Chris Whitton

List of Publications by Year
in descending order

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68 papers	1,343 citations	361045 20 h-index	395343 33 g-index
71 all docs	71 docs citations	71 times ranked	639 citing authors

#	Article	IF	Citations
1	The diagnosis of lameness associated with distal limbpathology in a horse: A comparison of radiography, computed tomography and magnetic resonance imaging. Veterinary Journal, 1998, 155, 223-229.	0.6	98
2	Relationship between muscle forces, joint loading and utilization of elastic strain energy in equine locomotion. Journal of Experimental Biology, 2010, 213, 3998-4009.	0.8	88
3	Evaluation of a subject-specific finite-element model of the equine metacarpophalangeal joint under physiological load. Journal of Biomechanics, 2014, 47, 65-73.	0.9	85
4	Bone fatigue and its implications for injuries in racehorses. Equine Veterinary Journal, 2014, 46, 408-415.	0.9	84
5	Third metacarpal condylar fatigue fractures in equine athletes occur within previously modelled subchondral bone. Bone, 2010, 47, 826-831.	1.4	78
6	Meta-analysis of risk factors for racehorse catastrophic musculoskeletal injury in flat racing. Veterinary Journal, 2019, 245, 29-40.	0.6	68
7	Shock absorbing ability of articular cartilage and subchondral bone under impact compression. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 26, 127-135.	1.5	51
8	Forelimb muscle activity during equine locomotion. Journal of Experimental Biology, 2012, 215, 2980-2991.	0.8	45
9	Subchondral bone microdamage accumulation in distal metacarpus of Thoroughbred racehorses. Equine Veterinary Journal, 2018, 50, 766-773.	0.9	45
10	Retrospective investigation of prognostic indicators for adult horses with infection of a synovial structure. Australian Veterinary Journal, 2011, 89, 226-231.	0.5	44
11	Thoroughbred horses in race training have lower levels of subchondral bone remodelling in highly loaded regions of the distal metacarpus compared to horses resting from training. Veterinary Journal, 2014, 202, 443-447.	0.6	40
12	The Intercarpal Ligaments of the Equine Midcarpal Joint, Part 3: Clinical Observations in 32 Racing Horses With Midcarpal Joint Disease. Veterinary Surgery, 1997, 26, 374-381.	0.5	34
13	The sacroiliac joints: evaluation using nuclear scintigraphy. Part 1: The normal horse. Equine Veterinary Journal, 2010, 35, 226-232.	0.9	30
14	Osteochondral fragmentation of the plantar/palmar proximal aspect of the proximal phalanx in racing horses. Australian Veterinary Journal, 1994, 71, 318-321.	0.5	28
15	Patterns of scintigraphic uptake in the fetlock joint of Thoroughbred racehorses and the effect of increased radiopharmaceutical uptake in the distal metacarpal/tarsal condyle on performance. Equine Veterinary Journal, 2011, 43, 509-515.	0.9	28
16	The Intercarpal Ligaments of the Equine Midcarpal Joint, Part 2: The Role of the Palmar Intercarpal Ligaments in the Restraint of Dorsal Displacement of the Proximal Row of Carpal Bones. Veterinary Surgery, 1997, 26, 367-373.	0.5	27
17	Training practices, speed and distances undertaken by Thoroughbred racehorses in Victoria, Australia. Equine Veterinary Journal, 2020, 52, 273-280.	0.9	26
18	Compressive fatigue life of subchondral bone of the metacarpal condyle in thoroughbred racehorses. Bone, 2013, 57, 392-398.	1.4	25

