

Antonie J Van Den Bogert

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170
papers

11,546
citations

51
h-index

105
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200
ext. papers

13,105
ext. citations

3
avg, IF

6.22
L-index

#	Paper	IF	Citations
170	Biomechanical measures of neuromuscular control and valgus loading of the knee predict anterior cruciate ligament injury risk in female athletes: a prospective study. <i>American Journal of Sports Medicine</i> , 2005 , 33, 492-501	6.8	2400
169	Model-based estimation of muscle forces exerted during movements. <i>Clinical Biomechanics</i> , 2007 , 22, 131-54	2.2	580
168	Effect of skin movement on the analysis of skeletal knee joint motion during running. <i>Journal of Biomechanics</i> , 1997 , 30, 729-32	2.9	342
167	Aggressive quadriceps loading can induce noncontact anterior cruciate ligament injury. <i>American Journal of Sports Medicine</i> , 2004 , 32, 477-83	6.8	320
166	Effect of gender and defensive opponent on the biomechanics of sidestep cutting. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 1008-16	1.2	309
165	Sagittal plane biomechanics cannot injure the ACL during sidestep cutting. <i>Clinical Biomechanics</i> , 2004 , 19, 828-38	2.2	293
164	Effect of low pass filtering on joint moments from inverse dynamics: implications for injury prevention. <i>Journal of Biomechanics</i> , 2012 , 45, 666-71	2.9	285
163	Association between lower extremity posture at contact and peak knee valgus moment during sidestepping: implications for ACL injury. <i>Clinical Biomechanics</i> , 2005 , 20, 863-70	2.2	272
162	Optimality principles for model-based prediction of human gait. <i>Journal of Biomechanics</i> , 2010 , 43, 1055-60	2.9	253
161	Direct dynamics simulation of the impact phase in heel-toe running. <i>Journal of Biomechanics</i> , 1995 , 28, 661-8	2.9	222
160	The influence of foot positioning on ankle sprains. <i>Journal of Biomechanics</i> , 2000 , 33, 513-9	2.9	213
159	Tibiofemoral and tibioalcalcaneal motion during walking: external vs. skeletal markers. <i>Gait and Posture</i> , 1997 , 6, 98-109	2.6	188
158	A real-time system for biomechanical analysis of human movement and muscle function. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 1069-77	3.1	186
157	Horses damp the spring in their step. <i>Nature</i> , 2001 , 414, 895-9	50.4	185
156	Longitudinal sex differences during landing in knee abduction in young athletes. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 1923-31	1.2	182
155	Evaluation of a two dimensional analysis method as a screening and evaluation tool for anterior cruciate ligament injury. <i>British Journal of Sports Medicine</i> , 2005 , 39, 355-62	10.3	174
154	Development and validation of a 3-D model to predict knee joint loading during dynamic movement. <i>Journal of Biomechanical Engineering</i> , 2003 , 125, 864-74	2.1	170

153	Kinematic adaptations during running: effects of footwear, surface, and duration. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 838-44	1.2	161
152	Effects of foot orthoses on skeletal motion during running. <i>Clinical Biomechanics</i> , 2000 , 15, 54-64	2.2	161
151	In vivo determination of the anatomical axes of the ankle joint complex: an optimization approach. <i>Journal of Biomechanics</i> , 1994 , 27, 1477-88	2.9	142
150	Muscle coordination and function during cutting movements. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 294-302	1.2	131
149	Structural basis for delivery of the intact [Fe2S2] cluster by monothiol glutaredoxin. <i>Biochemistry</i> , 2009 , 48, 6041-3	3.2	124
148	Tibiocalcaneal motion during running, measured with external and bone markers. <i>Clinical Biomechanics</i> , 1997 , 12, 8-16	2.2	124
147	Ground reaction force patterns of Dutch warmblood horses at normal trot. <i>Equine Veterinary Journal</i> , 1993 , 25, 134-7	2.4	115
146	Personal Navigation via High-Resolution Gait-Corrected Inertial Measurement Units. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 3018-3027	5.2	109
145	The influence of orthotic devices and vastus medialis strength and timing on patellofemoral loads during running. <i>Clinical Biomechanics</i> , 2000 , 15, 611-8	2.2	109
144	Response time is more important than walking speed for the ability of older adults to avoid a fall after a trip. <i>Journal of Biomechanics</i> , 2002 , 35, 199-205	2.9	103
143	Tibiocalcaneal kinematics of barefoot versus shod running. <i>Journal of Biomechanics</i> , 2000 , 33, 1387-95	2.9	102
142	A Method for Numerical Simulation of Single Limb Ground Contact Events: Application to Heel-Toe Running. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2000 , 3, 321-334	2.1	100
141	Implicit methods for efficient musculoskeletal simulation and optimal control. <i>Procedia IUTAM</i> , 2011 , 2, 297-316		99
140	Effect of gender on lower extremity kinematics during rapid direction changes: an integrated analysis of three sports movements. <i>Journal of Science and Medicine in Sport</i> , 2005 , 8, 411-22	4.4	97
139	An analysis of hip joint loading during walking, running, and skiing. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 131-42	1.2	90
138	Influence of shoeing on ground reaction forces and tendon strains in the forelimbs of ponies. <i>Equine Veterinary Journal</i> , 1996 , 28, 126-32	2.4	80
137	Estimation of musculotendon kinematics in large musculoskeletal models using multidimensional B-splines. <i>Journal of Biomechanics</i> , 2012 , 45, 595-601	2.9	78
136	Exotendons for assistance of human locomotion. <i>BioMedical Engineering OnLine</i> , 2003 , 2, 17	4.1	78

