Marcus G Pandy

List of Publications by Year
in descending order

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192	15,441	21215	21239
papers	citations	62	119
		h-index	g-index

196	196	196	9085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lower-limb muscle function in healthy young and older adults across a range of walking speeds. Gait and Posture, 2022, 94, 124-130.	0.6	4
2	Articular contact motion at the knee during daily activities. Journal of Orthopaedic Research, 2022, 40, 1756-1769.	1.2	5
3	Six-Degree-of-Freedom Tibiofemoral and Patellofemoral Joint Motion During Activities of Daily Living. Annals of Biomedical Engineering, 2021, 49, 1183-1198.	1.3	14
4	In Vivo Biomechanical Assessment of a Novel Handle-Based Wheelchair Drive. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1669-1678.	2.7	2
5	Moment arm of the knee-extensor mechanism measured in vivo across a range of daily activities. Journal of Biomechanics, 2021, 123, 110484.	0.9	4
6	How muscles maximize performance in accelerated sprinting. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 1882-1896.	1.3	34
7	Biomechanical Leg Muscle Function During Stair Ambulation in Men Receiving Androgen Deprivation Therapy. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1715-1722.	1.7	2
8	Immediate effects of foot orthoses on gait biomechanics in individuals with persistent patellofemoral pain. Gait and Posture, 2020, 77, 20-28.	0.6	10
9	Load Distribution at the Patellofemoral Joint During Walking. Annals of Biomedical Engineering, 2020, 48, 2821-2835.	1.3	16
10	A generic musculoskeletal model of the juvenile lower limb for biomechanical analyses of gait. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 24, 1-9.	0.9	10
11	The relationship between tibiofemoral geometry and musculoskeletal function during normal activity. Gait and Posture, 2020, 80, 374-382.	0.6	14
12	A Randomized Controlled Trial Comparing a Medial Stabilized Total Knee Prosthesis to a Cruciate Retaining and Posterior Stabilized Design: A Report of the Clinical and Functional Outcomes Following Total Knee Replacement. Journal of Arthroplasty, 2020, 35, 1583-1590.e2.	1.5	18
13	Comparison of posteriorâ€stabilized, cruciateâ€retaining, and medialâ€stabilized knee implant motion during gait. Journal of Orthopaedic Research, 2020, 38, 1753-1768.	1.2	42
14	Direct Validation of Human Knee-Joint Contact Mechanics Derived From Subject-Specific Finite-Element Models of the Tibiofemoral and Patellofemoral Joints. Journal of Biomechanical Engineering, 2020, 142, .	0.6	12
15	Direct Validation of Model-Predicted Muscle Forces in the Cat Hindlimb During Locomotion. Journal of Biomechanical Engineering, 2020, 142, .	0.6	10
16	Lower-limb joint mechanics during maximum acceleration sprinting. Journal of Experimental Biology, 2019, 222, .	0.8	18
17	Threeâ€dimensional motion of the kneeâ€joint complex during normal walking revealed by mobile biplane xâ€ray imaging. Journal of Orthopaedic Research, 2019, 37, 615-630.	1.2	63
18	Selective Loss of Levator Ani and Leg Muscle Volumes in Men Undergoing Androgen Deprivation Therapy. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 2229-2238.	1.8	6

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19	A novel training-free method for real-time prediction of femoral strain. Journal of Biomechanics, 2019, 86, 110-116.	0.9	14
20	Efficacy and efficiency of multivariate linear regression for rapid prediction of femoral strain fields during activity. Medical Engineering and Physics, 2019, 63, 88-92.	0.8	12
21	Hip abductor muscle volumes are smaller in individuals affected by patellofemoral joint osteoarthritis. Osteoarthritis and Cartilage, 2019, 27, 266-272.	0.6	13
22	Lowerâ€limb muscle function during gait in varus malâ€aligned osteoarthritis patients. Journal of Orthopaedic Research, 2018, 36, 2157-2166.	1.2	4
23	Measurement of 3D Dynamic Joint Motion Using Biplane Videoradiography. , 2018, , 101-115.		0
