Enrico L Rezende

List of Publications by Year
in descending order

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91 papers	5,852 citations	71061 41 h-index	79644 73 g-index
92 all docs	92 docs citations	92 times ranked	7041 citing authors

#	Article	IF	Citations
1	Phylogenetic approaches in comparative physiology. Journal of Experimental Biology, 2005, 208, 3015-3035.	0.8	584
2	Non-random coextinctions in phylogenetically structured mutualistic networks. Nature, 2007, 448, 925-928.	13.7	470
3	Macrophysiology: A Conceptual Reunification. American Naturalist, 2009, 174, 595-612.	1.0	298
4	Tolerance landscapes in thermal ecology. Functional Ecology, 2014, 28, 799-809.	1.7	272
5	Estimating the adaptive potential of critical thermal limits: methodological problems and evolutionary implications. Functional Ecology, 2011, 25, 111-121.	1.7	214
6	Compartments in a marine food web associated with phylogeny, body mass, and habitat structure. Ecology Letters, 2009, 12, 779-788.	3.0	190
7	Ecological Influences and Morphological Correlates of Resting and Maximal Metabolic Rates across Teleost Fish Species. American Naturalist, 2016, 187, 592-606.	1.0	188
8	CLIMATIC ADAPTATION AND THE EVOLUTION OF BASAL AND MAXIMUM RATES OF METABOLISM IN RODENTS. Evolution; International Journal of Organic Evolution, 2004, 58, 1361-1374.	1.1	179
9	Faster returns on â€˜leaf economicsâ€™ and different biogeochemical niche in invasive compared with native plant species. Global Change Biology, 2010, 16, 2171-2185.	4.2	157
10	Effects of phenotypic complementarity and phylogeny on the nested structure of mutualistic networks. Oikos, 2007, 116, 1919-1929.	1.2	139
11	Baseline and Stressâ€induced Plasma Corticosterone Concentrations of Mice Selectively Bred for High Voluntary Wheel Running. Physiological and Biochemical Zoology, 2007, 80, 146-156.	0.6	122
12	Evolution and plasticity of anuran larval development in response to desiccation. A comparative analysis. Ecology and Evolution, 2011, 1, 15-25.	0.8	109
13	The evolution of jumping performance in anurans: morphological correlates and ecological implications. Journal of Evolutionary Biology, 2009, 22, 1088-1097.	0.8	97
14	Phylogenetic Analyses: Comparing Species to Infer Adaptations and Physiological Mechanisms. , 2012, 2, 639-674.		96
15	Passerinesversusnonpasserines: so far, no statistical differences in the scaling of avian energetics. Journal of Experimental Biology, 2002, 205, 101-107.	0.8	95
16	Making sense of heat tolerance estimates in ectotherms: lessons fromDrosophila. Functional Ecology, 2011, 25, 1169-1180.	1.7	91
17	Voluntary running in deer mice: speed, distance, energy costs and temperature effects. Journal of Experimental Biology, 2004, 207, 3839-3854.	0.8	90
18	Predicting temperature mortality and selection in natural Drosophila populations. Science, 2020, 369, 1242-1245.	6.0	85

