

# Adamantios Arampatzis

## List of Publications by Year in descending order

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196  
papers

8,082  
citations

41344  
49  
h-index

69250  
77  
g-index

214  
all docs

214  
docs citations

214  
times ranked

5137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring Kinematic Response to Perturbed Locomotion in Young Adults. <i>Sensors</i> , 2022, 22, 672.	3.8	3
2	Differences in muscle synergies among recovery responses limit inter-task generalisation of stability performance. <i>Human Movement Science</i> , 2022, 82, 102937.	1.4	3
3	Sex-specific tuning of modular muscle activation patterns for locomotion in young and older adults. <i>PLoS ONE</i> , 2022, 17, e0269417.	2.5	9
4	Sex influence on muscle synergies in a ballistic force-velocity test during the delayed recovery phase after a graded endurance run. <i>Heliyon</i> , 2022, 8, e09573.	3.2	3
5	Prediction of Balance Perturbations and Falls on Stairs in Older People Using a Biomechanical Profiling Approach: A 12-Month Longitudinal Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 638-646.	3.6	8
6	Perturbation-based exercise for prevention of low-back pain in adolescent athletes. <i>Translational Sports Medicine</i> , 2021, 4, 128-137.	1.1	5
7	Enthalpy efficiency of the soleus muscle contributes to improvements in running economy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202784.	2.6	25
8	Which Functional Outcomes Can be Measured in Low Back Pain Trials and Therapies? A Prospective 2-Year Factor-, Cluster-, and Reliability-Multicenter Analysis on 42 Variables in 1049 Individuals. <i>Spine</i> , 2021, Publish Ahead of Print, 1495-1508.	2.0	3
9	Standing on unstable surface challenges postural control of tracking tasks and modulates neuromuscular adjustments specific to task complexity. <i>Scientific Reports</i> , 2021, 11, 6122.	3.3	15
10	A Functional High-Load Exercise Intervention for the Patellar Tendon Reduces Tendon Pain Prevalence During a Competitive Season in Adolescent Handball Players. <i>Frontiers in Physiology</i> , 2021, 12, 626225.	2.8	11
11	Quantifying mechanical loading and elastic strain energy of the human Achilles tendon during walking and running. <i>Scientific Reports</i> , 2021, 11, 5830.	3.3	36
12	Editorial: Muscle and Tendon Plasticity and Interaction in Physiological and Pathological Conditions. <i>Frontiers in Physiology</i> , 2021, 12, 678801.	2.8	1
13	Prevention of strain-induced impairments of patellar tendon micromorphology in adolescent athletes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1708-1718.	2.9	7
14	Development of Muscle-Tendon Adaptation in Preadolescent Gymnasts and Untrained Peers: A 12-Month Longitudinal Study. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2565-2576.	0.4	5
15	Reliable and effective novel home-based training set-up for application of an evidence-based high-loading stimulus to improve triceps surae function. <i>Journal of Sports Sciences</i> , 2021, 39, 2786-2795.	2.0	7
16	Stability recovery performance in adults over a wide age range: A multicentre reliability analysis using different lean-and-release test protocols. <i>Journal of Biomechanics</i> , 2021, 125, 110584.	2.1	2
17	Muscle-specific economy of force generation and efficiency of work production during human running. <i>ELife</i> , 2021, 10, .	6.0	21
18	Postural Balance Ability and the Effect of Visual Restriction on Older Dancers and Non-Dancers. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 707567.	1.8	2

