Thilo Pfau

List of Publications by Year
in descending order

102	2,656	159585	223800
papers	citations	30 h-index	46 g-index

108	108	108	1135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A method for deriving displacement data during cyclical movement using an inertial sensor. Journal of Experimental Biology, 2005, 208, 2503-2514.	1.7	157
2	Gait characterisation and classification in horses. Journal of Experimental Biology, 2007, 210, 187-197.	1.7	109
3	Inertial sensors for assessment of back movement in horses during locomotion over ground. Equine Veterinary Journal, 2010, 42, 417-424.	1.7	81
4	Vertical head and trunk movement adaptations of sound horses trotting in a circle on a hard surface. Veterinary Journal, 2012, 193, 73-80.	1.7	75
5	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
6	Evidence of the development of â€˜domainâ€restrictedâ€™ expertise in the recognition of asymmetric motion characteristics of hindlimb lameness in the horse. Equine Veterinary Journal, 2009, 41, 112-117.	1.7	72
7	Modern Riding Style Improves Horse Racing Times. Science, 2009, 325, 289-289.	12.6	70
8	Assessment of mild hindlimb lameness during over ground locomotion using linear discriminant analysis of inertial sensor data. Equine Veterinary Journal, 2007, 39, 407-413.	1.7	66
9	Accuracy and precision of hind limb foot contact timings of horses determined using a pelvis-mounted inertial measurement unit. Journal of Biomechanics, 2012, 45, 1522-1528.	2.1	66
10	Effect of trotting speed and circle radius on movement symmetry in horses during lunging on a soft surface. American Journal of Veterinary Research, 2012, 73, 1890-1899.	0.6	61
11	The effect of conformation on orthopaedic health and performance in a cohort of National Hunt racehorses: preliminary results. Equine Veterinary Journal, 2006, 38, 622-627.	1.7	59
12	Head and pelvic movement asymmetries at trot in riding horses in training and perceived as free from lameness by the owner. PLoS ONE, 2017, 12, e0176253.	2.5	59
13	Rater agreement of visual lameness assessment in horses during lungeing. Equine Veterinary Journal, 2016, 48, 78-82.	1.7	58
14	Kinetics of jump landing in agility dogs. Veterinary Journal, 2011, 190, 278-283.	1.7	54
15	Head and pelvic movement asymmetry during lungeing in horses with symmetrical movement on the straight. Equine Veterinary Journal, 2016, 48, 315-320.	1.7	54
16	Effect of lungeing on head and pelvic movement asymmetry in horses with induced lameness. Veterinary Journal, 2013, 198, e39-e45.	1.7	52
17	Variation in conformation in a cohort of National Hunt racehorses. Equine Veterinary Journal, 2006, 38, 616-621.	1.7	50
18	Variability of Manson and Leaver locomotion scores assigned to dairy cows by different observers. Veterinary Record, 2009, 164, 388-392.	0.3	48