24	Predictive Simulations of Neuromuscular Coordination and Joint-Contact Loading in Human Gait. Annals of Biomedical Engineering, 2018, 46, 1216-1227.	1.3	54
25	Differences in in vivo muscle fascicle and tendinous tissue behavior between the ankle plantarflexors during running. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 1828-1836.	1.3	44
26	Femoroacetabular impingement and hip OsteoaRthritis Cohort (FORCe): protocol for a prospective study. Journal of Physiotherapy, 2018, 64, 55.	0.7	27
27	Pelvic and Hip Kinematics During Walking in People With Patellofemoral Joint Osteoarthritis Compared to Healthy Ageâ€Matched Controls. Arthritis Care and Research, 2018, 70, 309-314.	1.5	15
28	Athletes Rated as Poor Single-Leg Squat Performers Display Measurable Differences in Single-Leg Squat Biomechanics Compared With Good Performers. Journal of Sport Rehabilitation, 2018, 27, 546-553.	0.4	8
29	Hip- and patellofemoral-joint loading during gait are increased in children with idiopathic torsional deformities. Gait and Posture, 2018, 63, 228-235.	0.6	37
30	Is Running Better than Walking for Reducing Hip Joint Loads?. Medicine and Science in Sports and Exercise, 2018, 50, 2301-2310.	0.2	9
31	A Systematic Review of Clinical Functional Outcomes After Medial StabilizedÂVersus Non-Medial Stabilized Total Knee Joint Replacement. Frontiers in Surgery, 2018, 5, 25.	0.6	13
32	Mechanical Loading of the Femoral Neck in Human Locomotion. Journal of Bone and Mineral Research, 2018, 33, 1999-2006.	3.1	53
33	A blinded, three-arm randomised trial assessing joint function and measuring three-dimensional knee joint kinematics in individuals six months after a total knee joint replacement; comparing a medially stabilised design, to standard fixed bearing conventional designs â€“ posterior stabilising and cruciate retaining. International Journal of Clinical Trials, 2018, 5, 37.	0.0	3
34	Musculoskeletal loading in the symptomatic and asymptomatic knees of middleâ€aged osteoarthritis patients. Journal of Orthopaedic Research, 2017, 35, 321-330.	1.2	16
35	Standardization proposal of soft tissue artefact description for data sharing in human motion measurements. Journal of Biomechanics, 2017, 62, 5-13.	0.9	65
36	Accuracy of mobile biplane X-ray imaging in measuring 6-degree-of-freedom patellofemoral kinematics during overground gait. Journal of Biomechanics, 2017, 57, 152-156.	0.9	14

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37	Androgen deprivation causes selective deficits in the biomechanical leg muscle function of men during walking: a prospective caseâ€“control study. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 102-112.	2.9	34
38	Three-dimensional data-tracking dynamic optimization simulations of human locomotion generated by direct collocation. Journal of Biomechanics, 2017, 59, 1-8.	0.9	54
39	Effects of step length and step frequency on lower-limb muscle function in human gait. Journal of Biomechanics, 2017, 57, 1-7.	0.9	60
40	Dynamic simulation of knee-joint loading during gait using force-feedback control and surrogate contact modelling. Medical Engineering and Physics, 2017, 48, 196-205.	0.8	11
41	In vivo sixâ€degreeâ€ofâ€freedom kneeâ€joint kinematics in overground and treadmill walking following total knee arthroplasty. Journal of Orthopaedic Research, 2017, 35, 1634-1643.	1.2	34
42	Application of ultrasound imaging to subject-specific modelling of the human musculoskeletal system. Meccanica, 2017, 52, 665-676.	1.2	18
43	Human ankle plantar flexor muscleâ€“tendon mechanics and energetics during maximum acceleration sprinting. Journal of the Royal Society Interface, 2016, 13, 20160391.	1.5	36
44	Mobile Biplane X-Ray Imaging System for Measuring 3D Dynamic Joint Motion During Overground Gait. IEEE Transactions on Medical Imaging, 2016, 35, 326-336.	5.4	57
45	Mechanical properties of normal and osteoarthritic human articular cartilage. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 96-109.	1.5	83