135	Contributions of proximal and distal moments to axial tibial rotation during walking and running. <i>Journal of Biomechanics</i> , 2000 , 33, 1397-403	2.9	74
134	Correction models for skin displacement in equine kinematics gait analysis. <i>Journal of Equine Veterinary Science</i> , 1992 , 12, 178-192	1.2	72
133	Effects of shoe sole construction on skeletal motion during running. <i>Medicine and Science in Sports and Exercise</i> , 2001 , 33, 311-9	1.2	71
132	Investigating isolated neuromuscular control contributions to non-contact anterior cruciate ligament injury risk via computer simulation methods. <i>Clinical Biomechanics</i> , 2008 , 23, 926-36	2.2	70
131	A real-time, 3-D musculoskeletal model for dynamic simulation of arm movements. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 941-8	5	67
130	The clinical biomechanics award paper 1995 Lower extremity joint loading during impact in running. <i>Clinical Biomechanics</i> , 1996 , 11, 181-193	2.2	67
129	A method for inverse dynamic analysis using accelerometry. <i>Journal of Biomechanics</i> , 1996 , 29, 949-54	2.9	67
128	Tendon strain in the forelimbs as a function of gait and ground characteristics and in vitro limb loading in ponies. <i>Equine Veterinary Journal</i> , 1996 , 28, 133-8	2.4	65
127	Passive regulation of impact forces in heel-toe running. <i>Clinical Biomechanics</i> , 1998 , 13, 521-531	2.2	64
126	Computer simulation of landing movement in downhill skiing: anterior cruciate ligament injuries. <i>Journal of Biomechanics</i> , 1996 , 29, 845-54	2.9	64
125	How the horse moves: 1. Significance of graphical representations of equine forelimb kinematics. <i>Equine Veterinary Journal</i> , 1995 , 27, 31-8	2.4	63
124	Human muscle modelling from a user's perspective. <i>Journal of Electromyography and Kinesiology</i> , 1998 , 8, 119-24	2.5	60
123	How the horse moves: 2. Significance of graphical representations of equine hind limb kinematics. <i>Equine Veterinary Journal</i> , 1995 , 27, 39-45	2.4	58
122	Concurrent musculoskeletal dynamics and finite element analysis predicts altered gait patterns to reduce foot tissue loading. <i>Journal of Biomechanics</i> , 2010 , 43, 2810-5	2.9	56
121	Modelling of force production in skeletal muscle undergoing stretch. <i>Journal of Biomechanics</i> , 1996 , 29, 1091-104	2.9	55
120	Helical axes of skeletal knee joint motion during running. <i>Journal of Biomechanics</i> , 2008 , 41, 1632-8	2.9	51
119	In vivo tendon forces in the forelimb of ponies at the walk, validated by ground reaction force measurements. <i>Cells Tissues Organs</i> , 1993 , 146, 162-7	2.1	51
118	An elaborate data set on human gait and the effect of mechanical perturbations. <i>PeerJ</i> , 2015 , 3, e918	3.1	50