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19	Vastus lateralis muscle volume prediction in early-adolescent boys. <i>Journal of Biomechanics</i> , 2021, 128, 110735.	2.1	1
20	Runners Employ Different Strategies to Cope With Increased Speeds Based on Their Initial Strike Patterns. <i>Frontiers in Physiology</i> , 2021, 12, 686259.	2.8	3
21	A Simplified Method for Considering Achilles Tendon Curvature in the Assessment of Tendon Elongation. <i>Sensors</i> , 2021, 21, 7387.	3.8	1
22	Proactive Modulation in the Spatiotemporal Structure of Muscle Synergies Minimizes Reactive Responses in Perturbed Landings. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 761766.	4.1	3
23	Neuromotor Dynamics of Human Locomotion in Challenging Settings. <i>IScience</i> , 2020, 23, 100796.	4.1	52
24	Muscle and Tendon Morphology in Early-Adolescent Athletes and Untrained Peers. <i>Frontiers in Physiology</i> , 2020, 11, 1029.	2.8	6
25	Modulation of physiological cross-sectional area and fascicle length of vastus lateralis muscle in response to eccentric exercise. <i>Journal of Biomechanics</i> , 2020, 111, 110016.	2.1	7
26	Impact of Altered Gastrocnemius Morphometrics and Fascicle Behavior on Walking Patterns in Children With Spastic Cerebral Palsy. <i>Frontiers in Physiology</i> , 2020, 11, 518134.	2.8	4
27	Muscle Fascicles Exhibit Limited Passive Elongation Throughout the Rehabilitation of Achilles Tendon Rupture After Percutaneous Repair. <i>Frontiers in Physiology</i> , 2020, 11, 746.	2.8	4
28	Maturation-, age-, and sex-specific anthropometric and physical fitness percentiles of German elite young athletes. <i>PLoS ONE</i> , 2020, 15, e0237423.	2.5	28
29	Motor Control Stabilisation Exercise for Patients with Non-Specific Low Back Pain: A Prospective Meta-Analysis with Multilevel Meta-Regressions on Intervention Effects. <i>Journal of Clinical Medicine</i> , 2020, 9, 3058.	2.4	20
30	Effects of long-term athletic training on muscle morphology and tendon stiffness in preadolescence: association with jump performance. <i>European Journal of Applied Physiology</i> , 2020, 120, 2715-2727.	2.5	9
31	Muscle Activation Patterns Are More Constrained and Regular in Treadmill Than in Overground Human Locomotion. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 581619.	4.1	32
32	Lower complexity of motor primitives ensures robust control of high-speed human locomotion. <i>Heliyon</i> , 2020, 6, e05377.	3.2	31
33	Individualized Muscle-Tendon Assessment and Training. <i>Frontiers in Physiology</i> , 2020, 11, 723.	2.8	32
34	Exercise of Dynamic Stability in the Presence of Perturbations Elicit Fast Improvements of Simulated Fall Recovery and Strength in Older Adults: A Randomized Controlled Trial. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 52.	1.8	8
35	Muscle Synergies in Parkinson's Disease. <i>Sensors</i> , 2020, 20, 3209.	3.8	18
36	<p>&lt;p>Stress and Self-Efficacy as Long-Term Predictors for Chronic Low Back Pain: A Prospective Longitudinal Study&lt;p>&lt;p>, <i>Journal of Pain Research</i> , 2020, Volume 13, 613-621.	2.0	28

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37	Fuzziness of muscle synergies in patients with multiple sclerosis indicates increased robustness of motor control during walking. <i>Scientific Reports</i> , 2020, 10, 7249.	3.3	25
38	Neuromechanics of Dynamic Balance Tasks in the Presence of Perturbations. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 560630.	2.0	5
39	Muscle Synergies in Patients With Multiple Sclerosis Reveal Demand-Specific Alterations in the Modular Organization of Locomotion. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 593365.	2.0	4
40	Patellar Tendon Strain Associates to Tendon Structural Abnormalities in Adolescent Athletes. <i>Frontiers in Physiology</i> , 2019, 10, 963.	2.8	19
41	Effects of Lengthening Velocity During Eccentric Training on Vastus Lateralis Muscle Hypertrophy. <i>Frontiers in Physiology</i> , 2019, 10, 957.	2.8	4
42	Vastus Lateralis Architecture Changes During Pregnancy – A Longitudinal Study. <i>Frontiers in Physiology</i> , 2019, 10, 1163.	2.8	5
43	Neuromuscular organisation and robustness of postural control in the presence of perturbations. <i>Scientific Reports</i> , 2019, 9, 12273.	3.3	27
44	Morphological and Mechanical Properties of the Quadriceps Femoris Muscle-Tendon Unit From Adolescence to Adulthood: Effects of Age and Athletic Training. <i>Frontiers in Physiology</i> , 2019, 10, 1082.	2.8	25
45	Center of Pressure Feedback Modulates the Entrainment of Voluntary Sway to the Motion of a Visual Target. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3952.	2.5	9
46	Trunk muscle strength and lumbo-pelvic kinematics in adolescent athletes: Effects of age and sex. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1691-1698.	2.9	12
47	Triceps Surae Muscle-Tendon Unit Properties in Preadolescent Children: A Comparison of Artistic Gymnastic Athletes and Non-athletes. <i>Frontiers in Physiology</i> , 2019, 10, 615.	2.8	13
48	Patellar Tendon Stiffness Is Not Reduced During Pregnancy. <i>Frontiers in Physiology</i> , 2019, 10, 334.	2.8	8
49	Development of a Non-invasive Methodology for the Assessment of Muscle Fibre Composition. <i>Frontiers in Physiology</i> , 2019, 10, 174.	2.8	3
50	Modular organization of murine locomotor pattern in the presence and absence of sensory feedback from muscle spindles. <i>Journal of Physiology</i> , 2019, 597, 3147-3165.	2.9	60
51	The force-length-velocity potential of the human soleus muscle is related to the energetic cost of running. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192560.	2.6	70
52	Simplified Triceps Surae Muscle Volume Assessment in Older Adults. <i>Frontiers in Physiology</i> , 2019, 10, 1299.	2.8	4
53	Swaying slower reduces the destabilizing effects of a compliant surface on voluntary sway dynamics. <i>PLoS ONE</i> , 2019, 14, e0226263.	2.5	11
54	Muscle volume reconstruction from several short magnetic resonance imaging sequences. <i>Journal of Biomechanics</i> , 2019, 84, 269-273.	2.1	5