46	Measuring Femoral Torsion InÂVivo Using Freehand 3-D Ultrasound Imaging. Ultrasound in Medicine and Biology, 2016, 42, 619-623.	0.7	13
47	Direct Methods for Predicting Movement Biomechanics Based Upon Optimal Control Theory with Implementation in OpenSim. Annals of Biomedical Engineering, 2016, 44, 2542-2557.	1.3	55
48	Measurement of 3D Dynamic Joint Motion Using Biplane Videoradiography. , 2016, , 1-15.		0
49	Development and validation of a computational musculoskeletal model of the cat hind limb. , 2015, , .		0
50	The dependence of knee joint stability on the cruciate and collateral ligaments. Movement and Sports Sciences - Science Et Motricite, 2015, , 37-54.	0.2	0
51	Muscle coordination of support, progression and balance during stair ambulation. Journal of Biomechanics, 2015, 48, 340-347.	0.9	51
52	A non-invasive, 3D, dynamic MRI method for measuring muscle moment arms in vivo: Demonstration in the human ankle joint and Achilles tendon. Medical Engineering and Physics, 2015, 37, 93-99.	0.8	39
53	Contribution of tibiofemoral joint contact to net loads at the knee in gait. Journal of Orthopaedic Research, 2015, 33, 1054-1060.	1.2	18
54	In vivo behavior of the human soleus muscle with increasing walking and running speeds. Journal of Applied Physiology, 2015, 118, 1266-1275.	1.2	147

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55	Exercise, education, manual-therapy and taping compared to education for patellofemoral osteoarthritis: a blinded, randomised clinical trial. Osteoarthritis and Cartilage, 2015, 23, 1457-1464.	0.6	56
56	Modulation of work and power by the human lower-limb joints with increasing steady-state locomotion speed. Journal of Experimental Biology, 2015, 218, 2472-81.	0.8	66
57	Sensitivity of femoral strain calculations to anatomical scaling errors in musculoskeletal models of movement. Journal of Biomechanics, 2015, 48, 3606-3615.	0.9	22
58	Are Knee Biomechanics Different in Those With and Without Patellofemoral Osteoarthritis After Anterior Cruciate Ligament Reconstruction?. Arthritis Care and Research, 2014, 66, 1566-1570.	1.5	31
59	Assessment of Transverse Isotropy in Clinical-Level CT Images of Trabecular Bone Using the Gradient Structure Tensor. Annals of Biomedical Engineering, 2014, 42, 950-959.	1.3	29
60	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
61	Subject-specific evaluation of patellofemoral joint biomechanics during functional activity. Medical Engineering and Physics, 2014, 36, 1122-1133.	0.8	27
62	Lower-Limb Muscular Strategies for Increasing Running Speed. Journal of Orthopaedic and Sports Physical Therapy, 2014, 44, 813-824.	1.7	96
63	Physical activity when young provides lifelong benefits to cortical bone size and strength in men. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5337-5342.	3.3	197
64	Quantitative evaluation of the major determinants of human gait. Journal of Biomechanics, 2014, 47, 1324-1331.	0.9	41
65	Response to â€œLetter to the Editor on â€˜Muscle function during gait is invariant to age when walking speed is controlledâ€™ by Lim YP, Lin Y-C, Pandy MG (Gait Posture 2013;38(2):253â€“9)â€. Gait and Posture, 2014, 39, 1001-1003.	0.6	0
66	Tendon elastic strain energy in the human ankle plantar-flexors and its role with increased running speed. Journal of Experimental Biology, 2014, 217, 3159-68.	0.8	105
67	Strain energy in the femoral neck during exercise. Journal of Biomechanics, 2014, 47, 1784-1791.	0.9	48
68	Muscle function during gait is invariant to age when walking speed is controlled. Gait and Posture, 2013, 38, 253-259.	0.6	47
69	Subject-specific knee joint geometry improves predictions of medial tibiofemoral contact forces. Journal of Biomechanics, 2013, 46, 2778-2786.	0.9	216
70	Three-dimensional geometry of the human biceps femoris long head measured in vivo using magnetic resonance imaging. Clinical Biomechanics, 2013, 28, 278-284.	0.5	7
71	Measurement of structural anisotropy in femoral trabecular bone using clinical-resolution CT images. Journal of Biomechanics, 2013, 46, 2659-2666.	0.9	34
