Alan M Wilson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Locomotion dynamics of hunting in wild cheetahs. Nature, 2013, 498, 185-189.	27.8	344
2	Upwash exploitation and downwash avoidance by flap phasing in ibis formation flight. Nature, 2014, 505, 399-402.	27.8	272
3	Horses damp the spring in their step. Nature, 2001, 414, 895-899.	27.8	216
4	The effect of gait and digital flexor muscle activation on limb compliance in the forelimb of the horseEquus caballus. Journal of Experimental Biology, 2003, 206, 1325-1336.	1.7	213
5	A method for deriving displacement data during cyclical movement using an inertial sensor. Journal of Experimental Biology, 2005, 208, 2503-2514.	1.7	157
6	Group hunting within the Carnivora: physiological, cognitive and environmental influences on strategy and cooperation. Behavioral Ecology and Sociobiology, 2013, 67, 1-17.	1.4	153
7	The Pathobiology and Repair of Tendon and Ligament Injury. Veterinary Clinics of North America Equine Practice, 1994, 10, 323-349.	0.7	147
8	Solving the shepherding problem: heuristics for herding autonomous, interacting agents. Journal of the Royal Society Interface, 2014, 11, 20140719.	3.4	140
9	Biomechanics of predator–prey arms race in lion, zebra, cheetah and impala. Nature, 2018, 554, 183-188.	27.8	130
10	High speed galloping in the cheetah (<i>Acinonyx jubatus</i>) and the racing greyhound (<i>Canis) Tj ETQq0 0 2425-2434.</i>	0 rgBT /Ov 1.7	verlock 10 Tf 5 125
11	Flying in a flock comes at a cost in pigeons. Nature, 2011, 474, 494-497.	27.8	118
12	Selfish-herd behaviour of sheep under threat. Current Biology, 2012, 22, R561-R562.	3.9	114
13	Gait characterisation and classification in horses. Journal of Experimental Biology, 2007, 210, 187-197.	1.7	109
14	A catapult action for rapid limb protraction. Nature, 2003, 421, 35-36.	27.8	104
15	Matching times of leading and following suggest cooperation through direct reciprocity during V-formation flight in ibis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2115-2120.	7.1	104
16	No force limit on greyhound sprint speed. Nature, 2005, 438, 753-754.	27.8	103
17	Accuracy of WAAS-enabled CPS for the determination of position and speed over ground. Journal of Biomechanics, 2005, 38, 1717-1722.	2.1	92
18	Does wildlife resource selection accurately inform corridor conservation?. Journal of Applied Ecology, 2017, 54, 412-422.	4.0	88

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19	Functional anatomy of the cheetah (Acinonyx jubatus) hindlimb. Journal of Anatomy, 2011, 218, 363-374.	1.5	85
20	Lessons from integrating behaviour and resource selection: activityâ€specific responses of <scp>A</scp> frican wild dogs to roads. Animal Conservation, 2016, 19, 247-255.	2.9	80
21	Centre of mass movement and mechanical energy fluctuation during gallop locomotion in the Thoroughbred racehorse. Journal of Experimental Biology, 2006, 209, 3742-3757.	1.7	74
22	Modern Riding Style Improves Horse Racing Times. Science, 2009, 325, 289-289.	12.6	70
23	Functional anatomy of the cheetah (Acinonyx jubatus) forelimb. Journal of Anatomy, 2011, 218, 375-385.	1.5	67
24	Intermittent applied mechanical loading induces subchondral bone thickening that may be intensified locally by contiguous articular cartilage lesions. Osteoarthritis and Cartilage, 2015, 23, 940-948.	1.3	66
25	Measurement of stride parameters using a wearable GPS and inertial measurement unit. Journal of Biomechanics, 2008, 41, 1398-1406.	2.1	63
26	The anatomical arrangement of muscle and tendon enhances limb versatility and locomotor performance. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 1540-1553.	4.0	59
27	Energy cost and return for hunting in African wild dogs and cheetahs. Nature Communications, 2016, 7, 11034.	12.8	59
28	Pitch then power: limitations to acceleration in quadrupeds. Biology Letters, 2009, 5, 610-613.	2.3	54
29	Determining association networks in social animals: choosing spatial–temporal criteria and sampling rates. Behavioral Ecology and Sociobiology, 2011, 65, 1659-1668.	1.4	54
30	Accounting for elite indoor 200 m sprint results. Biology Letters, 2006, 2, 47-50.	2.3	53
31	Terrestrial mammalian wildlife responses to Unmanned Aerial Systems approaches. Scientific Reports, 2019, 9, 2142.	3.3	49
32	Physical activity: does long-term, high-intensity exercise in horses result in tendon degeneration?. Journal of Applied Physiology, 2008, 105, 1927-1933.	2.5	47
33	Grip and limb force limits to turning performance in competition horses. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2105-2111.	2.6	46
34	Mechanics of cutting maneuvers by ostriches (Struthio camelus). Journal of Experimental Biology, 2007, 210, 1378-1390.	1.7	41
35	Mechanics of dog walking compared with a passive, stiff-limbed, 4-bar linkage model, and their collisional implications. Journal of Experimental Biology, 2007, 210, 533-540.	1.7	38
36	A hidden Markov model-based stride segmentation technique applied to equine inertial sensor trunk movement data. Journal of Biomechanics, 2008, 41, 216-220.	2.1	38