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55	Functional adaptation of connective tissue by training. Deutsche Zeitschrift Fur Sportmedizin, 2019, 2019, 105-110.	0.5	11
56	Operating length and velocity of human vastus lateralis muscle during walking and running. Scientific Reports, 2018, 8, 5066.	3.3	69
57	Challenging human locomotion: stability and modular organisation in unsteady conditions. Scientific Reports, 2018, 8, 2740.	3.3	113
58	Effects of tracking landmarks and tibial point of resistive force application on the assessment of patellar tendon mechanical properties in vivo. Journal of Biomechanics, 2018, 71, 176-182.	2.1	5
59	Short-term functional assessment of gait, plantarflexor strength, and tendon properties after Achilles tendon rupture. Gait and Posture, 2018, 62, 179-185.	1.4	16
60	Reliability of a semi-automated algorithm for the vastus lateralis muscle architecture measurement based on ultrasound images. European Journal of Applied Physiology, 2018, 118, 291-301.	2.5	36
61	Exercises of dynamic stability under unstable conditions increase muscle strength and balance ability in the elderly. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 961-971.	2.9	43
62	Modular Control of Human Movement During Running: An Open Access Data Set. Frontiers in Physiology, 2018, 9, 1509.	2.8	37
63	Follow-up efficacy of physical exercise interventions on fall incidence and fall risk in healthy older adults: a systematic review and meta-analysis. Sports Medicine - Open, 2018, 4, 56.	3.1	42
64	The Maximum Lyapunov Exponent During Walking and Running: Reliability Assessment of Different Marker-Sets. Frontiers in Physiology, 2018, 9, 1101.	2.8	25
65	Editorial: Neuromuscular Training and Adaptations in Youth Athletes. Frontiers in Physiology, 2018, 9, 1264.	2.8	14
66	The effect of a maternity support belt on static stability and posture in pregnant and non-pregnant women. Journal of Biomechanics, 2018, 75, 123-128.	2.1	11
67	Effects of backward-downhill treadmill training versus manual static plantarflexor stretching on muscle-joint pathology and function in children with spastic Cerebral Palsy. Gait and Posture, 2018, 65, 121-128.	1.4	33
68	Muscle Strength and Neuromuscular Control in Low-Back Pain: Elite Athletes Versus General Population. Frontiers in Neuroscience, 2018, 12, 436.	2.8	37
69	Short- and long-term effects of altered point of ground reaction force application on human running energetics. Journal of Experimental Biology, 2018, 221, .	1.7	22
70	Medicine in Spine Exercise [MiSpEx] â€“ a national research network to evaluate back pain. Deutsche Zeitschrift Fur Sportmedizin, 2018, 2018, 229-235.	0.5	9
71	Perturbations in prevention and therapy of low back pain: A new approach. Deutsche Zeitschrift Fur Sportmedizin, 2018, 2018, 247-254.	0.5	1
72	Modular control during incline and level walking in humans. Journal of Experimental Biology, 2017, 220, 807-813.	1.7	19

