Hilary Clayton

List of Publications by Year
in descending order

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144 papers	3,138 citations	136740 32 h-index	243296 44 g-index
149 all docs	149 docs citations	149 times ranked	1065 citing authors

#	Article	IF	Citations
1	Dynamic mobilisation exercises increase cross sectional area of musculus multifidus. Equine Veterinary Journal, 2011, 43, 522-529.	0.9	104
2	Comparison of the stride kinematics of the collected, working, medium and extended trot in horses. Equine Veterinary Journal, 1994, 26, 230-234.	0.9	101
3	Net joint moments and powers in the equine forelimb during the stance phase of the trot. Equine Veterinary Journal, 1998, 30, 384-389.	0.9	74
4	Kinematics and ground reaction forces in horses with superficial digital flexor tendinitis. American Journal of Veterinary Research, 2000, 61, 191-196.	0.3	71
5	Joint work and power for both the forelimb and hindlimb during trotting in the horse. Journal of Experimental Biology, 2006, 209, 3990-3999.	0.8	71
6	Osseous spinal pathology and epaxial muscle ultrasonography in Thoroughbred racehorses. Equine Veterinary Journal, 2010, 42, 654-661.	0.9	69
7	The forelimb in walking horses: 1. Kinematics and ground reaction forces. Equine Veterinary Journal, 2000, 32, 287-294.	0.9	68
8	The role of biomechanical analysis of horse and rider in equitation science. Applied Animal Behaviour Science, 2017, 190, 123-132.	0.8	63
9	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.	0.3	61
10	Posture, Flexibility and Grip Strength in Horse Riders. Journal of Human Kinetics, 2014, 42, 113-125.	0.7	58
11	Usability of normal force distribution measurements to evaluate asymmetrical loading of the back of the horse and different rider positions on a standing horse. Veterinary Journal, 2009, 181, 266-273.	0.6	53
12	Dynamic mobilisations in cervical flexion: Effects on intervertebral angulations. Equine Veterinary Journal, 2010, 42, 688-694.	0.9	51
13	Terminology for the description of equine jumping kinematics. Journal of Equine Veterinary Science, 1989, 9, 341-348.	0.4	49
14	The hindlimb in walking horses: 1. Kinematics and ground reaction forces. Equine Veterinary Journal, 2001, 33, 38-43.	0.9	48
15	Effects on behaviour and rein tension on horses ridden with or without martingales and rein inserts. Veterinary Journal, 2009, 181, 56-62.	0.6	48
16	Comparison of the stride kinematics of the collected, medium, and extended walks in horses. American Journal of Veterinary Research, 1995, 56, 849-52.	0.3	46
17	Kinematics of the cervical spine of the adult horse. Equine Veterinary Journal, 1989, 21, 189-192.	0.9	44
18	MEASUREMENT OF REIN TENSION DURING HORSEBACK RIDING USING STRAIN GAGE TRANSDUCERS. Experimental Techniques, 2003, 27, 34-36.	0.9	43

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19	Length and elasticity of side reins affect rein tension at trot. Veterinary Journal, 2011, 188, 291-294.	0.6	43
20	Lesions associated with the use of bits, nosebands, spurs and whips in Danish competition horses. Equine Veterinary Journal, 2019, 51, 154-162.	0.9	43
21	Gymnastic Training and Dynamic Mobilization Exercises Improve Stride Quality and Increase Epaxial Muscle Size in Therapy Horses. Journal of Equine Veterinary Science, 2015, 35, 888-893.	0.4	41
22	Temporal variables of four-beat, stepping gaits of gaited horses. Applied Animal Behaviour Science, 2003, 80, 133-142.	0.8	40
23	Vertical forces on the horse's back in sitting and rising trot. Journal of Biomechanics, 2010, 43, 627-631.	0.9	40
24	Moments and power generated by the horse (Equus caballus) hind limb during jumping. Journal of Experimental Biology, 2004, 207, 667-674.	0.8	39
25	Stabilization of wrist position during horseback riding at trot. Equine and Comparative Exercise Physiology, 2006, 3, 179-184.	0.4	39
26	Evaluation of intersegmental vertebral motion during performance of dynamic mobilization exercises in cervical lateral bending in horses. American Journal of Veterinary Research, 2012, 73, 1153-1159.	0.3	39
27	Fluoroscopic study of oral behaviours in response to the presence of a bit and the effects of rein tension. Comparative Exercise Physiology, 2009, 6, 143-148.	0.3	38
28	Locomotor mechanics of the tÃ¶lt in Icelandic horses. American Journal of Veterinary Research, 2006, 67, 1505-1510.	0.3	37
29	The effects of a rider's mass on ground reaction forces and fetlock kinematics at the trot. Equine Veterinary Journal, 1999, 31, 218-221.	0.9	37
30	The effect of fence height and width on the limb placements of show jumping horses. Journal of Equine Veterinary Science, 1989, 9, 179-185.	0.4	35
31	Head and body centre of mass movement in horses trotting on a circular path. Equine Veterinary Journal, 2006, 38, 462-467.	0.9	35
32	Energetic and kinematic consequences of weighting the distal limb. Equine Veterinary Journal, 2010, 36, 772-777.	0.9	34
33	Ground reaction forces and limb function in tÃ¶lting Icelandic horses. Equine Veterinary Journal, 2010, 36, 743-747.	0.9	34
34	Sagittal plane ground reaction forces, centre of pressure and centre of mass in trotting horses. Veterinary Journal, 2013, 198, e14-e19.	0.6	34
35	The forelimb in walking horses: 2. Net joint moments and joint powers. Equine Veterinary Journal, 2000, 32, 295-300.	0.9	30
36	3D kinematics of the equine metacarpophalangeal joint at walk and trot. Veterinary and Comparative Orthopaedics and Traumatology, 2007, 02, 86-91.	0.2	30