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19	Do we have to redefine lameness in the era of quantitative gait analysis?. Equine Veterinary Journal, 2017, 49, 567-569.	1.7	47
20	Vertical movement symmetry of the withers in horses with induced forelimb and hindlimb lameness at trot. Equine Veterinary Journal, 2018, 50, 818-824.	1.7	47
21	Accuracy and Precision of Equine Gait Event Detection during Walking with Limb and Trunk Mounted Inertial Sensors. Sensors, 2012, 12, 8145-8156.	3.8	44
22	The effect of trotting speed on the evaluation of subtle lameness in horses. Veterinary Journal, 2013, 197, 245-252.	1.7	44
23	Lungeing on hard and soft surfaces: Movement symmetry of trotting horses considered sound by their owners. Equine Veterinary Journal, 2016, 48, 83-89.	1.7	42
24	Reliability of conformational measurements in the horse using a three-dimensional motion analysis system. Equine Veterinary Journal, 2006, 38, 610-615.	1.7	40
25	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
26	Proximal hindlimb flexion in the horse: Effect on movement symmetry and implications for defining soundness. Equine Veterinary Journal, 2012, 44, 657-663.	1.7	38
27	Agreement between two inertial sensor gait analysis systems for lameness examinations in horses. Equine Veterinary Education, 2016, 28, 203-208.	0.6	37
28	Identifying optimal parameters for quantification of changes in pelvic movement symmetry as a response to diagnostic analgesia in the hindlimbs of horses. Equine Veterinary Journal, 2014, 46, 759-763.	1.7	36
29	Alterations in thoracolumbosacral movement when pain causing lameness has been improved by diagnostic analgesia. Veterinary Journal, 2017, 224, 55-63.	1.7	33
30	The Determination of Muscle Volume with A Freehand 3D Ultrasonography System. Ultrasound in Medicine and Biology, 2007, 33, 402-407.	1.5	32
31	Thoracolumbar movement in sound horses trotting in straight lines in hand and on the lunge and the relationship with hind limb symmetry or asymmetry. Veterinary Journal, 2017, 220, 95-104.	1.7	31
32	Evaluation of discriminant analysis based on dorsoventral symmetry indices to quantify hindlimb lameness during over ground locomotion in the horse. Equine Veterinary Journal, 2009, 41, 304-308.	1.7	30
33	Movement asymmetry in working polo horses. Equine Veterinary Journal, 2016, 48, 517-522.	1.7	30
34	Effect of a 4â€week elastic resistance band training regimen on back kinematics in horses trotting inâ€hand and on the lunge. Equine Veterinary Journal, 2017, 49, 829-835.	1.7	30
35	Head and pelvic movement symmetry in horses during circular motion and in rising trot. Veterinary Journal, 2013, 198, e52-e58.	1.7	29
36	Head, withers and pelvic movement asymmetry and their relative timing in trot in racing Thoroughbreds in training. Equine Veterinary Journal, 2018, 50, 117-124.	1.7	29

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37	Quantitative assessment of gait parameters in horses: Useful for aiding clinical decision making?. Equine Veterinary Education, 2016, 28, 209-215.	0.6	27
38	Influence of seating styles on head and pelvic vertical movement symmetry in horses ridden at trot. PLoS ONE, 2018, 13, e0195341.	2.5	27
39	High-speed gallop locomotion in the Thoroughbred racehorse. I. The effect of incline on stride parameters. Journal of Experimental Biology, 2008, 211, 935-944.	1.7	24
40	Repeatability of gait analysis measurements in Thoroughbreds in training. Equine Veterinary Journal, 2018, 50, 513-518.	1.7	24
41	Effect of turn direction on body lean angle in the horse in trot and canter. Veterinary Journal, 2014, 199, 258-262.	1.7	23
42	Assessment of dairy cow locomotion in a commercial farm setting: The effects of walking speed on ground reaction forces and temporal and linear stride characteristics. Research in Veterinary Science, 2010, 88, 179-187.	1.9	22
43	Foot placement of the equine forelimb: Relationship between foot conformation, foot placement and movement asymmetry. Equine Veterinary Journal, 2016, 48, 90-96.	1.7	22
44	Quantitative lameness assessment in the horse based on upper body movement symmetry: The effect of different filtering techniques on the quantification of motion symmetry. Biomedical Signal Processing and Control, 2020, 57, 101674.	5.7	22
45	Walkâ€“run classification of symmetrical gaits in the horse: a multidimensional approach. Journal of the Royal Society Interface, 2009, 6, 335-342.	3.4	21
46	Temporal gait parameters in the alpaca and the evolution of pacing and trotting locomotion in the Camelidae. Journal of Zoology, 2011, 283, 193-202.	1.7	21
47	Accelerometer activity tracking in horses and the effect of pasture management on time budget. Equine Veterinary Journal, 2019, 51, 840-845.	1.7	21
48	Comparison of kinematic symmetry index calculations and the effects of straight and circular trotting. Equine Veterinary Journal, 2010, 42, 482-487.	1.7	19
49	The kinematics and kinetics of riding a racehorse: A quantitative comparison of a training simulator and real horses. Journal of Biomechanics, 2016, 49, 3368-3374.	2.1	19
50	Comparison of a standalone consumer grade smartphone with a specialist inertial measurement unit for quantification of movement symmetry in the trotting horse. Equine Veterinary Journal, 2017, 49, 124-129.	1.7	19
51	Comparison of visual lameness scores to gait asymmetry in racing Thoroughbreds during trot inâ€hand. Equine Veterinary Education, 2020, 32, 191-198.	0.6	19
52	Relationship Between Saddle and Rider Kinematics, Horse Locomotion, and Thoracolumbar Pressures in Sound Horses. Journal of Equine Veterinary Science, 2018, 69, 43-52.	0.9	18
53	Accuracy and precision of gait events derived from motion capture in horses during walk and trot. Journal of Biomechanics, 2014, 47, 1220-1224.	2.1	17
54	Estimation of vertical tuber coxae movement in the horse from a single inertial measurement unit. Veterinary Journal, 2013, 198, 498-503.	1.7	16

