Willem Back

List of Publications by Year
in descending order

100	2,298	172457	289244
papers	citations	29 h-index	40 g-index

102	102	102	1255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of girth, saddle and weight on movements of the horse. Equine Veterinary Journal, 2010, 36, 758-763.	1.7	95
2	How the horse moves: 1. Significance of graphical representations of equine forelimb kinematics. Equine Veterinary Journal, 1995, 27, 31-38.	1.7	76
3	Dynamic pressure measurements for the detailed study of hoof balance: the effect of trimming. Equine Veterinary Journal, 2010, 36, 778-782.	1.7	72
4	How the horse moves: 2. Significance of graphical representations of equine hind limb kinematics. Equine Veterinary Journal, 1995, 27, 39-45.	1.7	63
5	Uneven feet in a foal may develop as a consequence of lateral grazing behaviour induced by conformational traits. Equine Veterinary Journal, 2006, 38, 646-651.	1.7	60
6	The effect of induced hindlimb lameness on thoracolumbar kinematics during treadmill locomotion. Equine Veterinary Journal, 2008, 40, 147-152.	1.7	59
7	EquiMoves: A Wireless Networked Inertial Measurement System for Objective Examination of Horse Gait. Sensors, 2018, 18, 850.	3.8	59
8	Kinematic differences between the distal portions of the forelimbs and hind limbs of horses at the trot. American Journal of Veterinary Research, 1995, 56, 1522-8.	0.6	55
9	The role of electromyography in clinical diagnosis of neuromuscular locomotor problems in the horse. Equine Veterinary Journal, 2010, 36, 718-722.	1.7	53
10	Kinematic Gait Analysis in Equine Carpal Lameness. Cells Tissues Organs, 1993, 146, 86-89.	2.3	51
11	Saddle pressure measuring: Validity, reliability and power to discriminate between different saddle-fits. Veterinary Journal, 2006, 172, 265-273.	1.7	51
12	Heritability of foot conformation and its relationship to sports performance in a Dutch Warmblood horse population. Equine Veterinary Journal, 2009, 41, 139-143.	1.7	51
13	Hoof growth between two shoeing sessions leads to a substantial increase of the moment about the distal, but not the proximal, interphalangeal joint. Equine Veterinary Journal, 2010, 38, 170-174.	1.7	51
14	Kinematic detection of superior gait quality in young trotting warmbloods. Veterinary Quarterly, 1994, 16, 91-96.	6.7	49
15	Effect of different head and neck positions on behaviour, heart rate variability and cortisol levels in lunged Royal Dutch Sport horses. Veterinary Journal, 2014, 202, 26-32.	1.7	46
16	Are kinematics of the walk related to the locomotion of a warmblood horse at the trot?. Veterinary Quarterly, 1996, 18, 79-84.	6.7	45
17	Changes in location of centre of pressure and hoof-unrollment pattern in relation to an 8-week shoeing interval in the horse. Equine Veterinary Journal, 2010, 37, 536-540.	1.7	39
18	Current insights into the molecular genetic basis of dwarfism in livestock. Veterinary Journal, 2017, 224, 64-75.	1.7	38