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19	Musculoskeletal injury rates in Thoroughbred racehorses following local corticosteroid injection. Veterinary Journal, 2014, 200, 71-76.	0.6	25
20	The Intercarpal Ligaments of the Equine Midcarpal Joint, Part 1: The Anatomy of the Palmar and Dorsomedial Intercarpal Ligaments of the Midcarpal Joint. Veterinary Surgery, 1997, 26, 359-366.	0.5	24
21	Role of subchondral bone remodelling in collapse of the articular surface of <scp>T</scp>horoughbred racehorses with palmar osteochondral disease. Equine Veterinary Journal, 2016, 48, 228-233.	0.9	24
22	Can highâ€resolution peripheral quantitative computed tomography imaging of subchondral and cortical bone predict condylar fracture in <scp>T</scp>horoughbred racehorses?. Equine Veterinary Journal, 2015, 47, 428-432.	0.9	21
23	Exercise-induced inhibition of remodelling is focally offset with fatigue fracture in racehorses. Osteoporosis International, 2013, 24, 2043-2048.	1.3	18
24	Scienceâ€inâ€brief: Risk assessment for reducing injuries of the fetlock bones in Thoroughbred racehorses. Equine Veterinary Journal, 2020, 52, 482-488.	0.9	18
25	Muscle strain injuries of the hindlimb in eight horses: diagnostic imaging, management and outcomes. Australian Veterinary Journal, 2010, 88, 313-321.	0.5	16
26	Subchondral bone morphology in the metacarpus of racehorses in training changes with distance from the articular surface but not with age. Journal of Anatomy, 2018, 232, 919-930.	0.9	16
27	Variation in GPS and accelerometer recorded velocity and stride parameters of galloping Thoroughbred horses. Equine Veterinary Journal, 2021, 53, 1063-1074.	0.9	15
28	Successful laparoscopic surgery for a uterine leiomyoma in a mare. Equine Veterinary Education, 2008, 20, 508-511.	0.3	13
29	Prevalence of subchondral bone pathological changes in the distal metacarpi/metatarsi of racing Thoroughbred horses. Australian Veterinary Journal, 2017, 95, 362-369.	0.5	13
30	Track Surfaces Used for Ridden Workouts and Alternatives to Ridden Exercise for Thoroughbred Horses in Race Training. Animals, 2018, 8, 221.	1.0	12
31	The relationship between microstructure, stiffness and compressive fatigue life of equine subchondral bone. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103439.	1.5	12
32	Postmortem lesions in the intercarpal ligaments of the equine midcarpal joint. Australian Veterinary Journal, 1997, 75, 746-750.	0.5	11
33	Postoperative performance of racing horses with tearing of the medial palmar intercarpal ligament. Australian Veterinary Journal, 1999, 77, 713-717.	0.5	11
34	A cranial intercondylar arthroscopic approach to the caudal medial femorotibial joint of the horse. Equine Veterinary Journal, 2009, 41, 5-10.	0.9	10
35	IDENTIFICATION AND PREVALENCE OF ERRORS AFFECTING THE QUALITY OF RADIOGRAPHS SUBMITTED TO AUSTRALIAN THOROUGHBRED YEARLING SALE REPOSITORIES. Veterinary Radiology and Ultrasound, 2011, 52, 262-269.	0.4	10
36	Effect of displaced versus nonâ€displaced pelvic fractures on longâ€term racing performance in 31 <scp>T</scp>horoughbred racehorses. Australian Veterinary Journal, 2013, 91, 246-250.	0.5	10