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37	Additive opportunistic capture explains group hunting benefits in African wild dogs. Nature Communications, 2016, 7, 11033.	12.8	34
38	Ontogenetic scaling of locomotor kinetics and kinematics of the ostrich (Struthio camelus). Journal of Experimental Biology, 2010, 213, 1347-1355.	1.7	33
39	The Determination of Muscle Volume with A Freehand 3D Ultrasonography System. Ultrasound in Medicine and Biology, 2007, 33, 402-407.	1.5	32
40	The locomotor kinematics and ground reaction forces of walking giraffes. Journal of Experimental Biology, 2019, 222, .	1.7	32
41	Speed, pacing strategy and aerodynamic drafting in Thoroughbred horse racing. Biology Letters, 2012, 8, 678-681.	2.3	30
42	RemarkableÂmuscles, remarkable locomotion in desert-dwelling wildebeest. Nature, 2018, 563, 393-396.	27.8	28
43	Improving the accuracy of estimates of animal path and travel distance using GPS driftâ€corrected dead reckoning. Ecology and Evolution, 2016, 6, 6210-6222.	1.9	24
44	Circadian variation in biochemical markers of bone cell activity and insulin-like growth factor-I in two-year-old horses1. Journal of Animal Science, 2003, 81, 2804-2810.	0.5	22
45	Prediction of kinetics and kinematics of running animals using an analytical approximation to the planar spring-mass system. Journal of Experimental Biology, 2005, 208, 4377-4389.	1.7	22
46	Walk–run classification of symmetrical gaits in the horse: a multidimensional approach. Journal of the Royal Society Interface, 2009, 6, 335-342.	3.4	21
47	Dynamics of direct inter-pack encounters in endangered African wild dogs. Behavioral Ecology and Sociobiology, 2017, 71, 1.	1.4	20
48	The consistency of maximum running speed measurements in humans using a feedback-controlled treadmill, and a comparison with maximum attainable speed during overground locomotion. Journal of Biomechanics, 2009, 42, 2569-2574.	2.1	18
49	Power output of skinned skeletal muscle fibres from the cheetah (<i>Acinonyx jubatus</i>). Journal of Experimental Biology, 2013, 216, 2974-82.	1.7	18
50	Mechanical and energetic scaling relationships of running gait through ontogeny in the ostrich (Struthio camelus). Journal of Experimental Biology, 2012, 216, 841-9.	1.7	16
51	Ground reaction forces of overground galloping in ridden Thoroughbred racehorses. Journal of Experimental Biology, 2019, 222, .	1.7	16
52	Skinned fibres produce the same power and force as intact fibre bundles from muscle of wild rabbits. Journal of Experimental Biology, 2015, 218, 2856-63.	1.7	15
53	Scent-marking strategies of a solitary carnivore: boundary and road scent marking in the leopard. Animal Behaviour, 2020, 161, 115-126.	1.9	15
54	Evaluation of in vitro performance of suction drains. American Journal of Veterinary Research, 2009, 70, 283-289.	0.6	12

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55	A wearable and flexible Bracelet computer for on-body sensing. , 2011, , .		12
56	Data-loggers carried on a harness do not adversely affect sheep locomotion. Research in Veterinary Science, 2012, 93, 549-552.	1.9	12
57	An exploratory clustering approach for extracting stride parameters from tracking collars on free ranging wild animals. Journal of Experimental Biology, 2017, 220, 341-346.	1.7	12
58	Artificial mass loading disrupts stable social order in pigeon dominance hierarchies. Biology Letters, 2020, 16, 20200468.	2.3	12
59	A comparison of three-dimensional ultrasound, two-dimensional ultrasound and dissections for determination of lesion volume in tendons. Ultrasound in Medicine and Biology, 2006, 32, 797-804.	1.5	11
60	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. Journal of Experimental Biology, 2009, 212, 2454-2463.	1.7	11
61	Impact during equine locomotion: techniques for measurement and analysis. Equine Veterinary Journal, 1997, 29, 9-12.	1.7	11
62	The Biomechanics of the Equine Limb and Its Effect on Lameness. , 2011, , 270-281.		9
63	Movement patterns and athletic performance of leopards in the Okavango Delta. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172622.	2.6	9
64	External mechanical work in the galloping racehorse. Biology Letters, 2019, 15, 20180709.	2.3	8
65	Possible causes of divergent population trends in sympatric African herbivores. PLoS ONE, 2019, 14, e0213720.	2.5	7
66	Determining position, velocity and acceleration of free-ranging animals with a low-cost unmanned aerial system. Journal of Experimental Biology, 2016, 219, 2687-92.	1.7	6
67	Energy turnover in mammalian skeletal muscle in contractions mimicking locomotion: effects of stimulus pattern on work, impulse and energetic cost and efficiency. Journal of Experimental Biology, 2019, 222, .	1.7	6
68	Parsimonious test of dynamic interaction. Ecology and Evolution, 2019, 9, 1654-1664.	1.9	4
69	There and back again - a zebra's tale. Journal of Experimental Biology, 2020, 223, .	1.7	3
70	The role of biomechanics research in the understanding of equine lameness. Equine Veterinary Journal, 1994, 26, 435-436.	1.7	1
71	Towards Precise Synchronisation in Wireless Sensor Networks. , 2010, , .		1
72	Effects of artificial water provision on migratory blue wildebeest and zebra in the Makgadikgadi Pans ecosystem, Botswana. Biological Conservation, 2022, 268, 109502.	4.1	1

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73	Animal locomotion. Journal of Biomechanics, 2007, 40, S3.	2.1	Ο
74	The role of biomechanics in the study of conformation and its relationship to orthopaedic health. Equine Veterinary Journal, 2007, 39, 14-16.	1.7	0
75	R. McNeill Alexander (1934–2016). Nature, 2016, 532, 442-442.	27.8	Ο