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19	Shoeing sound Warmblood horses with a rolled toe optimises hoof-unrollment and lowers peak loading during breakover. Equine Veterinary Journal, 2010, 38, 258-262.	1.7	37
20	Effect of early training on the jumping technique of horses. American Journal of Veterinary Research, 2005, 66, 418-424.	0.6	34
21	Monitoring equine visceral pain with a composite pain scale score and correlation with survival after emergency gastrointestinal surgery. Veterinary Journal, 2014, 200, 109-115.	1.7	34
22	Predictive value of foal kinematics for the locomotor performance of adult horses. Research in Veterinary Science, 1995, 59, 64-69.	1.9	33
23	Lateralised motor behaviour leads to increased unevenness in front feet and asymmetry in athletic performance in young mature Warmblood horses. Equine Veterinary Journal, 2010, 42, 444-450.	1.7	33
24	Quantification of the Locomotion of Dutch Warmblood Foals. Cells Tissues Organs, 1993, 146, 141-147.	2.3	32
25	Genomeâ€wide SNP associationâ€“based localization of a dwarfism gene in Friesian dwarf horses. Animal Genetics, 2010, 41, 2-7.	1.7	31
26	Dwarfism with joint laxity in Friesian horses is associated with a splice site mutation in B4GALT7. BMC Genomics, 2016, 17, 839.	2.8	31
27	A Pressure Algometer Is a Useful Tool to Objectively Monitor the Effect of Diagnostic Palpation by a Physiotherapist in Warmblood Horses. Journal of Equine Veterinary Science, 2010, 30, 310-321.	0.9	30
28	The Friesian horse breed: A clinical challenge to the equine veterinarian?. Equine Veterinary Education, 2012, 24, 66-71.	0.6	30
29	Back kinematics of healthy trotting horses during treadmill versus over ground locomotion. Equine Veterinary Journal, 2009, 41, 297-300.	1.7	29
30	A nonsense mutation in B3GALNT2 is concordant with hydrocephalus in Friesian horses. BMC Genomics, 2015, 16, 761.	2.8	29
31	Functional Locomotor Consequences of Uneven Forefeet for Trot Symmetry in Individual Riding Horses. PLoS ONE, 2015, 10, e0114836.	2.5	29
32	Validation of distal limb mounted inertial measurement unit sensors for stride detection in Warmblood horses at walk and trot. Equine Veterinary Journal, 2017, 49, 545-551.	1.7	29
33	Intervertebral Disc Degeneration in Warmblood Horses: Morphology, Grading, and Distribution of Lesions. Veterinary Pathology, 2018, 55, 442-452.	1.7	29
34	Effect of head and neck position on outcome of quantitative neuromuscular diagnostic techniques in Warmblood riding horses directly following moderate exercise. Equine Veterinary Journal, 2010, 42, 261-267.	1.7	27
35	EX VIVO COMPUTED TOMOGRAPHIC EVALUATION OF MORPHOLOGY VARIATIONS IN EQUINE CERVICAL VERTEBRAE. Veterinary Radiology and Ultrasound, 2016, 57, 482-488.	0.9	27
36	Developmental aspects of distal limb conformation in the horse: the potential consequences of uneven feet in foals. Equine Veterinary Journal, 2006, 38, 652-656.	1.7	26

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37	The equine cervical spine: comparing MRI and contrast-enhanced CT images with anatomic slices in the sagittal, dorsal, and transverse plane. Veterinary Quarterly, 2014, 34, 74-84.	6.7	26
38	Musculoskeletal Disease in Aged Horses and Its Management. Veterinary Clinics of North America Equine Practice, 2016, 32, 229-247.	0.7	26
39	The effect of ex vivo flexion and extension on intervertebral foramina dimensions in the equine cervical spine. Equine Veterinary Journal, 2010, 42, 425-430.	1.7	25
40	Biomechanical responses of the back of riding horses to water treadmill exercise. Veterinary Journal, 2013, 198, e120-e123.	1.7	25
41	Variation in free jumping technique within and among horses with little experience in show jumping. American Journal of Veterinary Research, 2004, 65, 938-944.	0.6	24
42	The use of force plate measurements to titrate the dosage of a new COXâ€2 inhibitor in lame horses. Equine Veterinary Journal, 2009, 41, 309-312.	1.7	24
43	A pilot study on objective quantification and anatomical modelling ofin vivohead and neck positions commonly applied in training and competition of sport horses. Equine Veterinary Journal, 2010, 42, 436-443.	1.7	24
44	Phenotypic diagnosis of dwarfism in six Friesian horses. Equine Veterinary Journal, 2008, 40, 282-287.	1.7	23
45	Comparison of the head and neck position of elite dressage horses during top-level competitions in 1992 versus 2008. Veterinary Journal, 2014, 202, 462-465.	1.7	22
46	Pressure plate analysis of toeâ€“heel and medio-lateral hoof balance at the walk and trot in sound sport horses. Veterinary Journal, 2013, 198, e9-e13.	1.7	21
47	Esophageal Dysfunction in Friesian Horses. Veterinary Pathology, 2015, 52, 1142-1147.	1.7	21
48	Effect of lateral heel wedges on sagittal and transverse plane kinematics of trotting Shetland ponies and the influence of feeding and training regimes. Equine Veterinary Journal, 2010, 35, 606-612.	1.7	20
49	Accuracy of hoof angle measurement devices in comparison with digitally analysed radiographs. Equine Veterinary Education, 2005, 17, 319-322.	0.6	20
50	Kinematic comparison of the leading and trailing foreâ€•and hindlimbs at the canter. Equine Veterinary Journal, 1997, 29, 80-83.	1.7	19
51	Phenotypic Characteristics of Hydrocephalus in Stillborn Friesian Foals. Veterinary Pathology, 2013, 50, 1037-1042.	1.7	19
52	The effects of threeâ€•month oral supplementation with a nutraceutical and exercise on the locomotor pattern of aged horses. Equine Veterinary Journal, 2014, 46, 611-617.	1.7	19
53	Improving gait classification in horses by using inertial measurement unit (IMU) generated data and machine learning. Scientific Reports, 2020, 10, 17785.	3.3	19
54	Compensation for changes in hoof conformation between shoeing sessions through the adaptation of angular kinematics of the distal segments of the limbs of horses. American Journal of Veterinary Research, 2006, 67, 1199-1203.	0.6	18