72	Lower-Limb Muscle Function in Human Running. Mechanisms and Machine Science, 2013, , 323-327.	0.3	1

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73	Trunk muscle action compensates for reduced quadriceps force during walking after total knee arthroplasty. Gait and Posture, 2013, 38, 79-85.	0.6	47
74	Stretch and activation of the human biarticular hamstrings across a range of running speeds. European Journal of Applied Physiology, 2013, 113, 2813-2828.	1.2	52
75	Patellofemoral Joint Loading During Stair Ambulation in People With Patellofemoral Osteoarthritis. Arthritis and Rheumatism, 2013, 65, 2059-2069.	6.7	60
76	On the potential of lower limb muscles to accelerate the body's centre of mass during walking. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 1013-1021.	0.9	11
77	The heterogeneity in femoral neck structure and strength. Journal of Bone and Mineral Research, 2013, 28, 1022-1028.	3.1	21
78	MUSCLE COORDINATION OF HUMAN LOCOMOTION. , 2013, , .		0
79	Axial Rotation Moment Arms of the Shoulder Musculature After Reverse Total Shoulder Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2012, 94, 1886-1895.	1.4	74
80	Mechanics of the Human Hamstring Muscles during Sprinting. Medicine and Science in Sports and Exercise, 2012, 44, 647-658.	0.2	244
81	Muscular strategy shift in human running: dependence of running speed on hip and ankle muscle performance. Journal of Experimental Biology, 2012, 215, 1944-1956.	0.8	369
82	Forelimb muscle activity during equine locomotion. Journal of Experimental Biology, 2012, 215, 2980-2991.	0.8	45
83	Which Muscles Power the Human Running Stride?. , 2012, , .		0
84	Estimates of muscle function in human gait depend on how foot-ground contact is modelled. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 657-668.	0.9	55
85	Sensitivity of model predictions of muscle function to changes in moment arms and muscleâ€“tendon properties: A Monte-Carlo analysis. Journal of Biomechanics, 2012, 45, 1463-1471.	0.9	144
86	Potential of lower-limb muscles to accelerate the body during cerebral palsy gait. Gait and Posture, 2012, 36, 194-200.	0.6	25
87	Comparison of different methods for estimating muscle forces in human movement. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 103-112.	1.0	79
88	Muscular strategy shift in human running: dependence of running speed on hip and ankle muscle performance. Journal of Experimental Biology, 2012, 215, 2347-2347.	0.8	17
89	Altered hip muscle forces during gait in people with patellofemoral osteoarthritis. Osteoarthritis and Cartilage, 2012, 20, 1243-1249.	0.6	39
90	Muscles that do not cross the knee contribute to the knee adduction moment and tibiofemoral compartment loading during gait. Journal of Orthopaedic Research, 2012, 30, 1586-1595.	1.2	52

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91	Method for determining musculotendon parameters in subject-specific musculoskeletal models of children developed from MRI data. Multibody System Dynamics, 2012, 28, 143-156.	1.7	30
92	Quadriceps volumes are reduced in people with patellofemoral joint osteoarthritis. Osteoarthritis and Cartilage, 2012, 20, 863-868.	0.6	59
93	Grand challenge competition to predict in vivo knee loads. Journal of Orthopaedic Research, 2012, 30, 503-513.	1.2	449
94	Differences in the degree of bone tissue mineralization account for little of the differences in tissue elastic properties. Bone, 2011, 48, 1246-1251.	1.4	48
95	A massâ€“length scaling law for modeling muscle strength in the lower limb. Journal of Biomechanics, 2011, 44, 2782-2789.	0.9	42
96	Can a clinical test of hamstring strength identify football players at risk of hamstring strain?. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 38-41.	2.3	33
97	Effect of posterior tibial slope on knee biomechanics during functional activity. Journal of Orthopaedic Research, 2011, 29, 223-231.	1.2	202