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73	OVERLOAD of joints and its role in osteoarthritis. Zeitschrift Fur Rheumatologie, 2017, 76, 1-4.	1.0	1
74	Muscle and tendon adaptation in adolescent athletes: A longitudinal study. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 75-82.	2.9	50
75	Transition from shod to barefoot alters dynamic stability during running. Gait and Posture, 2017, 56, 31-36.	1.4	35
76	Operating length and velocity of human M. vastus lateralis fascicles during vertical jumping. Royal Society Open Science, 2017, 4, 170185.	2.4	45
77	Acute Effects of Stretching on Leg and Vertical Stiffness During Treadmill Running. Journal of Strength and Conditioning Research, 2017, 31, 3417-3424.	2.1	11
78	Development of a risk stratification and prevention index for stratified care in chronic low back pain. Focus: yellow flags (MiSpEx network). Pain Reports, 2017, 2, e623.	2.7	25
79	A random-perturbation therapy in chronic non-specific low-back pain patients: a randomised controlled trial. European Journal of Applied Physiology, 2017, 117, 2547-2560.	2.5	21
80	Muscle architecture and torque production in stroke survivors: an observational study. Topics in Stroke Rehabilitation, 2017, 24, 206-213.	1.9	34
81	On the Methodological Implications of Extracting Muscle Synergies from Human Locomotion. International Journal of Neural Systems, 2017, 27, 1750007.	5.2	83
82	Muscle and Tendon Adaptation in Adolescence: Elite Volleyball Athletes Compared to Untrained Boys and Girls. Frontiers in Physiology, 2017, 8, 417.	2.8	34
83	The Influence of Footwear on the Modular Organization of Running. Frontiers in Physiology, 2017, 8, 958.	2.8	29
84	Imbalances in the Development of Muscle and Tendon as Risk Factor for Tendinopathies in Youth Athletes: A Review of Current Evidence and Concepts of Prevention. Frontiers in Physiology, 2017, 8, 987.	2.8	57
85	Diagnosis of psychosocial risk factors in prevention of low back pain in athletes (MiSpEx). BMJ Open Sport and Exercise Medicine, 2017, 3, e000295.	2.9	17
86	Soleus H-reflex modulation during balance recovery after forward falling. Muscle and Nerve, 2016, 54, 952-958.	2.2	2
87	Contractile behavior of the medial gastrocnemius in children with bilateral spastic cerebral palsy during forward, uphill and backward-downhill gait. Clinical Biomechanics, 2016, 36, 32-39.	1.2	28
88	Physiological Adaptations following Resistance Training in Youth Athletes—A Narrative Review. Pediatric Exercise Science, 2016, 28, 501-520.	1.0	60
89	Insufficient accuracy of the ultrasound-based determination of Achilles tendon cross-sectional area. Journal of Biomechanics, 2016, 49, 2932-2937.	2.1	44
90	Athletic training affects the uniformity of muscle and tendon adaptation during adolescence. Journal of Applied Physiology, 2016, 121, 893-899.	2.5	40