117	Kinematics of the standardbred trotter measured at 6, 7, 8 and 9 m/s on a treadmill, before and after 5 months of prerace training. <i>Cells Tissues Organs</i> , 1993 , 146, 154-61	2.1	47
116	Kinematic gait analysis in equine carpal lameness. <i>Cells Tissues Organs</i> , 1993 , 146, 86-9	2.1	47
115	On the Number and Placement of Accelerometers for Angular Velocity and Acceleration Determination. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 552-554	1.6	46
114	Adaptive surrogate modeling for efficient coupling of musculoskeletal control and tissue deformation models. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 011014	2.1	42
113	Standard mechanical energy analyses do not correlate with muscle work in cycling. <i>Journal of Biomechanics</i> , 1998 , 31, 239-45	2.9	42
112	Standardization proposal of soft tissue artefact description for data sharing in human motion measurements. <i>Journal of Biomechanics</i> , 2017 , 62, 5-13	2.9	41
111	Simulation of quadrupedal locomotion using a rigid body model. <i>Journal of Biomechanics</i> , 1989 , 22, 33-41	2.9	40
110	Real-time simulation of three-dimensional shoulder girdle and arm dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1947-56	5	39
109	Predictive simulation of gait at low gravity reveals skipping as the preferred locomotion strategy. <i>Journal of Biomechanics</i> , 2012 , 45, 1293-8	2.9	38
108	The effects of age and skill level on knee musculature co-contraction during functional activities: a systematic review. <i>British Journal of Sports Medicine</i> , 2008 , 42, 561-6	10.3	38
107	The biomechanical role of scaffolds in augmented rotator cuff tendon repairs. <i>Journal of Shoulder and Elbow Surgery</i> , 2012 , 21, 1064-71	4.3	37
106	Correction for skin displacement errors in movement analysis of the horse. <i>Journal of Biomechanics</i> , 1990 , 23, 97-101	2.9	37
105	Kinetics and kinematics of the equine hind limb: in vivo tendon strain and joint kinematics. <i>American Journal of Veterinary Research</i> , 1988 , 49, 1353-9	1.1	37
104	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. <i>Journal of Biomechanics</i> , 2020 , 99, 109533	2.9	37
103	Model formulation and determination of in vitro parameters of a noninvasive method to calculate flexor tendon forces in the equine forelimb. <i>American Journal of Veterinary Research</i> , 2001 , 62, 1585-93	1.1	36
102	Relationship between jump landing kinematics and peak ACL force during a jump in downhill skiing: a simulation study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014 , 24, e180-7	4.6	35
101	Movement coupling at the ankle during the stance phase of running. <i>Foot and Ankle International</i> , 2000 , 21, 232-9	3.3	34
100	Quantification of skin displacement near the carpal, tarsal and fetlock joints of the walking horse. <i>Equine Veterinary Journal</i> , 1988 , 20, 203-8	2.4	34

99	Training an Actor-Critic Reinforcement Learning Controller for Arm Movement Using Human-Generated Rewards. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1892-1905	4.8	33
98	Design and validation of a general purpose robotic testing system for musculoskeletal applications. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 025001	2.1	32
97	Estimation of gait kinematics and kinetics from inertial sensor data using optimal control of musculoskeletal models. <i>Journal of Biomechanics</i> , 2019 , 95, 109278	2.9	31
96	Optimization and evaluation of a proportional derivative controller for planar arm movement. <i>Journal of Biomechanics</i> , 2010 , 43, 1086-91	2.9	31
95	Quantification of the locomotion of Dutch Warmblood foals. <i>Cells Tissues Organs</i> , 1993 , 146, 141-7	2.1	31
94	Joint contact forces can be reduced by improving joint moment symmetry in below-knee amputee gait simulations. <i>Gait and Posture</i> , 2016 , 49, 219-225	2.6	31
93	Modeling and optimal control of an energy-storing prosthetic knee. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 051007	2.1	29
92	Gender dimorphic ACL strain in response to combined dynamic 3D knee joint loading: implications for ACL injury risk. <i>Knee</i> , 2009 , 16, 432-40	2.6	28
91	The effect of tibiofemoral loading on proximal tibiofibular joint motion. <i>Journal of Anatomy</i> , 2007 , 211, 647-53	2.9	28
90	Real-time simulation of hand motion for prosthesis control. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 540-549	2.1	27
89	The effects of ankle compliance and flexibility on ankle sprains. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 260-5	1.2	27
88	Strain of the musculus interosseus medius and its rami extensorii in the horse, deduced from in vivo kinematics. <i>Cells Tissues Organs</i> , 1993 , 147, 118-24	2.1	27
87	Quantitative analysis of computer-averaged electromyographic profiles of intrinsic limb muscles in ponies at the walk. <i>American Journal of Veterinary Research</i> , 1992 , 53, 2343-9	1.1	27
86	Skating technique for the straights, based on the optimization of a simulation model. <i>Medicine and Science in Sports and Exercise</i> , 1997 , 29, 279-86	1.2	26
85	A weighted least squares method for inverse dynamic analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008 , 11, 3-9	2.1	25
84	Measurement techniques in animal locomotion analysis. <i>Cells Tissues Organs</i> , 1993 , 146, 123-9	2.1	24
83	A metabolic energy expenditure model with a continuous first derivative and its application to predictive simulations of gait. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 521-531	2.1	22
82	Expressing the joint moments of drop jumps and sidestep cutting in different reference frames--does it matter?. <i>Journal of Biomechanics</i> , 2014 , 47, 193-9	2.9	22