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37	Comparison of pressure distribution under a conventional saddle and a treeless saddle at sitting trot. Veterinary Journal, 2012, 193, 87-91.	0.6	30
38	Core Training and Rehabilitation in Horses. Veterinary Clinics of North America Equine Practice, 2016, 32, 49-71.	0.3	30
39	Effect of walking velocity on ground reaction force variables in the hind limb of clinically normal horses. American Journal of Veterinary Research, 2001, 62, 901-906.	0.3	29
40	Strain gauge measurement of rein tension during riding: a pilot study. Equine and Comparative Exercise Physiology, 2005, 2, 203-205.	0.4	29
41	The effect of an acute hoof wall angulation on the stride kinematics of trotting horses. Equine Veterinary Journal, 1990, 22, 86-90.	0.9	29
42	The hindlimb in walking horses: 2. Net joint moments and joint powers. Equine Veterinary Journal, 2001, 33, 44-48.	0.9	28
43	Assessment of the reliability of a technique to measure postural sway in horses. American Journal of Veterinary Research, 2003, 64, 1354-1359.	0.3	28
44	Hindlimb response to tactile stimulation of the pastern and coronet. Equine Veterinary Journal, 2010, 42, 227-233.	0.9	28
45	Radiographic study of bit position within the horse's oral cavity. Equine and Comparative Exercise Physiology, 2005, 2, 195-201.	0.4	27
46	Forces and pressures beneath the saddle during mounting from the ground and from a raised mounting platform. Veterinary Journal, 2008, 175, 332-337.	0.6	27
47	Effect of induced unilateral synovitis of distal intertarsal and tarsometatarsal joints on sagittal plane kinematics and kinetics of trotting horses. American Journal of Veterinary Research, 2003, 64, 1491-1495.	0.3	26
48	Effects of shoeing on forelimb swing phase kinetics of trotting horses. Veterinary and Comparative Orthopaedics and Traumatology, 2003, 16, 16-20.	0.2	25
49	Three-dimensional carpal kinematics of trotting horses. Equine Veterinary Journal, 2010, 36, 671-676.	0.9	24
50	Postural changes and their effects in elite riders when actively influencing the horse versus sitting passively at trot. Comparative Exercise Physiology, 2016, 12, 27-33.	0.3	21
51	Characterization of bony changes localized to the cervical articular processes in a mixed population of horses. PLoS ONE, 2019, 14, e0222989.	1.1	21
52	Center-of-Pressure Movements During Equine-Assisted Activities. American Journal of Occupational Therapy, 2011, 65, 211-216.	0.1	21
53	A scoping review of determinants of performance in dressage. PeerJ, 2020, 8, e9022.	0.9	21
54	Equestrian and biomechanical perspectives on laterality in the horse. Comparative Exercise Physiology, 2020, 16, 35-45.	0.3	20