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91	Reactive but not predictive locomotor adaptability is impaired in young Parkinson's disease patients. <i>Gait and Posture</i> , 2016, 48, 177-182.	1.4	13
92	A Pressure Plate-Based Method for the Automatic Assessment of Foot Strike Patterns During Running. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1646-1655.	2.5	39
93	Increased unilateral tendon stiffness and its effect on gait 2â€“6 years after <scp>A</scp>chilles tendon rupture. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, 860-867.	2.9	49
94	Effects of ankleâ€“foot braces on medial gastrocnemius morphometrics and gait in children with cerebral palsy. <i>Journal of Children's Orthopaedics</i> , 2015, 9, 209-219.	1.1	38
95	Reliability and Limits of Agreement of the Supraspinatus Muscle Anatomical Cross-Sectional Area Assessment by Ultrasonography. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1821-1826.	1.5	2
96	Human tendon adaptation in response to mechanical loading: a systematic review and meta-analysis of exercise intervention studies on healthy adults. <i>Sports Medicine - Open</i> , 2015, 1, 7.	3.1	270
97	Recovery performance and factors that classify young fallers and non-fallers in Parkinsonâ€™s disease. <i>Human Movement Science</i> , 2015, 41, 136-146.	1.4	13
98	Predictive and Reactive Locomotor Adaptability in Healthy Elderly: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2015, 45, 1759-1777.	6.5	64
99	Muscle shape consistency and muscle volume prediction of thigh muscles. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, e208-13.	2.9	35
100	Asymmetry of <scp>A</scp>chilles tendon mechanical and morphological properties between both legs. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, e124-32.	2.9	54
101	Human achilles tendon plasticity in response to cyclic strain: effect of rate and duration. <i>Journal of Experimental Biology</i> , 2014, 217, 4010-7.	1.7	92
102	Validation of a simplified method for muscle volume assessment. <i>Journal of Biomechanics</i> , 2014, 47, 1348-1352.	2.1	22
103	Effects of load magnitude, muscle length and velocity during eccentric chronic loading on the longitudinal growth of vastus lateralis muscle. <i>Journal of Experimental Biology</i> , 2014, 217, 2726-33.	1.7	56
104	Evidence of imbalanced adaptation between muscle and tendon in adolescent athletes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014, 24, e283-9.	2.9	37
105	Lower safety factor for old adults during walking at preferred velocity. <i>Age</i> , 2014, 36, 9636.	3.0	13
106	Exercise of mechanisms of dynamic stability improves the stability state after an unexpected gait perturbation in elderly. <i>Age</i> , 2013, 35, 1905-1915.	3.0	26
107	Ultrasound does not provide reliable results for the measurement of the patellar tendon cross sectional area. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1278-1282.	1.7	38
108	Young and old adults prioritize dynamic stability control following gait perturbations when performing a concurrent cognitive task. <i>Gait and Posture</i> , 2013, 37, 373-377.	1.4	35



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109	Exercise-induced changes in triceps surae tendon stiffness and muscle strength affect running economy in humans. <i>European Journal of Applied Physiology</i> , 2013, 113, 1605-1615.	2.5	125
110	Neuromuscular electrical stimulation (NMES) reduces structural and functional losses of quadriceps muscle and improves health status in patients with knee osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2013, 31, 511-516.	2.3	63
111	Diffusion Tensor Imaging of Skeletal Muscle - Correlation of Fractional Anisotropy to Muscle Power. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2013, 185, 857-861.	1.3	19
112	Central Factors Explain Muscle Weakness in Young Fallers With Parkinson's Disease. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 753-759.	2.9	25
113	Fiber type characterization in skeletal muscle by diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2013, 26, 1220-1224.	2.8	52
114	Commentaries on Viewpoint: On the hysteresis in the human Achilles tendon. <i>Journal of Applied Physiology</i> , 2013, 114, 518-520.	2.5	15
115	Age-Related Modifications to the Magnitude and Periodicity of Neuromuscular Noise. <i>PLoS ONE</i> , 2013, 8, e82791.	2.5	4
116	Influence of pole plant time on the performance of a special jump and plant exercise in the pole vault. <i>Journal of Biomechanics</i> , 2012, 45, 1625-1631.	2.1	12
117	Cognitive demand and predictive adaptational responses in dynamic stability control. <i>Journal of Biomechanics</i> , 2012, 45, 2330-2336.	2.1	22
118	A wide number of trials is required to achieve acceptable reliability for measurement patellar tendon elongation in vivo. <i>Gait and Posture</i> , 2012, 35, 334-338.	1.4	35
119	Extreme Levels of Noise Constitute a Key Neuromuscular Deficit in the Elderly. <i>PLoS ONE</i> , 2012, 7, e48449.	2.5	28
120	Effects of reduced plantar cutaneous afferent feedback on locomotor adjustments in dynamic stability during perturbed walking. <i>Journal of Biomechanics</i> , 2011, 44, 2194-2200.	2.1	40
121	Effects of submaximal fatiguing contractions on the components of dynamic stability control after forward falls. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 270-275.	1.7	8
122	Mini-trampoline exercise related to mechanisms of dynamic stability improves the ability to regain balance in elderly. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 512-518.	1.7	63
123	Reproducibility of gastrocnemius medialis muscle architecture during treadmill running. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 1081-1086.	1.7	35
124	Exercise of mechanisms for dynamic stability control increases stability performance in the elderly. <i>Journal of Biomechanics</i> , 2011, 44, 52-58.	2.1	54
125	Altered control strategy between leading and trailing leg increases knee adduction moment in the elderly while descending stairs. <i>Journal of Biomechanics</i> , 2011, 44, 706-711.	2.1	18
126	Adaptive feedback potential in dynamic stability during disturbed walking in the elderly. <i>Journal of Biomechanics</i> , 2011, 44, 1921-1926.	2.1	63