98	Moment arms of the shoulder muscles during axial rotation. Journal of Orthopaedic Research, 2011, 29, 658-667.	1.2	65
99	Model predictions of increased knee joint loading in regions of thinner articular cartilage after patellar tendon adhesion. Journal of Orthopaedic Research, 2011, 29, 1168-1177.	1.2	14
100	Muscle and jointâ€contact loading at the glenohumeral joint after reverse total shoulder arthroplasty. Journal of Orthopaedic Research, 2011, 29, 1850-1858.	1.2	60
101	A computationally efficient method for assessing muscle function during human locomotion. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 436-449.	1.0	49
102	Moment arms of the human neck muscles in flexion, bending and rotation. Journal of Biomechanics, 2011, 44, 475-486.	0.9	30
103	Shoulder muscle function depends on elbow joint position: An illustration of dynamic coupling in the upper limb. Journal of Biomechanics, 2011, 44, 1859-1868.	0.9	36
104	Accuracy of generic musculoskeletal models in predicting the functional roles of muscles in human gait. Journal of Biomechanics, 2011, 44, 2096-2105.	0.9	92
105	Effect of Running Speed on Lower Limb Joint Kinetics. Medicine and Science in Sports and Exercise, 2011, 43, 1260-1271.	0.2	261
106	Simultaneous prediction of muscle and contact forces in the knee during gait. Journal of Biomechanics, 2010, 43, 945-952.	0.9	137
107	Non-invasive assessment of soft-tissue artifact and its effect on knee joint kinematics during functional activity. Journal of Biomechanics, 2010, 43, 1292-1301.	0.9	185
108	Contributions of individual muscles to hip joint contact force in normal walking. Journal of Biomechanics, 2010, 43, 1618-1622.	0.9	126

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109	Muscle coordination of mediolateral balance in normal walking. Journal of Biomechanics, 2010, 43, 2055-2064.	0.9	174
110	Response to comment on â€œContributions of individual muscles to hip joint contact force in normal walking [J. Biomech. 43 (2010) 1618â€“1622]â€. Journal of Biomechanics, 2010, 43, 3070-3071.	0.9	1
111	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
112	Muscle and Joint Function in Human Locomotion. Annual Review of Biomedical Engineering, 2010, 12, 401-433.	5.7	268
113	Moment Arms of the Shoulder Musculature After Reverse Total Shoulder Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1221-1230.	1.4	146
114	Hamstring muscle forces prior to and immediately following an acute sprinting-related muscle strain injury. Gait and Posture, 2010, 32, 136-140.	0.6	72
115	Mechanical loading of the distal end of the third metacarpal bone in horses during walking and trotting. American Journal of Veterinary Research, 2010, 71, 508-514.	0.3	21
116	Evaluation of predicted kneeâ€joint muscle forces during gait using an instrumented knee implant. Journal of Orthopaedic Research, 2009, 27, 1326-1331.	1.2	156
117	Lines of action and stabilizing potential of the shoulder musculature. Journal of Anatomy, 2009, 215, 184-197.	0.9	96
118	Biomechanical response to hamstring muscle strain injury. Gait and Posture, 2009, 29, 332-338.	0.6	172
119	Simultaneous Prediction of Muscle and Contact Forces in the Knee During Gait. , 2009, , .		2
120	Muscle and Contact Contributions to Inverse Dynamic Knee Loads During Gait. , 2009, , .		1
121	Quantifying the Spatial Variation of Lower-Limb Soft Tissue Artefact During Functional Activity Using MR Imaging and X-Ray Fluoroscopy. , 2009, , .		0
122	Using MR Imaging and X-Ray Fluoroscopy to Quantify the Effects of Soft-Tissue Artifact on Measurement of Knee-Joint Kinematics. , 2009, , .		0
123	Subject-Specific Evaluation of Patellofemoral Joint Function During Stair Ascent. , 2009, , .		0
124	Rupture of the conjoint tendon at the proximal musculotendinous junction of the biceps femoris long head: a case report. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 797-802.	2.3	10
125	Moment arms of the muscles crossing the anatomical shoulder. Journal of Anatomy, 2008, 213, 383-390.	0.9	149