81	Aggressive quadriceps loading can induce noncontact anterior cruciate ligament injury. <i>American Journal of Sports Medicine</i> , 2005 , 33, 1106; author reply 1106-7	6.8	22
80	Influence of ankle ligaments on tibial rotation: an in vitro study. <i>Foot and Ankle International</i> , 1996 , 17, 79-84	3.3	21
79	Foot and ankle forces during an automobile collision: the influence of muscles. <i>Journal of Biomechanics</i> , 2004 , 37, 637-44	2.9	21
78	Metabolic cost calculations of gait using musculoskeletal energy models, a comparison study. <i>PLoS ONE</i> , 2019 , 14, e0222037	3.7	20
77	A quantitative analysis of skin displacement in the trotting horse. <i>Equine Veterinary Journal</i> , 1990 , 22, 101-9	2.4	20
76	A method to determine bone movement in the ankle joint complex in vitro. <i>Journal of Biomechanics</i> , 1997 , 30, 513-6	2.9	20
75	A three-dimensional inverse finite element analysis of the heel pad. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 031002	2.1	19
74	A kinematic and strain gauge study of the reciprocal apparatus in the equine hind limb. <i>Journal of Biomechanics</i> , 1992 , 25, 1291-301	2.9	18
73	Comparison of two methods of determining patellofemoral joint stress during dynamic activities. <i>Gait and Posture</i> , 2015 , 42, 218-22	2.6	17
72	An elaborate data set characterizing the mechanical response of the foot. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 094502	2.1	17
71	CNN-Based Estimation of Sagittal Plane Walking and Running Biomechanics From Measured and Simulated Inertial Sensor Data. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 604	5.8	16
70	Personal navigation via shoe mounted inertial measurement units 2010 ,		16
69	OpenSim Versus Human Body Model: A Comparison Study for the Lower Limbs During Gait. <i>Journal of Applied Biomechanics</i> , 2018 , 1-7	1.2	16
68	Predictive musculoskeletal simulation using optimal control: effects of added limb mass on energy cost and kinematics of walking and running. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2012 , 226, 123-133	0.7	15
67	Mechanical properties of the tendinous equine interosseus muscle are affected by in vivo transducer implantation. <i>Journal of Biomechanics</i> , 1998 , 31, 485-90	2.9	14
66	Robotic testing of proximal tibio-fibular joint kinematics for measuring instability following total knee arthroplasty. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 47-52	3.8	13
65	Optimal design of a transfemoral prosthesis with energy storage and regeneration 2014 ,		12
64	Semiactive Virtual Control Method for Robots with Regenerative Energy-Storing Joints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10244-10250		12

