

Frank van Breukelen

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

699
citations

623699

14
h-index

552766

26
g-index

35
all docs

35
docs citations

35
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Translational initiation is uncoupled from elongation at 18°C during mammalian hibernation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R1374-R1379.	1.8	116
2	Invited Review: Molecular adaptations in mammalian hibernators: unique adaptations or generalized responses?. <i>Journal of Applied Physiology</i> , 2002, 92, 2640-2647.	2.5	116
3	The Hibernation Continuum: Physiological and Molecular Aspects of Metabolic Plasticity in Mammals. <i>Physiology</i> , 2015, 30, 273-281.	3.1	81
4	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, 329-335.	1.5	42
5	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, 2746-2752.	1.7	38
6	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, 386-399.	4.9	34
7	Ubiquitylation of proteins in livers of hibernating golden-mantled ground squirrels, <i>Spermophilus lateralis</i> . <i>Cryobiology</i> , 2007, 55, 230-235.	0.7	26
8	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, 121-128.	2.2	24
9	Paradoxical anaerobism in desert pupfish. <i>Journal of Experimental Biology</i> , 2015, 218, 3739-3745.	1.7	21
10	The gut microbiome and its potential role in paradoxical anaerobism in pupfishes of the Mojave Desert. <i>Animal Microbiome</i> , 2020, 2, 20.	3.8	20
11	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, 263-270.	2.2	19
12	Effects of chlorpyrifos and trichloropyridinol on HEK 293 human embryonic kidney cells. <i>Chemosphere</i> , 2018, 191, 537-547.	8.2	19
13	Extreme physiological plasticity in a hibernating basoendothermic mammal, <i>Tenrec ecaudatus</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	19
14	Population-Level Resistance to Chytridiomycosis is Life-Stage Dependent in an Imperiled Anuran. <i>EcoHealth</i> , 2019, 16, 701-711.	2.0	17
15	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.	2.5	14
16	A systems-level approach to understanding transcriptional regulation by p53 during mammalian hibernation. <i>Journal of Experimental Biology</i> , 2014, 217, 2489-2498.	1.7	14
17	Systematic approach to isolating <i>Batrachochytrium dendrobatidis</i> . <i>Diseases of Aquatic Organisms</i> , 2018, 127, 243-247.	1.0	13
18	Temporal and temperature effects on the maximum rate of rewarming from hibernation. <i>Journal of Thermal Biology</i> , 2007, 32, 276-281.	2.5	12

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19	Batrachochytrium dendrobatidis and the Decline and Survival of the Relict Leopard Frog. <i>EcoHealth</i> , 2017, 14, 285-295.	2.0	12
20	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.	2.5	8
21	Epigenomics as a paradigm to understand the nuances of phenotypes. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	7
22	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, 531-535.	1.6	6
23	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.	1.5	6
24	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.	1.0	5
25	Oxygen Consumption is Limited at an Ecologically Relevant Rearing Temperature in Pupfish Eggs. <i>Journal of Experimental Zoology</i> , 2016, 325, 539-547.	1.2	3
26	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.	1.6	2
27	A refined technique for sciatic denervation in a golden-mantled ground squirrel (<i>Callospermophilus</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	2
28	Applying systems-level approaches to elucidate regulatory function during mammalian hibernation. <i>Temperature</i> , 2016, 3, 524-526.	3.0	2
29	Liver proteome response to torpor in a basoendothermic mammal, <i>Tenrec ecaudatus</i> , provides insights into the evolution of homeothermy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R614-R624.	1.8	1
30	Dysregulation of SUMOylation During Hibernation. <i>FASEB Journal</i> , 2008, 22, 757.31.	0.5	0
31	IRES mediated initiation of translation during mammalian hibernation. <i>FASEB Journal</i> , 2008, 22, 757.30.	0.5	0
32	Natural versus induced arousal from torpor: differences in fuel utilization and rewarming dynamics. <i>FASEB Journal</i> , 2008, 22, 107-107.	0.5	0
33	Physiological implications of natural versus induced arousal from torpor. <i>FASEB Journal</i> , 2010, 24, 1055.16.	0.5	0
34	THE EFFECTS OF GLOBAL CLIMATE CHANGE ON THE ENERGETICS OF AN ENDANGERED DESERT PUPFISH. <i>FASEB Journal</i> , 2011, 25, 1b529.	0.5	0