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127	Why Do Older Sprinters Reach the Finish Line Later?. Exercise and Sport Sciences Reviews, 2011, 39, 18-22.	3.0	33
128	Effect of fatigue on force fluctuations in knee extensors in young adults. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2783-2798.	3.4	25
129	Footwear affects the gearing at the ankle and knee joints during running. Journal of Biomechanics, 2010, 43, 2120-2125.	2.1	82
130	Adaptational responses in dynamic stability during disturbed walking in the elderly. Journal of Biomechanics, 2010, 43, 2362-2368.	2.1	85
131	Plasticity of human Achilles tendon mechanical and morphological properties in response to cyclic strain. Journal of Biomechanics, 2010, 43, 3073-3079.	2.1	179
132	Reproducibility of fascicle length and pennation angle of gastrocnemius medialis in human gait in vivo. Gait and Posture, 2010, 31, 73-77.	1.4	63
133	Repeatability and reproducibility of OSSCA, a functional approach for assessing the kinematics of the lower limb. Gait and Posture, 2010, 32, 231-236.	1.4	72
134	Evidence of Mechanical Load Redistribution at the Knee Joint in the Elderly when Ascending Stairs and Ramps. Annals of Biomedical Engineering, 2009, 37, 467-476.	2.5	30
135	In vivo moment generation and architecture of the human plantar flexors after different shortening“stretch cycles velocities. Journal of Electromyography and Kinesiology, 2009, 19, 322-330.	1.7	4
136	Effects of submaximal and maximal long-lasting contractions on the compliance of vastus lateralis tendon and aponeurosis in vivo. Journal of Electromyography and Kinesiology, 2009, 19, 476-483.	1.7	6
137	Plasticity of the Human Tendon to Short- and Long-Term Mechanical Loading. Exercise and Sport Sciences Reviews, 2009, 37, 66-72.	3.0	14
138	Effect of voluntary activation on age-related muscle fatigue resistance. Journal of Biomechanics, 2008, 41, 1229-1235.	2.1	34
139	Deficits in the way to achieve balance related to mechanisms of dynamic stability control in the elderly. Journal of Biomechanics, 2008, 41, 1754-1761.	2.1	66
140	Influence of different shortening velocities preceding stretch on human triceps surae moment generation in vivo. Journal of Biomechanics, 2008, 41, 2272-2278.	2.1	3
141	Dynamic stability control in forward falls: postural corrections after muscle fatigue in young and older adults. European Journal of Applied Physiology, 2008, 103, 295-306.	2.5	49
142	Assessment of muscle volume and physiological cross-sectional area of the human triceps surae muscle in vivo. Journal of Biomechanics, 2008, 41, 2211-2218.	2.1	132
143	Mechanical and morphological properties of the triceps surae muscle“tendon unit in old and young adults and their interaction with a submaximal fatiguing contraction. Journal of Electromyography and Kinesiology, 2008, 18, 89-98.	1.7	59
144	Effect of joint rotation correction when measuring elongation of the gastrocnemius medialis tendon and aponeurosis. Journal of Electromyography and Kinesiology, 2008, 18, 503-508.	1.7	51