126	Targeted physiotherapy for patellofemoral joint osteoarthritis: A protocol for a randomised, single-blind controlled trial. BMC Musculoskeletal Disorders, 2008, 9, 122.	0.8	39

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127	The effect of gait modification on the external knee adduction moment is reference frame dependent. Clinical Biomechanics, 2008, 23, 601-608.	0.5	59
128	Effects of foot orthoses and valgus bracing on the knee adduction moment and medial joint load during gait. Clinical Biomechanics, 2008, 23, 814-821.	0.5	80
129	Contributions of the Individual Muscles of the Shoulder to Glenohumeral Joint Stability During Abduction. Journal of Biomechanical Engineering, 2008, 130, 021024.	0.6	105
130	Evaluation of Predicted Knee Joint Muscle Forces During Gait Using an Instrumented Knee Implant. , 2008, , .		0
131	Influence of Muscle-Tendon Wrapping on Calculations of Joint Reaction Forces in the Equine Distal Forelimb. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-9.	3.0	32
132	Calculation of Joint Reaction Forces in the Equine Distal Forelimb during Walking and Trotting. , 2007, , .		2
133	CONTRIBUTIONS OF INDIVIDUAL MUSCLES TO MEDIOLATERAL STABILITY IN NORMAL WALKING. Journal of Biomechanics, 2007, 40, S406.	0.9	0
134	Sensitivity of muscle force estimates to variations in muscleâ€“tendon properties. Human Movement Science, 2007, 26, 306-319.	0.6	123
135	A neuromusculoskeletal tracking method for estimating individual muscle forces in human movement. Journal of Biomechanics, 2007, 40, 356-366.	0.9	97
136	Determination of mechanical loading components of the equine metacarpus from measurements of strain during walking. Equine Veterinary Journal, 2006, 38, 440-444.	0.9	9
137	Integrating modelling and experiments to assess dynamic musculoskeletal function in humans. Experimental Physiology, 2006, 91, 371-382.	0.9	56
138	Muscles that support the body also modulate forward progression during walking. Journal of Biomechanics, 2006, 39, 2623-2630.	0.9	281
139	Contributions of muscles, ligaments, and the ground-reaction force to tibiofemoral joint loading during normal gait. Journal of Orthopaedic Research, 2006, 24, 1983-1990.	1.2	279
140	Effect of muscle wrapping on model estimates of neck muscle strength. Computer Methods in Biomechanics and Biomedical Engineering, 2006, 9, 343-352.	0.9	17
141	Computational Modelling in Shoulder Biometrics. Computational Intelligence and Its Applications Series, 2006, , 348-384.	0.2	0
142	Effect of Muscle Compensation on Knee Instability during ACL-Deficient Gait. Medicine and Science in Sports and Exercise, 2005, 37, 642-648.	0.2	63
143	Muscle, Ligament, and Joint-Contact Forces at the Knee during Walking. Medicine and Science in Sports and Exercise, 2005, 37, 1948-1956.	0.2	208
144	Muscular contributions to hip and knee extension during the single limb stance phase of normal gait: a framework for investigating the causes of crouch gait. Journal of Biomechanics, 2005, 38, 2181-2189.	0.9	176

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145	Moment Arms Of Shoulder Muscles During Movement. Medicine and Science in Sports and Exercise, 2005, 37, S278.	0.2	1
146	Assessing Adaptive Expertise in Undergraduate Biomechanics. Journal of Engineering Education, 2004, 93, 211-222.	1.9	56
147	A nonlinear tracking method of computing net joint torques for human movement. , 2004, 2004, 4633-6.		3
148	A phenomenological model for estimating metabolic energy consumption in muscle contraction. Journal of Biomechanics, 2004, 37, 81-88.	0.9	151
149	Comparison of shear forces and ligament loading in the healthy and ACL-deficient knee during gait. Journal of Biomechanics, 2004, 37, 313-319.	0.9	98
150	Moment arm of the patellar tendon in the human knee. Journal of Biomechanics, 2004, 37, 785-788.	0.9	173
151	Contributions of muscle forces and toe-off kinematics to peak knee flexion during the swing phase of normal gait: an induced position analysis. Journal of Biomechanics, 2004, 37, 731-737.	0.9	105