63	Quantification of skin displacement in the proximal parts of the limbs of the walking horse. <i>Equine Veterinary Journal</i> , 1990 , 22, 110-8	2.4	12
62	Optimal design and control of an electromechanical transfemoral prosthesis with energy regeneration. <i>PLoS ONE</i> , 2017 , 12, e0188266	3.7	11
61	. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 46, 723-733	4.1	11
60	Impingement and stability of total hip arthroplasty versus femoral head resurfacing using a cadaveric robotics model. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1108-15	3.8	11
59	Comment: effect of fatigue on knee kinetics and kinematics in stop-jump tasks. <i>American Journal of Sports Medicine</i> , 2006 , 34, 312-5; author reply 313-5	6.8	11
58	Multi-body modelling and simulation of animal locomotion. <i>Cells Tissues Organs</i> , 1993 , 146, 95-102	2.1	11
57	Model-Based Control of Individual Finger Movements for Prosthetic Hand Function. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 612-620	4.8	10
56	Development of dynamic models of the Mauch prosthetic knee for prospective gait simulation. <i>Journal of Biomechanics</i> , 2014 , 47, 3178-84	2.9	10
55	Assessing vaginal surgical skills using video motion analysis. <i>Obstetrics and Gynecology</i> , 2009 , 114, 244-251	4.9	10
54	Achilles tendon loads at walk measured using a novel ultrasonic technique. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005 , 8, 221-222	2.1	10
53	Simulation of lower limb axial arterial length change during locomotion. <i>Journal of Biomechanics</i> , 2012 , 45, 1485-90	2.9	9
52	Review of musculoskeletal modelling in a clinical setting: Current use in rehabilitation design, surgical decision making and healthcare interventions. <i>Clinical Biomechanics</i> , 2021 , 83, 105292	2.2	9
51	A High-Fidelity Wearable System for Measuring Lower-Limb Kinetics and Kinematics. <i>IEEE Sensors Journal</i> , 2019 , 19, 12482-12493	4	8
50	Inertial compensation for belt acceleration in an instrumented treadmill. <i>Journal of Biomechanics</i> , 2014 , 47, 3758-61	2.9	8
49	Simulation Analysis of Linear Quadratic Regulator Control of Sagittal-Plane Human Walking-Implications for Exoskeletons. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	8
48	An analytical model for rotator cuff repairs. <i>Clinical Biomechanics</i> , 2010 , 25, 751-8	2.2	8
47	Kinematic analysis of world championship three-day event horses jumping a cross-country drop fence. <i>Journal of Equine Veterinary Science</i> , 1995 , 15, 527-531	1.2	8
46	Evolutionary optimization of ground reaction force for a prosthetic leg testing robot 2014 ,		7

45	Effect of Drop Height on Lower Extremity Biomechanical Measures in Female Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, S80	1.2	7
44	Optimal control simulation predicts effects of midsole materials on energy cost of running. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 869-879	2.1	6
43	Peak ACL force during jump landing in downhill skiing is less sensitive to landing height than landing position. <i>British Journal of Sports Medicine</i> , 2018 , 52, 1086-1090	10.3	6
42	Multi-Objective Optimization of Impedance Parameters in a Prosthesis Test Robot 2015 ,		6
41	The contribution of the acetabular labrum to hip joint stability: a quantitative analysis using a dynamic three-dimensional robot model. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 061012	2.1	6
40	Evaluating the Physical Realism of Character Animations Using Musculoskeletal Models. <i>Lecture Notes in Computer Science</i> , 2010 , 11-22	0.9	6
39	Active disturbance rejection control for human postural sway 2011 ,		6
38	Pre-impact lower extremity posture and brake pedal force predict foot and ankle forces during an automobile collision. <i>Journal of Biomechanical Engineering</i> , 2004 , 126, 770-8	2.1	6
37	A method to estimate the initial length of equine tendons. <i>Cells Tissues Organs</i> , 1993 , 146, 120-2	2.1	6
36	Efficient trajectory optimization for curved running using a 3D musculoskeletal model with implicit dynamics. <i>Scientific Reports</i> , 2020 , 10, 17655	4.9	6
35	An optimized proportional-derivative controller for the human upper extremity with gravity. <i>Journal of Biomechanics</i> , 2015 , 48, 3692-700	2.9	5
34	A solution method for predictive simulations in a stochastic environment. <i>Journal of Biomechanics</i> , 2020 , 104, 109759	2.9	5
33	Semiactive virtual control of a hydraulic prosthetic knee 2016 ,		5
32	Computer-assisted gait analysis in equine orthopaedic practice: the case for inverse dynamic analysis. <i>Equine Veterinary Journal</i> , 1998 , 30, 362-3	2.4	5
31	Predictive simulation of gait in rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5444-7	0.9	4
30	An Anthropometrically Parameterized Assistive Lower Limb Exoskeleton. <i>Journal of Biomechanical Engineering</i> , 2021 , 143,	2.1	4
29	An approach to generate noncontact ACL-injury prone situations on a computer using kinematic data of non-injury situations and Monte Carlo simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 3-10	2.1	4
28	Compensation for inertial and gravity effects in a moving force platform. <i>Journal of Biomechanics</i> , 2018 , 75, 96-101	2.9	4