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37	Changes in Thoroughbred speed and stride characteristics over successive race starts and their association with musculoskeletal injury. Equine Veterinary Journal, 2023, 55, 194-204.	0.9	10
38	Use of a novel helical fan beam imaging system for computed tomography of the distal limb in sedated standing horses: 167 cases (2019â€“2020). Journal of the American Veterinary Medical Association, 2022, 260, 1351-1360.	0.2	10
39	Associations between pre-injury racing history and tibial and humeral fractures in Australian Thoroughbred racehorses. Veterinary Journal, 2019, 247, 44-49.	0.6	9
40	Microstructural properties of the proximal sesamoid bones of Thoroughbred racehorses in training. Equine Veterinary Journal, 2021, 53, 1169-1177.	0.9	9
41	Fatigue behavior of subchondral bone under simulated physiological loads of equine athletic training. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103920.	1.5	8
42	An assessment of intraâ€•and interobserver agreement of reporting orthopaedic findings on presale radiographs of <scp>T</scp>horoughbred yearlings. Equine Veterinary Journal, 2014, 46, 567-574.	0.9	6
43	Mathematical modelling of bone adaptation of the metacarpal subchondral bone in racehorses. Biomechanics and Modeling in Mechanobiology, 2018, 17, 877-890.	1.4	6
44	Biomechanical testing of the calcified metacarpal articular surface and its association with subchondral bone microstructure in Thoroughbred racehorses. Equine Veterinary Journal, 2018, 50, 255-260.	0.9	6
45	Effects of in vivo fatigue-induced subchondral bone microdamage on the mechanical response of cartilage-bone under a single impact compression. Journal of Biomechanics, 2020, 100, 109594.	0.9	6
46	In vitro evaluation of canine leukocytes radiolabeled in whole blood with 99mTc stannous colloid. Nuclear Medicine and Biology, 2008, 35, 707-712.	0.3	5
47	Medial collateral ligament desmitis of the distal interphalangeal joint in the hindlimb of a horse: treatment with cast immobilisation. Australian Veterinary Journal, 2009, 87, 499-502.	0.5	5
48	Association between the purchase price of Thoroughbred yearlings and their performance during the 2- and 3-year-old racing seasons. Australian Veterinary Journal, 2011, 89, 388-393.	0.5	5
49	A method for fatigue testing of equine McIII subchondral bone under a simulated fast workout training programme. Equine Veterinary Journal, 2020, 52, 332-335.	0.9	5
50	Hoof conformation and performance in the racing Thoroughbred in Macau. Australian Veterinary Journal, 2013, 91, 108-112.	0.5	4
51	Solar angle of the distal phalanx is associated with scintigraphic evidence of subchondral bone injury in the palmar/plantar aspect of the third metacarpal/tarsal condyles in Thoroughbred racehorses. Equine Veterinary Journal, 2019, 51, 720-726.	0.9	4
52	Histopathological Findings in the Medial Palmar and Dorsomedial Intercarpal Ligaments of the Equine Midcarpal Joint; Book Review. Veterinary Journal, 1999, 157, 23-30.	0.6	3
53	Distribution of mechanical strain in equine distal metacarpal subchondral bone: A microCT-based finite element model. Medicine in Novel Technology and Devices, 2020, 6, 100036.	0.9	3
54	Association of Thoroughbred Racehorse Workloads and Rest Practices with Trainer Success. Animals, 2021, 11, 3130.	1.0	3

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55	Biomechanical and Microstructural Properties of Subchondral Bone From Three Metacarpophalangeal Joint Sites in Thoroughbred Racehorses. Frontiers in Veterinary Science, 0, 9, .	0.9	3
56	Relationship between Thoroughbred workloads in racing and the fatigue life of equine subchondral bone. Scientific Reports, 2022, 12, .	1.6	3
57	Subchondral Bone Remodelling Is More Active in Resting Than Training Thoroughbred Racehorses. Equine Veterinary Journal, 2014, 46, 27-28.	0.9	2
58	A Coupled Biomechanical-Smoothed Particle Hydrodynamics Model for Horse Racing Tracks. Frontiers in Bioengineering and Biotechnology, 2022, 10, 766748.	2.0	2
59	IN VITRO EVALUATION OF FELINE LEUKOCYTES RADIOLABELED IN WHOLE BLOOD WITH ^{99M}TC STANNOUS COLLOID. Veterinary Radiology and Ultrasound, 2009, 50, 545-549.	0.4	1
60	Biodistribution of canine leucocytes labelled with technetium-99m stannous fluoride colloid in whole blood and their ability to localise to sites of induced inflammation. Veterinary Journal, 2010, 185, 157-162.	0.6	1
61	Associations between the radiographic appearance of vascular channels in proximal sesamoid bones, their microstructural characteristics and past racing performance in Thoroughbreds. Equine Veterinary Journal, 2020, 52, 670-677.	0.9	1
62	Osteochondral fragmentation of the palmarolateral/plantarolateral aspect of the distal phalanx in four horses: A novel location. Equine Veterinary Education, 0, , .	0.3	1
63	Catastrophic Musculoskeletal Injuries in Thoroughbred Racehorses in Uruguay, 2011-2017. Journal of Equine Veterinary Science, 2022, 117, 104074.	0.4	1
64	Chemical arthrodesis of the distal tarsal joints using sodium monoiodoacetate in 104 horses. Australian Veterinary Journal, 2004, 82, 286-286.	0.5	0
65	Therapeutic Farriery: A Manual for Veterinarians and Farriers. 1st edn - Edited by Yehuda Avisar. Australian Veterinary Journal, 2008, 86, 454-454.	0.5	0
66	The European and Australasian Standardbreds. , 2011, , 1036-1051.		0
67	Tarsus and stifle. , 2014, , 367-398.		0
68	The European and Australasian Standardbreds. , 2003, , 913-927.		0