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55	Functional limits of agreement applied as a novel method comparison tool for accuracy and precision of inertial measurement unit derived displacement of the distal limb in horses. Journal of Biomechanics, 2013, 46, 2320-2325.	2.1	16
56	What is lameness and what (or who) is the gold standard to detect it?. Equine Veterinary Journal, 2018, 50, 549-551.	1.7	16
57	Size-Related Changes in Foot Impact Mechanics in Hoofed Mammals. PLoS ONE, 2013, 8, e54784.	2.5	16
58	The effect of training on stride parameters in a cohort of National Hunt racing Thoroughbreds: A preliminary study. Equine Veterinary Journal, 2009, 41, 493-497.	1.7	15
59	Understanding hind limb lameness signs in horses using simple rigid body mechanics. Journal of Biomechanics, 2015, 48, 3323-3331.	2.1	15
60	Quantification of the effect of instrumentation error in objective gait assessment in the horse on hindlimb symmetry parameters. Equine Veterinary Journal, 2018, 50, 370-376.	1.7	15
61	Three-dimensional biomechanics of simulated laryngeal abduction in horses. American Journal of Veterinary Research, 2010, 71, 1003-1010.	0.6	14
62	Determination of vertebral range of motion using inertial measurement units in 27 Franchesâ€Montagnes stallions and comparison between conditions and with a mixed population. Equine Veterinary Journal, 2016, 48, 509-516.	1.7	14
63	The Effect That Induced Rider Asymmetry Has on Equine Locomotion and the Range of Motion of the Thoracolumbar Spine When Ridden in Rising Trot. Journal of Equine Veterinary Science, 2020, 88, 102946.	0.9	14
64	Alterations in body lean angle in lame horses before and after diagnostic analgesia in straight lines in hand and on the lunge. Veterinary Journal, 2018, 239, 1-6.	1.7	13
65	The Effect of Tree Width on Thoracolumbar and Limb Kinematics, Saddle Pressure Distribution, and Thoracolumbar Dimensions in Sports Horses in Trot and Canter. Animals, 2019, 9, 842.	2.3	13
66	A pilot study of the effects of acupuncture treatment on objective and subjective gait parameters in horses. Veterinary Anaesthesia and Analgesia, 2017, 44, 154-162.	0.6	12
67	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
68	Does â€˜hackingâ€™ surface type affect equine forelimb foot placement, movement symmetry or hoof impact deceleration during ridden walk and trot exercise?. Equine Veterinary Journal, 2019, 51, 108-114.	1.7	11
69	High-speed gallop locomotion in the Thoroughbred racehorse. II. The effect of incline on centre of mass movement and mechanical energy fluctuation. Journal of Experimental Biology, 2008, 211, 945-956.	1.7	10
70	Evidenceâ€based farriery â€“ does it exist?. Equine Veterinary Journal, 2018, 50, 552-553.	1.7	10
71	Kinematic discrimination of ataxia in horses is facilitated by blindfolding. Equine Veterinary Journal, 2018, 50, 166-171.	1.7	8
72	Effect of meloxicam treatment on movement asymmetry in riding horses in training. PLoS ONE, 2019, 14, e0221117.	2.5	8

