

Alan M Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

4,320
citations

101543

36
h-index

110387

64
g-index

78
all docs

78
docs citations

78
times ranked

4040
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of artificial water provision on migratory blue wildebeest and zebra in the Makgadikgadi Pans ecosystem, Botswana. <i>Biological Conservation</i> , 2022, 268, 109502.	4.1	1
2	There and back again - a zebra's tale. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	3
3	Artificial mass loading disrupts stable social order in pigeon dominance hierarchies. <i>Biology Letters</i> , 2020, 16, 20200468.	2.3	12
4	Scent-marking strategies of a solitary carnivore: boundary and road scent marking in the leopard. <i>Animal Behaviour</i> , 2020, 161, 115-126.	1.9	15
5	The locomotor kinematics and ground reaction forces of walking giraffes. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	32
6	Ground reaction forces of overground galloping in ridden Thoroughbred racehorses. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	16
7	Possible causes of divergent population trends in sympatric African herbivores. <i>PLoS ONE</i> , 2019, 14, e0213720.	2.5	7
8	External mechanical work in the galloping racehorse. <i>Biology Letters</i> , 2019, 15, 20180709.	2.3	8
9	Parsimonious test of dynamic interaction. <i>Ecology and Evolution</i> , 2019, 9, 1654-1664.	1.9	4
10	Terrestrial mammalian wildlife responses to Unmanned Aerial Systems approaches. <i>Scientific Reports</i> , 2019, 9, 2142.	3.3	49
11	Energy turnover in mammalian skeletal muscle in contractions mimicking locomotion: effects of stimulus pattern on work, impulse and energetic cost and efficiency. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	6
12	Movement patterns and athletic performance of leopards in the Okavango Delta. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172622.	2.6	9
13	Biomechanics of predator–prey arms race in lion, zebra, cheetah and impala. <i>Nature</i> , 2018, 554, 183-188.	27.8	130
14	Remarkable muscles, remarkable locomotion in desert-dwelling wildebeest. <i>Nature</i> , 2018, 563, 393-396.	27.8	28
15	An exploratory clustering approach for extracting stride parameters from tracking collars on free ranging wild animals. <i>Journal of Experimental Biology</i> , 2017, 220, 341-346.	1.7	12
16	Does wildlife resource selection accurately inform corridor conservation?. <i>Journal of Applied Ecology</i> , 2017, 54, 412-422.	4.0	88
17	Dynamics of direct inter-pack encounters in endangered African wild dogs. <i>Behavioral Ecology and Sociobiology</i> , 2017, 71, 1.	1.4	20
18	Lessons from integrating behaviour and resource selection: activity-specific responses of African wild dogs to roads. <i>Animal Conservation</i> , 2016, 19, 247-255.	2.9	80