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19	Thermal performance across levels of biological organization. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180549.	1.8	83
20	Maximal metabolic rates during voluntary exercise, forced exercise, and cold exposure in house mice selectively bred for high wheel-running. Journal of Experimental Biology, 2005, 208, 2447-2458.	0.8	81
21	Effects of Size, Sex, and Voluntary Running Speeds on Costs of Locomotion in Lines of Laboratory Mice Selectively Bred for High Wheelâ€Running Activity. Physiological and Biochemical Zoology, 2006, 79, 83-99.	0.6	79
22	Maximum aerobic performance in lines of Mus selected for high wheel-running activity: effects of selection, oxygen availability and the mini-muscle phenotype. Journal of Experimental Biology, 2006, 209, 115-127.	0.8	75
23	Resting vs. active: a metaâ€analysis of the intraâ€and interâ€specific associations between minimum, sustained, and maximum metabolic rates in vertebrates. Functional Ecology, 2017, 31, 1728-1738.	1.7	74
24	Heat tolerance inDrosophila subobscuraalong a latitudinal gradient: Contrasting patterns between plastic and genetic responses. Evolution; International Journal of Organic Evolution, 2015, 69, 2721-2734.	1.1	73
25	Running Behavior and Its Energy Cost in Mice Selectively Bred for High Voluntary Locomotor Activity. Physiological and Biochemical Zoology, 2009, 82, 662-679.	0.6	72
26	Maximal oxygen consumption in relation to subordinate traits in lines of house mice selectively bred for high voluntary wheel running. Journal of Applied Physiology, 2006, 101, 477-485.	1.2	71
27	Passerines versus nonpasserines: so far, no statistical differences in the scaling of avian energetics. Journal of Experimental Biology, 2002, 205, 101-7.	0.8	69
28	When Nonshivering Thermogenesis Equals Maximum Metabolic Rate: Thermal Acclimation and Phenotypic Plasticity of FossorialSpalacopus cyanus(Rodentia). Physiological and Biochemical Zoology, 2001, 74, 325-332.	0.6	65
29	CLINAL PATTERNS OF CHROMOSOMAL INVERSION POLYMORPHISMS INDROSOPHILA SUBOBSCURAARE PARTLY ASSOCIATED WITH THERMAL PREFERENCES AND HEAT STRESS RESISTANCE. Evolution; International Journal of Organic Evolution, 2010, 64, 385-397.	1.1	60
30	Thermoregulation in endotherms: physiological principles and ecological consequences. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 709-727.	0.7	58
31	The role of body mass in diet contiguity and food-web structure. Journal of Animal Ecology, 2011, 80, 632-639.	1.3	57
32	Thermal tolerance and climate warming sensitivity in tropical snails. Ecology and Evolution, 2015, 5, 5905-5919.	0.8	55
33	Climate change and chromosomal inversions in Drosophila subobscura. Climate Research, 2010, 43, 103-114.	0.4	55
34	The interactions between temperature and activity levels in driving metabolic rate: theory, with empirical validation from contrasting ectotherms. Oecologia, 2015, 177, 1117-1129.	0.9	54
35	ACTIVITY AND SPACE USE BY DEGUS: A TRADE-OFF BETWEEN THERMAL CONDITIONS AND FOOD AVAILABILITY?. Journal of Mammalogy, 2003, 84, 311-318.	0.6	53
36	Contractile abilities of normal and â€œminiâ€•triceps surae muscles from mice (Mus domesticus) selectively bred for high voluntary wheel running. Journal of Applied Physiology, 2005, 99, 1308-1316.	1.2	52