27	Comment on "A stochastic biomechanical model for risk and risk factors of non-contact anterior cruciate ligament injuries". <i>Journal of Biomechanics</i> , 2009 , 42, 1778-9; author reply 1780-2	2.9	3
26	Biomch-L: an electronic mail discussion forum for biomechanics and movement science. <i>Journal of Biomechanics</i> , 1992 , 25, 1367	2.9	3
25	Application of the Actor-Critic Architecture to Functional Electrical Stimulation Control of a Human Arm 2009 , 2009, 165-172		3
24	opty: Software for trajectory optimization and parameter identification using direct collocation. <i>Journal of Open Source Software</i> , 2018 , 3, 300	5.2	3
23	Neuromuscular Control and Valgus Loading of the Knee Predict ACL Injury Risk in Female Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, S287	1.2	3
22	ACL injuries: do we know the mechanisms?. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2007 , 37, A8-9	4.2	3
21	Eccentric training with a powered rowing machine. <i>Medicine in Novel Technology and Devices</i> , 2019 , 2, 100008	2.1	2
20	The role of the reciprocal apparatus in the hind limb of the horse investigated by a modified CODA-3 opto-electronic kinematic analysis system. <i>Equine Veterinary Journal</i> , 1990 , 22, 95-100	2.4	2
19	Comment on "Quadriceps protects the anterior cruciate ligament". <i>Journal of Orthopaedic Research</i> , 2002 , 20, 1133-4; author reply 1131-2	3.8	2
18	Neuromuscular Control and Valgus Loading of the Knee Predict ACL Injury Risk in Female Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, S287	1.2	2
17	Antagonistic Co-contraction Can Minimize Muscular Effort in Systems with Uncertainty		2
16	Creating a Reinforcement Learning Controller for Functional Electrical Stimulation of a Human Arm 2008 , 49326, 1-6		2
15	Metabolic cost calculations of gait using musculoskeletal energy models, a comparison study		2
14	Identification of the human postural control system through stochastic trajectory optimization. <i>Journal of Neuroscience Methods</i> , 2020 , 334, 108580	3	2
13	A model-based approach to predict neuromuscular control patterns that minimize ACL forces during jump landing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 24, 612-622	2.1	2
12	Nonlinear Tracking Control of an Antagonistic Muscle Pair Actuated System 2017 ,		1
11	Authors' reply regarding Effect of low pass filtering on joint moments from inverse dynamics: Implications for injury prevention <i>Journal of Biomechanics</i> , 2012 , 45, 2059-2060	2.9	1
10	Concurrent Simulations of Musculoskeletal Movements and Tissue Deformations 2007 , 5		1

9	Backstepping Control of Open-Chain Linkages Actuated by Antagonistic Hill Muscles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	1
8	Identification of Postural Controllers in Human Standing Balance. <i>Journal of Biomechanical Engineering</i> , 2021 , 143,	2.1	1
7	Early evaluation of a powered transfemoral prosthesis with force-modulated impedance control and energy regeneration.. <i>Medical Engineering and Physics</i> , 2022 , 100, 103744	2.4	1
6	Antagonistic co-contraction can minimize muscular effort in systems with uncertainty.. <i>PeerJ</i> , 2022 , 10, e13085	3.1	1
5	Upper body estimation of muscle forces, muscle states, and joint motion using an extended Kalman filter. <i>IET Control Theory and Applications</i> , 2020 , 14, 3204-3216	2.5	0
4	Predicting neuromuscular control patterns that minimize ACL forces during injury prone jump landing maneuvers in downhill skiing using a musculoskeletal simulation model.. <i>European Journal of Sport Science</i> , 2022 , 1-25	3.9	0
3	BIOMCH-L. <i>Human Movement Science</i> , 1992 , 11, 525-527	2.4	
2	BIOMCH-L. An electronic mail discussion list for biomechanics and kinesiology. <i>Journal of Biomechanical Engineering</i> , 1989 , 111, 93-4	2.1	
1	A progressive-individualized midstance gait perturbation protocol for reactive balance assessment in stroke survivors. <i>Journal of Biomechanics</i> , 2021 , 123, 110477	2.9	