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145	Age-related deficit in dynamic stability control after forward falls is affected by muscle strength and tendon stiffness. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 980-989.	1.7	127
146	Biomechanics of double transtibial amputee sprinting using dedicated sprinting prostheses. <i>Sports Technology</i> , 2008, 1, 220-227.	0.4	96
147	Age-Related Effect of Static and Cyclic Loadings on the Strain-Force Curve of the Vastus Lateralis Tendon and Aponeurosis. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 011007.	1.3	15
148	Adaptational responses of the human Achilles tendon by modulation of the applied cyclic strain magnitude. <i>Journal of Experimental Biology</i> , 2007, 210, 2743-2753.	1.7	282
149	Evidence of Proactive Forefoot Control During Landings on Inclined Surfaces. <i>Journal of Motor Behavior</i> , 2007, 39, 89-102.	0.9	9
150	Track compliance does not affect sprinting performance. <i>Journal of Sports Sciences</i> , 2007, 25, 1479-1490.	2.0	28
151	Aging and running experience affects the gearing in the musculoskeletal system of the lower extremities while walking. <i>Gait and Posture</i> , 2007, 25, 590-596.	1.4	25
152	Muscle–Tendon unit mechanical and morphological properties and sprint performance. <i>Journal of Sports Sciences</i> , 2007, 25, 1035-1046.	2.0	75
153	Mechanical properties of the triceps surae tendon and aponeurosis in relation to intensity of sport activity. <i>Journal of Biomechanics</i> , 2007, 40, 1946-1952.	2.1	153
154	Changes in fascicle length from rest to maximal voluntary contraction affect the assessment of voluntary activation. <i>Journal of Biomechanics</i> , 2007, 40, 3193-3200.	2.1	23
155	Effect of contraction form and contraction velocity on the differences between resultant and measured ankle joint moments. <i>Journal of Biomechanics</i> , 2007, 40, 1622-1628.	2.1	16
156	In vivo motion transmission in the inactive gastrocnemius medialis muscle–tendon unit during ankle and knee joint rotation. <i>Journal of Electromyography and Kinesiology</i> , 2006, 16, 413-422.	1.7	63
157	Mechanical and morphological properties of human quadriceps femoris and triceps surae muscle–tendon unit in relation to aging and running. <i>Journal of Biomechanics</i> , 2006, 39, 406-417.	2.1	125
158	Reproducibility of energy parameters in the pole vault. <i>Journal of Biomechanics</i> , 2006, 39, 1464-1471.	2.1	34
159	Effect of different ankle- and knee-joint positions on gastrocnemius medialis fascicle length and EMG activity during isometric plantar flexion. <i>Journal of Biomechanics</i> , 2006, 39, 1891-1902.	2.1	120
160	Adaptational phenomena and mechanical responses during running: effect of surface, aging and task experience. <i>European Journal of Applied Physiology</i> , 2006, 98, 284-298.	2.5	27
161	Age-related degeneration in leg-extensor muscle–tendon units decreases recovery performance after a forward fall: compensation with running experience. <i>European Journal of Applied Physiology</i> , 2006, 99, 73-85.	2.5	60
162	Influence of the Mechanical Properties of the Muscle–Tendon Unit on Force Generation in Runners with Different Running Economy. <i>Biological Cybernetics</i> , 2006, 95, 87-96.	1.3	13