152	Pattern of anterior cruciate ligament force in normal walking. Journal of Biomechanics, 2004, 37, 797-805.	0.9	235
153	Muscles that influence knee flexion velocity in double support: implications for stiff-knee gait. Journal of Biomechanics, 2004, 37, 1189-1196.	0.9	149
154	Model Prediction of Anterior Cruciate Ligament Force during Drop-Landings. Medicine and Science in Sports and Exercise, 2004, 36, 1949-1958.	0.2	175
155	Variation of neck muscle strength along the human cervical spine. Stapp Car Crash Journal, 2004, 48, 397-417.	1.1	19
156	Estimation of Musculotendon Properties in the Human Upper Limb. Annals of Biomedical Engineering, 2003, 31, 207-220.	1.3	172
157	Architectural properties of distal forelimb muscles in horses,Equus caballus. Journal of Morphology, 2003, 258, 106-114.	0.6	52
158	Force- and moment-generating capacities of muscles in the distal forelimb of the horse. Journal of Anatomy, 2003, 203, 101-113.	0.9	52
159	Individual muscle contributions to support in normal walking. Gait and Posture, 2003, 17, 159-169.	0.6	446
160	Simple and complex models for studying muscle function in walking. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 1501-1509.	1.8	46
161	Moment arms about the carpal and metacarpophalangeal joints for flexor and extensor muscles in equine forelimbs. American Journal of Veterinary Research, 2003, 64, 351-357.	0.3	47
162	Multi-joint coordination of vertical arm movement. Applied Bionics and Biomechanics, 2003, 1, 45-56.	0.5	3

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163	Multi-Joint Coordination of Vertical Arm Movement. Applied Bionics and Biomechanics, 2003, 1, 45-56.	0.5	5
164	Forward-dynamics Simulation of Anterior Cruciate Ligament Forces Developed During Isokinetic Dynamometry. Computer Methods in Biomechanics and Biomedical Engineering, 2002, 5, 33-43.	0.9	22
165	A Dynamic Model of the Knee and Lower Limb for Simulating Rising Movements. Computer Methods in Biomechanics and Biomedical Engineering, 2002, 5, 149-159.	0.9	64
166	Effect of hamstrings muscle action on stability of the ACL-deficient knee in isokinetic extension exercise. Clinical Biomechanics, 2002, 17, 705-712.	0.5	49
167	Musculoskeletal Model of the Upper Limb Based on the Visible Human Male Dataset. Computer Methods in Biomechanics and Biomedical Engineering, 2001, 4, 93-126.	0.9	201
168	Static and dynamic optimization solutions for gait are practically equivalent. Journal of Biomechanics, 2001, 34, 153-161.	0.9	650
169	Computer Modeling and Simulation of Human Movement. Annual Review of Biomedical Engineering, 2001, 3, 245-273.	5.7	381
170	Dynamic Optimization of Human Walking. Journal of Biomechanical Engineering, 2001, 123, 381-390.	0.6	858
171	The Obstacle-Set Method for Representing Muscle Paths in Musculoskeletal Models. Computer Methods in Biomechanics and Biomedical Engineering, 2000, 3, 1-30.	0.9	150
172	Dynamic Simulation of Human Movement Using Large-Scale Models of the Body. Phonetica, 2000, 57, 219-228.	0.3	22
173	A Kinematic Model of the Upper Limb Based on the Visible Human Project (VHP) Image Dataset. Computer Methods in Biomechanics and Biomedical Engineering, 1999, 2, 107-124.	0.9	77
174	A Dynamic Optimization Solution for Vertical Jumping in Three Dimensions. Computer Methods in Biomechanics and Biomedical Engineering, 1999, 2, 201-231.	0.9	447
175	4 Moment A r m of a Muscle Force. Exercise and Sport Sciences Reviews, 1999, 27, 79???118.	1.6	69
176	An optimal control model for determining articular contact forces at the human knee during rising from a static squat position. Journal of Mechanical Science and Technology, 1998, 12, 847.	0.4	3
177	Theoretical analysis of ligament and extensor-mechanism function in the ACL-deficient knee. Clinical Biomechanics, 1998, 13, 98-111.	0.5	18
178	Determinants of cruciate-ligament loading during rehabilitation exercise. Clinical Biomechanics, 1998, 13, 403-413.	0.5	105
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