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55	Synthetic shoes attenuate hoof impact in the trotting warmblood horse. Equine and Comparative Exercise Physiology, 2006, 3, 143-151.	0.4	18
56	Clinical effects of buprenorphine on open field behaviour and gait symmetry in healthy and lame weaned piglets. Veterinary Journal, 2015, 206, 298-303.	1.7	18
57	The Genomic Makeup of Nine Horse Populations Sampled in the Netherlands. Genes, 2019, 10, 480.	2.4	18
58	A horseâ€™s locomotor signature: COP path determined by the individual limb. PLoS ONE, 2017, 12, e0167477.	2.5	18
59	Equine cervical intervertebral disc degeneration is associated with location and MRI features. Veterinary Radiology and Ultrasound, 2019, 60, 696-706.	0.9	17
60	Caudal cervical vertebral morphological variation is not associated with clinical signs in Warmblood horses. Equine Veterinary Journal, 2020, 52, 219-224.	1.7	17
61	Effect of head and neck position on intrathoracic pressure and arterial blood gas values in Dutch Warmblood riding horses during moderate exercise. American Journal of Veterinary Research, 2012, 73, 522-528.	0.6	16
62	Effect of differences in tendon properties on functionality of the passive stay apparatus in horses. American Journal of Veterinary Research, 2011, 72, 474-483.	0.6	14
63	Cross-sectional study of the prevalence of and risk factors for hoof disorders in horses in The Netherlands. Preventive Veterinary Medicine, 2017, 140, 53-59.	1.9	12
64	The effect of Clostridium botulinum toxin type A injections on motor unit activity of the deep digital flexor muscle in healthy sound Royal Dutch sport horses. Veterinary Journal, 2013, 198, e147-e151.	1.7	11
65	Effect of Clostridium botulinum toxin type A injections into the deep digital flexor muscle on the range of motion of the metacarpus and carpus, and the force distribution underneath the hooves, of sound horses at the walk. Veterinary Journal, 2013, 198, e152-e156.	1.7	11
66	Cervical articular process joint osteochondrosis in Warmblood foals. Equine Veterinary Journal, 2020, 52, 664-669.	1.7	11
67	Clinicopathological findings in horses with a bi- or tripartite navicular bone. BMC Veterinary Research, 2016, 12, 74.	1.9	10
68	Mouldable, thermoplastic, glueâ€on frogâ€supportive shoes change hoof kinetics in normal and obese Shetland ponies. Equine Veterinary Journal, 2018, 50, 684-689.	1.7	10
69	Axial osteitis of the proximal sesamoid bones and desmitis of the intersesamoidean ligament in the hindlimb of Friesian horses: review of 12 cases (2002-2012) and post-mortem analysis of the bone-ligament interface. BMC Veterinary Research, 2014, 10, 272.	1.9	9
70	The development of locomotor kinetics in the foal and the effect of osteochondrosis. Equine Veterinary Journal, 2017, 49, 467-474.	1.7	9
71	Sagittal plane fore hoof unevenness is associated with fore and hindlimb asymmetrical force vectors in the sagittal and frontal planes. PLoS ONE, 2018, 13, e0203134.	2.5	9
72	Equine digital tendons show breedâ€specific differences in their mechanical properties that may relate to athletic ability and predisposition to injury. Equine Veterinary Journal, 2020, 52, 320-325.	1.7	9