#	ARTICLE	IF	CITATIONS
163	Effect of muscle fatigue on the compliance of the gastrocnemius medialis tendon and aponeurosis. <i>Journal of Biomechanics</i> , 2006, 39, 426-434.	2.1	31
164	Influence of the muscle-tendon unit's mechanical and morphological properties on running economy. <i>Journal of Experimental Biology</i> , 2006, 209, 3345-3357.	1.7	199
165	Differences between measured and resultant joint moments during isometric contractions at the ankle joint. <i>Journal of Biomechanics</i> , 2005, 38, 885-892.	2.1	109
166	Strain and elongation of the human gastrocnemius tendon and aponeurosis during maximal plantarflexion effort. <i>Journal of Biomechanics</i> , 2005, 38, 833-841.	2.1	110
167	Strain and elongation of the vastus lateralis aponeurosis and tendon in vivo during maximal isometric contraction. <i>European Journal of Applied Physiology</i> , 2005, 94, 317-322.	2.5	35
168	Behaviour of the human gastrocnemius muscle architecture during submaximal isometric fatigue. <i>European Journal of Applied Physiology</i> , 2005, 94, 611-617.	2.5	76
169	Joint Stabilizing Response to Expected and Unexpected Tilts. <i>Foot and Ankle International</i> , 2005, 26, 870-880.	2.3	4
170	Mechanical and morphological properties of different muscle-tendon units in the lower extremity and running mechanics: effect of aging and physical activity. <i>Journal of Experimental Biology</i> , 2005, 208, 3907-3923.	1.7	128
171	Orthotic effect of a stabilising mechanism in the surface of gymnastic mats on foot motion during landings. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 507-515.	1.7	5
172	Inevitable joint angular rotation affects muscle architecture during isometric contraction. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 608-616.	1.7	45
173	Joint stabilising response to lateral and medial tilts. <i>Clinical Biomechanics</i> , 2005, 20, 517-525.	1.2	6
174	Motion transmission within the muscle-tendon unit of the m. gastrocnemius medialis during a passive ankle and knee joint rotation in vivo. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2005, 54, 77-77.	0.0	0
175	Comparison of the men's and the women's pole vault at the 2000 Sydney Olympic Games. <i>Journal of Sports Sciences</i> , 2004, 22, 835-842.	2.0	30
176	Effect of the pole-human body interaction on pole vaulting performance. <i>Journal of Biomechanics</i> , 2004, 37, 1353-1360.	2.1	37
177	Choosing EMG parameters: comparison of different onset determination algorithms and EMG integrals in a joint stability study. <i>Clinical Biomechanics</i> , 2004, 19, 196-201.	1.2	35
178	Differences between measured and resultant joint moments during voluntary and artificially elicited isometric knee extension contractions. <i>Clinical Biomechanics</i> , 2004, 19, 277-283.	1.2	104
179	Effect of ankle joint position and electrode placement on the estimation of the antagonistic moment during maximal plantarflexion. <i>Journal of Electromyography and Kinesiology</i> , 2004, 14, 591-597.	1.7	93
180	Reproducibility of electromyography and ground reaction force during various running techniques. <i>Gait and Posture</i> , 2004, 19, 115-123.	1.4	41

#	ARTICLE	IF	CITATIONS
181	Interaction of the Human Body and Surfaces of Different Stiffness during Drop Jumps. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 451-459.	0.4	46
182	The Effect of Drop Jump Starting Height and Contact Time on Power, Work Performed, and Moment of Force. <i>Journal of Strength and Conditioning Research</i> , 2004, 18, 561-566.	2.1	6
183	The Effect of Drop Jump Starting Height and Contact Time on Power, Work Performed, and Moment of Force. <i>Journal of Strength and Conditioning Research</i> , 2004, 18, 561.	2.1	64
184	The effect of falling height on muscle activity and foot motion during landings. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 533-544.	1.7	65
185	Symmetry and Reproducibility of Kinematic Parameters during Various Running Techniques. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1009-1016.	0.4	90
186	A three-dimensional shank-foot model to determine the foot motion during landings. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 130-138.	0.4	65
187	Influence of 2D and 3D body segment models on energy calculations during kinematic analysis of running. <i>European Journal of Applied Physiology</i> , 2002, 86, 337-341.	2.5	2
188	Influence of leg stiffness and its effect on myodynamic jumping performance. <i>Journal of Electromyography and Kinesiology</i> , 2001, 11, 355-364.	1.7	225
189	Leg stiffness and mechanical energetic processes during jumping on a sprung surface. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 923-931.	0.4	68
190	Mechanical energetic processes during the giant swing before the Tkatchev exercise. <i>Journal of Biomechanics</i> , 2001, 34, 505-512.	2.1	35
191	Influence of different approaches for calculating the athlete's mechanical energy on energetic parameters in the pole vault. <i>Journal of Biomechanics</i> , 2000, 33, 1263-1268.	2.1	33
192	Mechanical power in running: a comparison of different approaches. <i>Journal of Biomechanics</i> , 2000, 33, 457-463.	2.1	50
193	Mechanical energetic processes during the giant swing exercise before dismounts and flight elements on the high bar and the uneven parallel bars. <i>Journal of Biomechanics</i> , 1999, 32, 811-820.	2.1	51
194	The effect of speed on leg stiffness and joint kinetics in human running. <i>Journal of Biomechanics</i> , 1999, 32, 1349-1353.	2.1	337
195	A mathematical high bar human body model for analysing and interpreting mechanical-energetic processes on the high bar. <i>Journal of Biomechanics</i> , 1998, 31, 1083-1092.	2.1	48
196	Humans Exploit Robust Locomotion by Improving the Stability of Control Signals. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0