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37	Ambient temperature limits above-ground activity of the subterranean rodent Spalacopus cyanus. Journal of Arid Environments, 2003, 55, 63-74.	1.2	51
38	Mice selectively bred for high voluntary wheel running have larger midbrains: support for the mosaic model of brain evolution. Journal of Experimental Biology, 2013, 216, 515-523.	0.8	51
39	Glycogen storage and muscle glucose transporters (GLUT-4) of mice selectively bred for high voluntary wheel running. Journal of Experimental Biology, 2009, 212, 238-248.	0.8	49
40	Mutualistic interactions reshuffle the effects of climate change on plants across the tree of life. Science Advances, 2019, 5, eaav2539.	4.7	49
41	Heat tolerance in ectotherms scales predictably with body size. Nature Climate Change, 2021, 11, 58-63.	8.1	49
42	Leptin Levels and Body Composition of Mice Selectively Bred for High Voluntary Locomotor Activity. Physiological and Biochemical Zoology, 2007, 80, 568-579.	0.6	47
43	Cold-acclimation in Peromyscus: temporal effects and individual variation in maximum metabolism and ventilatory traits. Journal of Experimental Biology, 2004, 207, 295-305.	0.8	46
44	Thermal strategies vary with life history stage. Journal of Experimental Biology, 2018, 221, .	0.8	45
45	On the reliability of visual communication in vertebrateâ€dispersed fruits. Journal of Ecology, 2012, 100, 277-286.	1.9	42
46	Hsp70 protein levels and thermotolerance in Drosophila subobscura: a reassessment of the thermal coâ€adaptation hypothesis. Journal of Evolutionary Biology, 2012, 25, 691-700.	0.8	41
47	Age and aerobic performance in deer mice. Journal of Experimental Biology, 2003, 206, 1221-1231.	0.8	37
48	Body size, reef area and temperature predict global reefâ€fish species richness across spatial scales. Global Ecology and Biogeography, 2019, 28, 315-327.	2.7	37
49	Keeping pace with climate change: what is wrong with the evolutionary potential of upper thermal limits?. Ecology and Evolution, 2012, 2, 2866-2880.	0.8	36
50	Vanishing Chromosomal Inversion Clines inDrosophila subobscurafrom Chile: Is Behavioral Thermoregulation to Blame?. American Naturalist, 2013, 182, 249-259.	1.0	33
51	Shrinking dinosaurs and the evolution of endothermy in birds. Science Advances, 2020, 6, eaaw4486.	4.7	32
52	Deer Mouse Aerobic Performance across Altitudes: Effects of Developmental History and Temperature Acclimation. Physiological and Biochemical Zoology, 2007, 80, 652-662.	0.6	30
53	Effects of amphibian phylogeny, climate and human impact on the occurrence of the amphibianâ€killing chytrid fungus. Global Change Biology, 2017, 23, 3543-3553.	4.2	30
54	Genetic constraints for thermal coadaptation in Drosophila subobscura. BMC Evolutionary Biology, 2010, 10, 363.	3.2	27

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55	Biogeographic, historical and environmental influences on the taxonomic and functional structure of <scp>A</scp>tlantic reef fish assemblages. Global Ecology and Biogeography, 2013, 22, 1173-1182.	2.7	25
56	Dynamic Thermal Balance in the Leafâ€Eared Mouse: The Interplay among Ambient Temperature, Body Size, and Behavior. Physiological and Biochemical Zoology, 2002, 75, 396-404.	0.6	24
57	Thorson's rule, lifeâ€history evolution, and diversification of benthic octopuses (Cephalopoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	24
58	Renal morphology, phylogenetic history and desert adaptation of South American hystricognath rodents. Functional Ecology, 2006, 20, 609-620.	1.7	22
59	Development partly determines the aerobic performance of adult deer mice, Peromyscus maniculatus. Journal of Experimental Biology, 2008, 211, 35-41.	0.8	22
60	Climate Change and Thermoregulatory Consequences of Activity Time in Mammals. American Naturalist, 2020, 196, 45-56.	1.0	21
61	Heterothermy as the Norm, Homeothermy as the Exception: Variable Torpor Patterns in the South American Marsupial Monito del Monte (Dromiciops gliroides). Frontiers in Physiology, 2021, 12, 682394.	1.3	21
62	Contrasting patterns of phenotypic variation linked to chromosomal inversions in native and colonizing populations of Drosophila subobscura. Journal of Evolutionary Biology, 2010, 23, 112-123.	0.8	19
63	Measurement error in heat tolerance assays. Journal of Thermal Biology, 2012, 37, 432-437.	1.1	18
64	Biological trade-offs underpin coral reef ecosystem functioning. Nature Ecology and Evolution, 2022, 6, 701-708.	3.4	18
65	Does thermal history affect metabolic plasticity?: a study in three Phyllotis species along an altitudinal gradient. Journal of Thermal Biology, 2001, 26, 103-108.	1.1	17
66	Thermal effects vary predictably across levels of organization: empirical results and theoretical basis. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20202508.	1.2	15
67	Patterns of daily activity in the leaf-eared mouse (Phyllotis darwini): effects of food availability. Journal of Arid Environments, 2001, 47, 95-100.	1.2	13
68	An evolutionary frame of work to study physiological adaptation to high altitudes. Revista Chilena De Historia Natural, 2005, 78, 323.	0.5	13
69	Energetic mechanisms for coping with changes in resource availability. Biology Letters, 2020, 16, 20200580.	1.0	13
70	Standard and Comparative Energetics of a Small Avian Herbivore (Phytotoma rara). Auk, 2001, 118, 781-785.	0.7	12
71	CLIMATIC ADAPTATION AND THE EVOLUTION OF BASAL AND MAXIMUM RATES OF METABOLISM IN RODENTS. Evolution; International Journal of Organic Evolution, 2004, 58, 1361.	1.1	12
72	Cold acclimation in Peromyscus: individual variation and sex effects in maximum and daily metabolism, organ mass and body composition. Journal of Experimental Biology, 2009, 212, 2795-2802.	0.8	12

