

Frank van Breukelen

List of Publications by Citations

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34
papers

533
citations

12
h-index

22
g-index

35
ext. papers

615
ext. citations

2.9
avg, IF

3.87
L-index

#	Paper	IF	Citations
34	Invited review: molecular adaptations in mammalian hibernators: unique adaptations or generalized responses?. <i>Journal of Applied Physiology</i> , 2002 , 92, 2640-7	3.7	99
33	Translational initiation is uncoupled from elongation at 18 degrees C during mammalian hibernation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001 , 281, R1374-9	3.2	94
32	The Hibernation Continuum: Physiological and Molecular Aspects of Metabolic Plasticity in Mammals. <i>Physiology</i> , 2015 , 30, 273-81	9.8	61
31	Proteolysis is depressed during torpor in hibernators at the level of the 20S core protease. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2005 , 175, 329-35	2.2	37
30	Vertebrate cell death in energy-limited conditions and how to avoid it: what we might learn from mammalian hibernators and other stress-tolerant vertebrates. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010 , 15, 386-99	5.4	30
29	Bone strength is maintained after 8 months of inactivity in hibernating golden-mantled ground squirrels, <i>Spermophilus lateralis</i> . <i>Journal of Experimental Biology</i> , 2009 , 212, 2746-52	3	28
28	A comparison of voluntary and forced exercise in protecting against behavioral asymmetry in a juvenile hemiparkinsonian rat model. <i>Behavioural Brain Research</i> , 2013 , 248, 121-8	3.4	21
27	Ubiquitylation of proteins in livers of hibernating golden-mantled ground squirrels, <i>Spermophilus lateralis</i> . <i>Cryobiology</i> , 2007 , 55, 230-5	2.7	20
26	Extreme physiological plasticity in a hibernating basoendothermic mammal,. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	17
25	Paradoxical anaerobism in desert pupfish. <i>Journal of Experimental Biology</i> , 2015 , 218, 3739-45	3	15
24	Forced exercise before or after induction of 6-OHDA-mediated nigrostriatal insult does not mitigate behavioral asymmetry in a hemiparkinsonian rat model. <i>Brain Research</i> , 2014 , 1543, 263-70	3.7	14
23	Effects of chlorpyrifos and trichloropyridinol on HEK 293 human embryonic kidney cells. <i>Chemosphere</i> , 2018 , 191, 537-547	8.4	12
22	A systems-level approach to understanding transcriptional regulation by p53 during mammalian hibernation. <i>Journal of Experimental Biology</i> , 2014 , 217, 2489-98	3	11
21	Prematurely induced arousal from hibernation alters key aspects of warming in golden-mantled ground squirrels, <i>Callospermophilus lateralis</i> . <i>Journal of Thermal Biology</i> , 2013 , 38, 570-575	2.9	10
20	Systematic approach to isolating <i>Batrachochytrium dendrobatidis</i> . <i>Diseases of Aquatic Organisms</i> , 2018 , 127, 243-247	1.7	10
19	Population-Level Resistance to Chytridiomycosis is Life-Stage Dependent in an Imperiled Anuran. <i>EcoHealth</i> , 2019 , 16, 701-711	3.1	8
18	<i>Batrachochytrium dendrobatidis</i> and the Decline and Survival of the Relict Leopard Frog. <i>EcoHealth</i> , 2017 , 14, 285-295	3.1	8

17	The gut microbiome and its potential role in paradoxical anaerobism in pupfishes of the Mojave Desert. <i>Animal Microbiome</i> , 2020 , 2, 20	4.1	7
16	Construction of a low cost and highly sensitive direct heat calorimeter suitable for estimating metabolic rate in small animals. <i>Journal of Thermal Biology</i> , 2013 , 38, 508-512	2.9	6
15	Temporal and temperature effects on the maximum rate of rewarming from hibernation. <i>Journal of Thermal Biology</i> , 2007 , 32, 276-281	2.9	6
14	Care and propagation of captive pupfish from the genus <i>Cyprinodon</i> : insight into conservation. <i>Environmental Biology of Fishes</i> , 2019 , 102, 1015-1024	1.6	4
13	One year in the life of <i>Bufo punctatus</i> : annual patterns of body temperature in a free-ranging desert anuran. <i>Die Naturwissenschaften</i> , 2008 , 95, 531-5	2	4
12	Oxygen consumption of desert pupfish at ecologically relevant temperatures suggests a significant role for anaerobic metabolism. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018 , 188, 821-830	2.2	4
11	Oxygen Consumption is Limited at an Ecologically Relevant Rearing Temperature in Pupfish Eggs. <i>Journal of Experimental Zoology</i> , 2016 , 325, 539-547		3
10	Applying systems-level approaches to elucidate regulatory function during mammalian hibernation. <i>Temperature</i> , 2016 , 3, 524-526	5.2	1
9	A refined technique for sciatic denervation in a golden-mantled ground squirrel (<i>Callospermophilus lateralis</i>) model of disuse atrophy. <i>Lab Animal</i> , 2014 , 43, 203-6	0.4	1
8	Desert Survivors: the design and implementation of a television program to enhance local scientific literacy. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2007 , 31, 1-4	1.9	1
7	Epigenomics as a paradigm to understand the nuances of phenotypes.. <i>Journal of Experimental Biology</i> , 2022 , 225,	3	1
6	Liver proteome response to torpor in a basoendothermic mammal, , provides insights into the evolution of homeothermy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 321, R614-R624	3.2	0
5	Dysregulation of SUMOylation During Hibernation. <i>FASEB Journal</i> , 2008 , 22, 757.31	0.9	
4	IRES mediated initiation of translation during mammalian hibernation. <i>FASEB Journal</i> , 2008 , 22, 757.30	0.9	
3	Natural versus induced arousal from torpor: differences in fuel utilization and rewarming dynamics. <i>FASEB Journal</i> , 2008 , 22, 107-107	0.9	
2	Physiological implications of natural versus induced arousal from torpor. <i>FASEB Journal</i> , 2010 , 24, 1055.169		
1	THE EFFECTS OF GLOBAL CLIMATE CHANGE ON THE ENERGETICS OF AN ENDANGERED DESERT PUPFISH. <i>FASEB Journal</i> , 2011 , 25, 1b529	0.9	