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19	Additive opportunistic capture explains group hunting benefits in African wild dogs. <i>Nature Communications</i> , 2016, 7, 11033.	12.8	34
20	Energy cost and return for hunting in African wild dogs and cheetahs. <i>Nature Communications</i> , 2016, 7, 11034.	12.8	59
21	R. McNeill Alexander (1934–2016). <i>Nature</i> , 2016, 532, 442-442.	27.8	0
22	Determining position, velocity and acceleration of free-ranging animals with a low-cost unmanned aerial system. <i>Journal of Experimental Biology</i> , 2016, 219, 2687-92.	1.7	6
23	Improving the accuracy of estimates of animal path and travel distance using GPS drift-corrected dead reckoning. <i>Ecology and Evolution</i> , 2016, 6, 6210-6222.	1.9	24
24	Intermittent applied mechanical loading induces subchondral bone thickening that may be intensified locally by contiguous articular cartilage lesions. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 940-948.	1.3	66
25	Matching times of leading and following suggest cooperation through direct reciprocity during V-formation flight in ibis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2115-2120.	7.1	104
26	Skinned fibres produce the same power and force as intact fibre bundles from muscle of wild rabbits. <i>Journal of Experimental Biology</i> , 2015, 218, 2856-63.	1.7	15
27	Solving the shepherding problem: heuristics for herding autonomous, interacting agents. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140719.	3.4	140
28	Upwash exploitation and downwash avoidance by flap phasing in ibis formation flight. <i>Nature</i> , 2014, 505, 399-402.	27.8	272
29	Locomotion dynamics of hunting in wild cheetahs. <i>Nature</i> , 2013, 498, 185-189.	27.8	344
30	Group hunting within the Carnivora: physiological, cognitive and environmental influences on strategy and cooperation. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 1-17.	1.4	153
31	Power output of skinned skeletal muscle fibres from the cheetah (<i>Acinonyx jubatus</i>). <i>Journal of Experimental Biology</i> , 2013, 216, 2974-82.	1.7	18
32	Mechanical and energetic scaling relationships of running gait through ontogeny in the ostrich (<i>Struthio camelus</i>). <i>Journal of Experimental Biology</i> , 2012, 216, 841-9.	1.7	16
33	Speed, pacing strategy and aerodynamic drafting in Thoroughbred horse racing. <i>Biology Letters</i> , 2012, 8, 678-681.	2.3	30
34	High speed galloping in the cheetah (<i>Acinonyx jubatus</i>) and the racing greyhound (<i>Canis</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> 2425-2434.	1.7	125
35	Data-loggers carried on a harness do not adversely affect sheep locomotion. <i>Research in Veterinary Science</i> , 2012, 93, 549-552.	1.9	12
36	Selfish-herd behaviour of sheep under threat. <i>Current Biology</i> , 2012, 22, R561-R562.	3.9	114

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37	Flying in a flock comes at a cost in pigeons. <i>Nature</i> , 2011, 474, 494-497.	27.8	118
38	Functional anatomy of the cheetah (<i>Acinonyx jubatus</i>) hindlimb. <i>Journal of Anatomy</i> , 2011, 218, 363-374.	1.5	85
39	Functional anatomy of the cheetah (<i>Acinonyx jubatus</i>) forelimb. <i>Journal of Anatomy</i> , 2011, 218, 375-385.	1.5	67
40	Determining association networks in social animals: choosing spatial-temporal criteria and sampling rates. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1659-1668.	1.4	54
41	The anatomical arrangement of muscle and tendon enhances limb versatility and locomotor performance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 1540-1553.	4.0	59
42	Grip and limb force limits to turning performance in competition horses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2105-2111.	2.6	46
43	The Biomechanics of the Equine Limb and Its Effect on Lameness. , 2011, , 270-281.		9
44	A wearable and flexible Bracelet computer for on-body sensing. , 2011, , .		12
45	Ontogenetic scaling of locomotor kinetics and kinematics of the ostrich (<i>Struthio camelus</i>). <i>Journal of Experimental Biology</i> , 2010, 213, 1347-1355.	1.7	33
46	Towards Precise Synchronisation in Wireless Sensor Networks. , 2010, , .		1
47	Modern Riding Style Improves Horse Racing Times. <i>Science</i> , 2009, 325, 289-289.	12.6	70
48	Evaluation of in vitro performance of suction drains. <i>American Journal of Veterinary Research</i> , 2009, 70, 283-289.	0.6	12
49	Pitch then power: limitations to acceleration in quadrupeds. <i>Biology Letters</i> , 2009, 5, 610-613.	2.3	54
50	Intensity of activation and timing of deactivation modulate elastic energy storage and release in a pennate muscle and account for gait-specific initiation of limb protraction in the horse. <i>Journal of Experimental Biology</i> , 2009, 212, 2454-2463.	1.7	11
51	The consistency of maximum running speed measurements in humans using a feedback-controlled treadmill, and a comparison with maximum attainable speed during overground locomotion. <i>Journal of Biomechanics</i> , 2009, 42, 2569-2574.	2.1	18
52	Walk-run classification of symmetrical gaits in the horse: a multidimensional approach. <i>Journal of the Royal Society Interface</i> , 2009, 6, 335-342.	3.4	21
53	A hidden Markov model-based stride segmentation technique applied to equine inertial sensor trunk movement data. <i>Journal of Biomechanics</i> , 2008, 41, 216-220.	2.1	38
54	Measurement of stride parameters using a wearable GPS and inertial measurement unit. <i>Journal of Biomechanics</i> , 2008, 41, 1398-1406.	2.1	63