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55	Topographical Anatomy of the Equine M. Cutaneus Trunci in Relation to the Position of the Saddle and Girth. Journal of Equine Veterinary Science, 2012, 32, 519-524.	0.4	19
56	Effect of blindfolding on centre of pressure variables in healthy horses during quiet standing. Veterinary Journal, 2014, 199, 365-369.	0.6	19
57	Swing phase kinematics of horses trotting over poles. Equine Veterinary Journal, 2015, 47, 107-112.	0.9	19
58	Biomechanical findings in horses showing asymmetrical vertical excursions of the withers at walk. PLoS ONE, 2018, 13, e0204548.	1.1	19
59	Ground Reaction Forces: The Sine Qua Non of Legged Locomotion. Journal of Equine Veterinary Science, 2019, 76, 25-35.	0.4	19
60	Electromyography in the horse in veterinary medicine and in veterinary research a review. Veterinary Quarterly, 1999, 21, 3-7.	3.0	18
61	Relationship between morphological and stabilographic variables in standing horses. Veterinary Journal, 2013, 198, e65-e69.	0.6	18
62	The effect of centre of mass location on sagittal plane moments around the centre of mass in trotting horses. Journal of Biomechanics, 2014, 47, 1278-1286.	0.9	18
63	An exploration of the influence of diagonal dissociation and moderate changes in speed on locomotor parameters in trotting horses. PeerJ, 2016, 4, e2190.	0.9	18
64	Evaluation of biomechanical effects of four stimulation devices placed on the hind feet of trotting horses. American Journal of Veterinary Research, 2011, 72, 1489-1495.	0.3	17
65	Equine back pain reviewed from a motor control perspective. Comparative Exercise Physiology, 2012, 8, 145-152.	0.3	17
66	Maximum and minimum peaks in rein tension within canter strides. Journal of Veterinary Behavior: Clinical Applications and Research, 2016, 13, 63-71.	0.5	17
67	Effect of detomidine on postural sway in horses. Equine and Comparative Exercise Physiology, 2004, 1, 45-50.	0.4	16
68	Comparison of the collected, working, medium and extended canters. Equine Veterinary Journal, 1994, 26, 16-19.	0.9	16
69	Classification of collected trot, passage and piaffe based on temporal variables. Equine Veterinary Journal, 1997, 29, 54-57.	0.9	16
70	Hindlimb net joint energies during swing phase as a function of trotting velocity. Equine Veterinary Journal, 2002, 34, 363-367.	0.9	16
71	Development of postural balance in foals. Veterinary Journal, 2013, 198, e70-e74.	0.6	16
72	HORSE SPECIES SYMPOSIUM: Biomechanics of the exercising horse1. Journal of Animal Science, 2016, 94, 4076-4086.	0.2	16

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73	Enthesophytosis and Impingement of the Dorsal Spinous Processes in the Equine Thoracolumbar Spine. Journal of Equine Veterinary Science, 2016, 47, 9-15.	0.4	16
74	A Review of Biomechanical Gait Classification with Reference to Collected Trot, Passage and Piaffe in Dressage Horses. Animals, 2019, 9, 763.	1.0	16
75	Swing phase kinematic and kinetic response to weighting the hind pasterns. Equine Veterinary Journal, 2011, 43, 210-215.	0.9	15
76	Forelimb kinematics and net joint moments during the swing phase of the trot. Equine Veterinary Journal, 1999, 31, 235-239.	0.9	14
77	An exploration of strategies used by dressage horses to control moments around the center of mass when performing passage. PeerJ, 2017, 5, e3866.	0.9	14
78	Cervical spinal kinematics: a comparison between foals and adult horses. Equine Veterinary Journal, 1989, 21, 193-195.	0.9	13
79	Kinematic analysis of successful and unsuccessful attempts to clear a water jump. Equine Veterinary Journal, 1995, 27, 166-169.	0.9	13
80	Joint moments and power in equine gait: a preliminary study. Equine Veterinary Journal, 1997, 29, 33-36.	0.9	13
81	Inertial properties of equine limb segments. Journal of Anatomy, 2011, 218, 500-509.	0.9	13
82	Muscle Function and Kinematics during Submaximal Equine Jumping: What Can Objective Outcomes Tell Us about Athletic Performance Indicators?. Animals, 2021, 11, 414.	1.0	13
83	Pressure on the horseâ€™s withers with three styles of blanket. Veterinary Journal, 2010, 184, 52-55.	0.6	12
84	Effects of barefoot trimming on hoof morphology. Australian Veterinary Journal, 2011, 89, 305-311.	0.5	12
85	Is a single force plate adequate for stabilographic analysis in horses?. Equine Veterinary Journal, 2012, 44, 550-553.	0.9	12
86	Forces and pressures on the horseâ€™s back during bareback riding. Veterinary Journal, 2013, 195, 48-52.	0.6	12
87	Force and pressure distribution beneath a conventional dressage saddle and a treeless dressage saddle with panels. Veterinary Journal, 2014, 199, 44-48.	0.6	12
88	The force plate: established technology, new applications. Veterinary Journal, 2005, 169, 15-16.	0.6	11
89	Horses, saddles and riders: Applying the science. Equine Veterinary Education, 2015, 27, 447-452.	0.3	11
90	Stance phase kinematics and kinetics of horses trotting over poles. Equine Veterinary Journal, 2015, 47, 113-118.	0.9	11