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73	The influence of different exercise regimens on the development of locomotion in the foal. Equine Veterinary Journal, 1999, 31, 106-111.	1.7	8
74	Longitudinal development of kinematics in Shetland ponies and the influence of feeding and training regimes. Equine Veterinary Journal, 2010, 34, 609-614.	1.7	7
75	Arthroscopic Removal of Large Extensor Process Fragments in 18 Friesian Horses: Longâ€Term Clinical Outcome and Radiological Followâ€Up of the Distal Interphalangeal Joint. Veterinary Surgery, 2016, 45, 536-541.	1.0	7
76	Incarcerated umbilical hernia with enterocutaneous fistulae in two foals. Equine Veterinary Education, 1997, 9, 3-6.	0.6	6
77	A comparison between the trot of pony and horse foals to characterise equine locomotion at young age. Equine Veterinary Journal, 1999, 31, 240-244.	1.7	6
78	Toe modifications in hind feet shoes optimise hoofâ€unrollment in sound <scp>W</scp>armblood horses at trot. Equine Veterinary Journal, 2013, 45, 485-489.	1.7	6
79	Technological advances in equestrian sports: Are they beneficial for both performance and welfare?. Veterinary Journal, 2014, 199, 313-314.	1.7	6
80	A longitudinal study on the performance of in vivo methods to determine the osteochondrotic status of young pigs. BMC Veterinary Research, 2016, 12, 62.	1.9	6
81	The use of a rein tension device to compare different training methods for neck flexion in baseâ€level trained Warmblood horses at the walk. Equine Veterinary Journal, 2018, 50, 825-830.	1.7	6
82	Ruling out <scp>BGN</scp> variants as simple Xâ€linked causative mutations for bilateral corneal stromal loss in Friesian horses. Animal Genetics, 2018, 49, 656-657.	1.7	6
83	Whole genome sequencing identified a 16 kilobase deletion on ECA13 associated with distichiasis in Friesian horses. BMC Genomics, 2020, 21, 848.	2.8	6
84	Normal function of the hypothalamicâ€pituitary growth axis in three dwarf Friesian foals. Veterinary Record, 2009, 165, 373-376.	0.3	5
85	Cervical disc width index is a reliable parameter and consistent in young growing Dutch Warmblood horses. Veterinary Radiology and Ultrasound, 2021, 62, 11-19.	0.9	4
86	The <scp>E</scp>quine Cervical Spine: Comparing <scp>MRI</scp> and Contrastâ€Enhanced <scp>CT</scp> Images with Anatomic Slices in the Sagittal, Dorsal and Transverse Plane. Equine Veterinary Journal, 2014, 46, 48-48.	1.7	3
87	Quantitative and qualitative aspects of standing-up behavior and the prevalence of osteochondrosis in Warmblood foals on different farms: could there be a link?. BMC Veterinary Research, 2017, 13, 324.	1.9	3
88	The development of hoof balance and landing preference in the postâ€natal period. Equine Veterinary Journal, 2018, 50, 809-817.	1.7	3
89	Does long-term unilateral circling affect locomotor symmetry in ponies used for carousel rides?. Veterinary Journal, 2013, 198, e143-e146.	1.7	2
90	The use of electromyography interference pattern analysis to determine muscle force of the deep digital flexor muscle in healthy and laminitic horses. Veterinary Quarterly, 2016, 36, 10-15.	6.7	2

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91	Intervertebral disc degeneration in warmblood horses: Histological and biochemical characterization. Veterinary Pathology, 2022, 59, 284-298.	1.7	2
92	Are kinematics of the walk related to the locomotion of a warmblood horse at the trot?. Veterinary Quarterly, 1996, 18 Suppl 2, S79-84.	6.7	2
93	Back in the driverâ€™s seat and the need for an objective evaluation of saddle fit. Veterinary Journal, 2013, 195, 12-13.	1.7	1
94	Osteochondral dysplasia of the coxofemoral joints in a <scp>F</scp>riesian foal: Clinical findings and methods of diagnosis. Equine Veterinary Education, 2016, 28, 486-491.	0.6	1
95	Saddles and seats in animal and human sports: Where is your smart, wearable, real-time feedback?. Veterinary Journal, 2016, 207, 4-5.	1.7	1
96	Biochemical differences between distal limb extensor and flexor tendons among equine breeds selected for racing and sport. Veterinary Journal, 2020, 262, 105515.	1.7	1
97	Determination of equine deep digital flexor muscle volume based on distances between anatomical landmarks. Research in Veterinary Science, 2014, 97, 397-399.	1.9	0
98	The Use of Electromyography Including Interference Pattern Analysis to Determine Muscle Force of the Deep Digital Flexor Muscle in Case of Equine Laminitis. Equine Veterinary Journal, 2015, 47, 16-16.	1.7	0
99	Hindquarter Movement of Sporthorse Stallions During Semen Collection. Journal of Equine Veterinary Science, 2017, 55, 100-104.	0.9	0
100	Biomechanical loading of the porcine femorotibial joint during maximal movements: An exploratory, ex vivo study. Veterinary Journal, 2020, 261, 105480.	1.7	0