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73	Sensor-based equine gait analysis: more than meets the eye?. UK-Vet Equine, 2019, 3, 102-112.	0.1	8
74	Is a standalone inertial measurement unit accurate and precise enough for quantification of movement symmetry in the horse?. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 527-532.	1.6	7
75	How low can we go? Influence of sample rate on equine pelvic displacement calculated from inertial sensor data. Equine Veterinary Journal, 2021, 53, 1075-1081.	1.7	7
76	Differential rotational movement and symmetry values of the thoracolumbosacral region in high-level dressage horses when trotting. PLoS ONE, 2021, 16, e0251144.	2.5	7
77	Smartphone-Based Pelvic Movement Asymmetry Measures for Clinical Decision Making in Equine Lameness Assessment. Animals, 2021, 11, 1665.	2.3	7
78	The effect of curve running on distal limb kinematics in the Thoroughbred racehorse. PLoS ONE, 2020, 15, e0244105.	2.5	7
79	Effect of a unilateral hind limb orthotic lift on upper body movement symmetry in the trotting horse. PLoS ONE, 2018, 13, e0199447.	2.5	6
80	Jockey Perception of Shoe and Surface Effects on Hoof-Ground Interactions and Implications for Safety in the Galloping Thoroughbred Racehorse. Journal of Equine Veterinary Science, 2021, 97, 103327.	0.9	6
81	Differential Rotational Movement of the Thoracolumbosacral Spine in High-Level Dressage Horses Ridden in a Straight Line, in Sitting Trot and Seated Canter Compared to In-Hand Trot. Animals, 2021, 11, 888.	2.3	6
82	Variation in frontal plane joint angles in horses. Equine Veterinary Journal, 2010, 42, 444-450.	1.7	5
83	How realistic is a racehorse simulator?. Journal of Biomechanics, 2016, 49, 3570-3575.	2.1	5
84	Effect of Speed and Surface Type on Individual Rein and Combined Leftâ€“Right Circle Movement Asymmetry in Horses on the Lunge. Frontiers in Veterinary Science, 2021, 8, 692031.	2.2	5
85	Design and Validation of a Computer-Aided Learning Program to Enhance Students' Ability to Recognize Lameness in the Horse. Journal of Veterinary Medical Education, 2014, 41, 1-8.	0.6	4
86	Changes in movement symmetry over the stages of the shoeing process in military working horses. Veterinary Record, 2016, 179, 195-195.	0.3	4
87	The Effect of Tungsten Road Nails on Upper Body Movement Asymmetry in Horses Trotting on Tarmac. Journal of Equine Veterinary Science, 2020, 90, 103000.	0.9	4
88	Influence of Speed, Ground Surface and Shoeing Condition on Hoof Breakover Duration in Galloping Thoroughbred Racehorses. Animals, 2021, 11, 2588.	2.3	4
89	The effect of horseshoes and surfaces on horse and jockey centre of mass displacements at gallop. PLoS ONE, 2021, 16, e0257820.	2.5	4
90	Linear Discriminant Analysis for Investigating Differences in Upper Body Movement Symmetry in Horses before/after Diagnostic Analgesia in Relation to Expert Judgement. Animals, 2022, 12, 762.	2.3	4

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91	Ex vivo modeling of the airflow dynamics and two-and three-dimensional biomechanical effects of suture placements for prosthetic laryngoplasty in horses. American Journal of Veterinary Research, 2020, 81, 665-672.	0.6	3
92	Upper Body Movement Symmetry in Reining Quarter Horses during Trot In-Hand, on the Lunge and during Ridden Exercise. Animals, 2022, 12, 596.	2.3	3
93	Is There a Relationship between Tail Carriage and Lameness in Horses?. Equine Veterinary Journal, 2014, 46, 55-55.	1.7	2
94	Effect of a Half Pad on Pressure Distribution in Sitting Trot and Canter Beneath a Saddle Fitted to Industry Guidelines. Journal of Equine Veterinary Science, 2021, 96, 103307.	0.9	2
95	Forces applied with a hoof tester to cadaver feet vary widely between users. Veterinary Record, 2013, 172, 182-182.	0.3	1
96	To limp, or not to limp, is that the question?. Veterinary Journal, 2013, 195, 269-270.	1.7	1
97	Optimal Gait Parameters for Quantifying the Effect of Diagnostic Analgesia in Horses. Equine Veterinary Journal, 2014, 46, 46-46.	1.7	1
98	A Systematic Approach to Comparing Thermal Activity of the Thoracic Region and Saddle Pressure Distribution beneath the Saddle in a Group of Non-Lame Sports Horses. Animals, 2021, 11, 1105.	2.3	1
99	The effect of strip grazing on physical activity and behaviour in ponies. Journal of Equine Veterinary Science, 2021, 110, 103745.	0.9	1
100	How reliable is the use of hoof testers? The intra- and inter-operator repeatability of force application to different regions of the foot. Journal of Equine Veterinary Science, 2013, 33, 884.	0.9	0
101	Technological advances to aid clinical decision making. Equine Health, 2014, 2014, 34-37.	0.1	0
102	Sensor based gait analysis: expensive gadget or useful diagnostic tool?. Equine Health, 2014, 2014, 26-29.	0.1	0