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91	Osseous Pathology of the Synovial Intervertebral Articulations in the Equine Thoracolumbar Spine. Journal of Equine Veterinary Science, 2016, 44, 67-73.	0.4	11
92	A simple method of equine limb force vector analysis and its potential applications. PeerJ, 2018, 6, e4399.	0.9	11
93	Effects of different bits and bridles on frequency of induced swallowing in cantering horses. Equine and Comparative Exercise Physiology, 2005, 2, 241-244.	0.4	10
94	Rein tension in novice riders when riding a horse simulator. Comparative Exercise Physiology, 2017, 13, 237-242.	0.3	10
95	A universal approach to determine footfall timings from kinematics of a single foot marker in hoofed animals. PeerJ, 2015, 3, e783.	0.9	10
96	3D kinematics of the interphalangeal joints in the forelimb of walking and trotting horses. Veterinary and Comparative Orthopaedics and Traumatology, 2007, 20, 1-7.	0.2	10
97	A Preliminary Study of Transitions between the Walk and Trot in Dressage Horses. Cells Tissues Organs, 1993, 146, 179-182.	1.3	9
98	Time-motion analysis of show jumping competitions. Journal of Equine Veterinary Science, 1996, 16, 262-266.	0.4	9
99	Effect of added weight on landing kinematics in jumping horses. Equine Veterinary Journal, 1997, 29, 50-53.	0.9	9
100	Effects of weight carrying, exercise and a myoâ€anabolic supplement on growth and muscle. Equine Veterinary Journal, 2002, 34, 178-181.	0.9	9
101	A simple method for equine kinematic gait event detection. Equine Veterinary Journal, 2017, 49, 688-691.	0.9	9
102	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.	1.1	9
103	A study of transitions between the trot and canter in dressage horses. Journal of Equine Veterinary Science, 1993, 13, 171-174.	0.4	8
104	Comparison of the temporal kinematics of the canter pirouette and collected canter. Equine Veterinary Journal, 1997, 29, 58-61.	0.9	8
105	Individual Limb Contributions to Centripetal Force Generation during Circular Trot. Equine Veterinary Journal, 2014, 46, 38-38.	0.9	8
106	Does foot pronation in unmounted horseback riders affect pelvic movement during walking?. Comparative Exercise Physiology, 2015, 11, 231-238.	0.3	8
107	Rein Tension in Transitions and Halts during Equestrian Dressage Training. Animals, 2019, 9, 712.	1.0	8
108	Gymnastic Training of Hippotherapy Horses Benefits Gait Quality When Ridden by Riders with Different Body Weights. Journal of Equine Veterinary Science, 2020, 94, 103248.	0.4	8

