heredity*, **2013**, 75, 57-79	1.1	46
427	Oxidative stress in response to natural and experimentally elevated reproductive effort is tissue dependent. *Functional Ecology*, **2014**, 28, 402-410	5.6	46
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