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55	Physical activity: does long-term, high-intensity exercise in horses result in tendon degeneration?. <i>Journal of Applied Physiology</i> , 2008, 105, 1927-1933.	2.5	47
56	Mechanics of cutting maneuvers by ostriches (<i>Struthio camelus</i>). <i>Journal of Experimental Biology</i> , 2007, 210, 1378-1390.	1.7	41
57	Mechanics of dog walking compared with a passive, stiff-limbed, 4-bar linkage model, and their collisional implications. <i>Journal of Experimental Biology</i> , 2007, 210, 533-540.	1.7	38
58	Gait characterisation and classification in horses. <i>Journal of Experimental Biology</i> , 2007, 210, 187-197.	1.7	109
59	Animal locomotion. <i>Journal of Biomechanics</i> , 2007, 40, S3.	2.1	0
60	The Determination of Muscle Volume with A Freehand 3D Ultrasonography System. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 402-407.	1.5	32
61	The role of biomechanics in the study of conformation and its relationship to orthopaedic health. <i>Equine Veterinary Journal</i> , 2007, 39, 14-16.	1.7	0
62	Accounting for elite indoor 200m sprint results. <i>Biology Letters</i> , 2006, 2, 47-50.	2.3	53
63	A comparison of three-dimensional ultrasound, two-dimensional ultrasound and dissections for determination of lesion volume in tendons. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 797-804.	1.5	11
64	Centre of mass movement and mechanical energy fluctuation during gallop locomotion in the Thoroughbred racehorse. <i>Journal of Experimental Biology</i> , 2006, 209, 3742-3757.	1.7	74
65	Accuracy of WAAS-enabled GPS for the determination of position and speed over ground. <i>Journal of Biomechanics</i> , 2005, 38, 1717-1722.	2.1	92
66	No force limit on greyhound sprint speed. <i>Nature</i> , 2005, 438, 753-754.	27.8	103
67	Prediction of kinetics and kinematics of running animals using an analytical approximation to the planar spring-mass system. <i>Journal of Experimental Biology</i> , 2005, 208, 4377-4389.	1.7	22
68	A method for deriving displacement data during cyclical movement using an inertial sensor. <i>Journal of Experimental Biology</i> , 2005, 208, 2503-2514.	1.7	157
69	A catapult action for rapid limb protraction. <i>Nature</i> , 2003, 421, 35-36.	27.8	104
70	The effect of gait and digital flexor muscle activation on limb compliance in the forelimb of the horse <i>Equus caballus</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 1325-1336.	1.7	213
71	Circadian variation in biochemical markers of bone cell activity and insulin-like growth factor-I in two-year-old horses. <i>Journal of Animal Science</i> , 2003, 81, 2804-2810.	0.5	22
72	Horses damp the spring in their step. <i>Nature</i> , 2001, 414, 895-899.	27.8	216

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73	Impact during equine locomotion: techniques for measurement and analysis. <i>Equine Veterinary Journal</i> , 1997, 29, 9-12.	1.7	11
74	The role of biomechanics research in the understanding of equine lameness. <i>Equine Veterinary Journal</i> , 1994, 26, 435-436.	1.7	1
75	The Pathobiology and Repair of Tendon and Ligament Injury. <i>Veterinary Clinics of North America Equine Practice</i> , 1994, 10, 323-349.	0.7	147