

James S Waters

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,082
citations

623734

14
h-index

839539

18
g-index

24
all docs

24
docs citations

24
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic scaling of fire ants (<i>Solenopsis invicta</i>) engaged in collective behaviors. <i>Biology Open</i> , 2022, 11, .	1.2	4
2	Pedal to the metal: Cities power evolutionary divergence by accelerating metabolic rate and locomotor performance. <i>Evolutionary Applications</i> , 2021, 14, 36-52.	3.1	14
3	Integrating GWAS and Transcriptomics to Identify the Molecular Underpinnings of Thermal Stress Responses in <i>Drosophila melanogaster</i> . <i>Frontiers in Genetics</i> , 2020, 11, 658.	2.3	30
4	A novel ex vivo method for measuring whole brain metabolism in model systems. <i>Journal of Neuroscience Methods</i> , 2018, 296, 32-43.	2.5	25
5	Developmental plasticity and stability in the tracheal networks supplying <i>Drosophila</i> flight muscle in response to rearing oxygen level. <i>Journal of Insect Physiology</i> , 2018, 106, 189-198.	2.0	19
6	Exploring nest structures of acorn dwelling ants with X-ray microtomography and surface-based three-dimensional visibility graph analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170237.	4.0	15
7	Patterns of Tracheal Compression in the Thorax of the Ground Beetle,. <i>Yale Journal of Biology and Medicine</i> , 2018, 91, 409-430.	0.2	0
8	Differentiating causality and correlation in allometric scaling: ant colony size drives metabolic hypometry. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162582.	2.6	15
9	An Experimental Test of Colony Size Effects on Mass-Specific Metabolic Rate in a Social Insect. <i>FASEB Journal</i> , 2016, 30, 1229.2.	0.5	0
10	Collective Behavior and the Respiratory Physiology of Social Insect Colonies. <i>FASEB Journal</i> , 2015, 29, LB643.	0.5	0
11	Theoretical and empirical perspectives on the scaling of supply and demand in social insect colonies. <i>Entomologia Experimentalis Et Applicata</i> , 2014, 150, 99-112.	1.4	6
12	Response to comments on the dynamics of network dynamics. <i>Behavioral Ecology</i> , 2014, 25, 260-261.	2.2	0
13	The dynamics of animal social networks: analytical, conceptual, and theoretical advances. <i>Behavioral Ecology</i> , 2014, 25, 242-255.	2.2	340
14	Critical PO ₂ is size-independent in insects: implications for the metabolic theory of ecology. <i>Current Opinion in Insect Science</i> , 2014, 4, 54-59.	4.4	27
15	Dynamics of tracheal compression in the horned passalus beetle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R621-R627.	1.8	17
16	How Locusts Breathe. <i>Physiology</i> , 2013, 28, 18-27.	3.1	56
17	Basketball Teams as Strategic Networks. <i>PLoS ONE</i> , 2012, 7, e47445.	2.5	110
18	Information Processing in Social Insect Networks. <i>PLoS ONE</i> , 2012, 7, e40337.	2.5	91

#	ARTICLE	IF	CITATIONS
19	Effects of temperature on responses to anoxia and oxygen reperfusion in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2011, 214, 1271-1275.	1.7	22
20	Allometric Scaling of Metabolism, Growth, and Activity in Whole Colonies of the Seed-Harvester Ant <i>Pogonomyrmex californicus</i> . <i>American Naturalist</i> , 2010, 176, 501-510.	2.1	93
21	Correlated patterns of tracheal compression and convective gas exchange in a carabid beetle. <i>Journal of Experimental Biology</i> , 2008, 211, 3409-3420.	1.7	70
22	Real-time phase-contrast x-ray imaging: a new technique for the study of animal form and function. <i>BMC Biology</i> , 2007, 5, 6.	3.8	117