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109	Effects of Racing Surface and Turn Radius on Fatal Limb Fractures in Thoroughbred Racehorses. Sustainability, 2021, 13, 539.	1.6	8
110	Relationships between the Riderâ€™s Pelvic Mobility and Balance on a Gymnastic Ball with Equestrian Skills and Effects on Horse Welfare. Animals, 2021, 11, 453.	1.0	8
111	Effects of Offset-Normalizing Techniques on Variability in Motion Analysis Data. Journal of Applied Biomechanics, 2004, 20, 177-184.	0.3	7
112	Biomechanics of the Distal Interphalangeal Joint. Journal of Equine Veterinary Science, 2010, 30, 401-405.	0.4	7
113	The effect of an acute angulation of the hind hooves on diagonal synchrony of trotting horses. Equine Veterinary Journal, 1990, 22, 91-94.	0.9	7
114	The Use of Pressure Plates for Static Center of Pressure Analysis in Horses. Journal of Equine Veterinary Science, 2015, 35, 315-320.	0.4	7
115	Ground reaction forces of elite dressage horses in collected trot and passage. Veterinary Journal, 2017, 221, 30-33.	0.6	7
116	Dressage training affects temporal variables in transitions between trot and halt. Comparative Exercise Physiology, 2009, 6, 89.	0.3	6
117	Comparison of rider stability in a flapless saddle versus a conventional saddle. PLoS ONE, 2018, 13, e0196960.	1.1	6
118	Pre-Competition Oral Findings in Danish Sport Horses and Ponies Competing at High Level. Animals, 2022, 12, 616.	1.0	6
119	The reliability of force platform data from trotting horses. Equine and Comparative Exercise Physiology, 2005, 2, 129-132.	0.4	5
120	Factors that influence vertical velocity during take off over a water jump. Equine Veterinary Journal, 1995, 27, 138-140.	0.9	5
121	Modelling rein tension during riding sessions using the generalised additive modelling technique. Comparative Exercise Physiology, 2018, 14, 209-221.	0.3	5
122	Withers vertical movement asymmetry in dressage horses walking in different head-neck positions with and without riders. Journal of Veterinary Behavior: Clinical Applications and Research, 2020, 36, 72-83.	0.5	5
123	Equine Rehabilitation: A Scoping Review of the Literature. Animals, 2021, 11, 1508.	1.0	5
124	Guidelines for the Measurement of Rein Tension in Equestrian Sport. Animals, 2021, 11, 2875.	1.0	5
125	Collisional mechanics of the diagonal gaits of horses over a range of speeds. PeerJ, 2019, 7, e7689.	0.9	5
126	Assessment of Skin and Mucosa at the Equine Oral Commissures to Assess Pathology from Bit Wear: The Oral Commissure Assessment Protocol (OCA) for Analysis and Categorisation of Oral Commissures. Animals, 2022, 12, 643.	1.0	5

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127	Power flow in the equine forelimb. Equine Veterinary Journal, 1997, 29, 37-40.	0.9	4
128	Ground Reaction Forces of Dressage Horses Performing the Piaffe. Animals, 2021, 11, 436.	1.0	4
129	Know your noseband: an exploration of factors that influence ridersâ€™ choice of noseband. Journal of Veterinary Behavior: Clinical Applications and Research, 2021, 47, 1-1.	0.5	4
130	nRider skill affects time and frequency domain postural variables when performing shoulder-in. Journal of Equine Veterinary Science, 2021, 109, 103805.	0.4	4
131	Development of conditioning programs for dressage horses based on time-motion analysis of competitions. Journal of Applied Physiology, 1993, 74, 2325-2329.	1.2	3
132	Rider reported factors influencing choice of stirrup length in dressage, showjumping and eventing, and para equestrianism. Comparative Exercise Physiology, 2018, 14, 231-238.	0.3	3
133	An exploration of stakeholder perceptions to inform the development of an evidence-based classification system in para dressage. Journal of Sports Sciences, 2022, 40, 459-469.	1.0	3
134	The Olympic motto through the lens of equestrian sports. Animal Frontiers, 2022, 12, 45-53.	0.8	3
135	Evaluation of a pictorial method to obtain subjectâ€specific inertial properties in equine limb segments. Journal of Morphology, 2018, 279, 997-1007.	0.6	2
136	Asymmetries of horses walking and trotting on treadmill with and without rider. Equine Veterinary Journal, 2021, 53, 157-166.	0.9	2
137	Characteristics of the Flight Arc in Horses Jumping Three Different Types of Fences in Olympic Competition. Journal of Equine Veterinary Science, 2021, 104, 103698.	0.4	2
138	Roll and pitch of the rider's pelvis during horseback riding at walk on a circle. Journal of Equine Veterinary Science, 2021, 109, 103798.	0.4	2
139	Kinematic analysis of cutting horses working a mechanical flag. American Journal of Veterinary Research, 1989, 50, 1418-22.	0.3	2
140	Short-term habituation of equine limb kinematics to tactile stimulation of the coronet. Veterinary and Comparative Orthopaedics and Traumatology, 2008, 21, 211-4.	0.2	2
141	Physical fitness for the equine athlete. Equine Veterinary Education, 1995, 7, 264-269.	0.3	0
142	Progress in equine locomotion terminology. Equine Veterinary Journal, 1995, 27, 474-475.	0.9	0
143	Assessing English Saddle Fit in Performance Horses. , 2015, , 116-120.		0
144	Gymnastic training and dynamic mobilization work in therapy horses improve the stride and epaxial musculature quality. , 2015, , 105-112.		0