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73	Exercise training effects on hypoxic and hypercapnic ventilatory responses in mice selected for increased voluntary wheel running. Experimental Physiology, 2014, 99, 403-413.	0.9	12
74	Winter is coming: Food web structure and seasonality in a subtropical freshwater coastal lake. Ecology and Evolution, 2017, 7, 4534-4542.	0.8	12
75	Comment on â€˜Ecologically relevant measures of tolerance to potentially lethal temperaturesâ€™. Journal of Experimental Biology, 2012, 215, 702-703.	0.8	11
76	Introduced Drosophila subobscura populations perform better than native populations during an oviposition choice task due to increased fecundity but similar learning ability. Ecology and Evolution, 2016, 6, 1725-1736.	0.8	11
77	Rapid withinâ€•and transgenerational changes in thermal tolerance and fitness in variable thermal landscapes. Ecology and Evolution, 2020, 10, 8105-8113.	0.8	10
78	Spatial and temporal shift in the factors affecting the population dynamics of Calanus copepods in the North Sea. Global Change Biology, 2021, 27, 576-586.	4.2	9
79	Doubleâ€blind peer reviewâ€”An experiment. Functional Ecology, 2019, 33, 4-6.	1.7	8
80	Body size variation in polyplacophoran molluscs: Geographical clines and community structure along the southâ€eastern Pacific. Global Ecology and Biogeography, 2021, 30, 1781-1795.	2.7	8
81	Thermal tolerance in Drosophila: Repercussions for distribution, community coexistence and responses to climate change. Journal of Animal Ecology, 2022, 91, 655-667.	1.3	7
82	Better Oxygen Delivery. Science, 2013, 340, 1293-1294.	6.0	6
83	Quantitative Genetic Modeling of the Parental Care Hypothesis for the Evolution of Endothermy. Frontiers in Physiology, 2017, 8, 1005.	1.3	6
84	Sexual Selection and the Evolution of Male Reproductive Traits in Benthic Octopuses. Frontiers in Physiology, 2019, 10, 1238.	1.3	6
85	Coral reef fishes reveal strong divergence in the prevalence of traits along the global diversity gradient. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211712.	1.2	6
86	Effects of phenotypic complementarity and phylogeny on the nested structure of mutualistic networks. Oikos, 2007, 116, 1919-1929.	1.2	4
87	The Role of Gastrolites on Feeding Behavior and Digestive Efficiency in the Rufous-Collared Sparrow. Condor, 2000, 102, 465-469.	0.7	3
88	Heat Tolerance, Energetics, and Thermal Treatments of Honeybees Parasitized With Varroa. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	3
89	Divergence in Thermal Physiology Could Contribute to Vertical Segregation in Intertidal Ecotypes of Littorina saxatilis. Physiological and Biochemical Zoology, 2021, 94, 353-365.	0.6	3
90	THE ROLE OF GASTROLITES ON FEEDING BEHAVIOR AND DIGESTIVE EFFICIENCY IN THE RUFOUS-COLLARED SPARROW. Condor, 2000, 102, 465.	0.7	3

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91	Phylogenies and Stats: Putting Evolution into NumbersModern Phylogenetic Comparative Methods and Their Application in Evolutionary Biology. Edited by LÃ¡szlÃ³ Zsolt Garamszegi. Heidelberg: Springer, 2014. ISBN 978-3-662-43549-6.. Physiological and Biochemical Zoology, 2015, 88, 586-587.	0.6	0