Adamantios Arampatzis

List of Publications by Year
in descending order

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196	8,082	41258	69108
papers	citations	49 h-index	77 g-index

214	214	214	5137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of speed on leg stiffness and joint kinetics in human running. Journal of Biomechanics, 1999, 32, 1349-1353.	0.9	337
2	Adaptational responses of the human Achilles tendon by modulation of the applied cyclic strain magnitude. Journal of Experimental Biology, 2007, 210, 2743-2753.	0.8	282
3	Human tendon adaptation in response to mechanical loading: a systematic review and meta-analysis of exercise intervention studies on healthy adults. Sports Medicine - Open, 2015, 1, 7.	1.3	270
4	Influence of leg stiffness and its effect on myodynamic jumping performance. Journal of Electromyography and Kinesiology, 2001, 11, 355-364.	0.7	225
5	Influence of the muscle-tendon unit's mechanical and morphological properties on running economy. Journal of Experimental Biology, 2006, 209, 3345-3357.	0.8	199
6	Plasticity of human Achilles tendon mechanical and morphological properties in response to cyclic strain. Journal of Biomechanics, 2010, 43, 3073-3079.	0.9	179
7	Mechanical properties of the triceps surae tendon and aponeurosis in relation to intensity of sport activity. Journal of Biomechanics, 2007, 40, 1946-1952.	0.9	153
8	Assessment of muscle volume and physiological cross-sectional area of the human triceps surae muscle in vivo. Journal of Biomechanics, 2008, 41, 2211-2218.	0.9	132
9	Mechanical and morphological properties of different muscleâ€“tendon units in the lower extremity and running mechanics: effect of aging and physical activity. Journal of Experimental Biology, 2005, 208, 3907-3923.	0.8	128
10	Age-related deficit in dynamic stability control after forward falls is affected by muscle strength and tendon stiffness. Journal of Electromyography and Kinesiology, 2008, 18, 980-989.	0.7	127
11	Mechanical and morphological properties of human quadriceps femoris and triceps surae muscleâ€“tendon unit in relation to aging and running. Journal of Biomechanics, 2006, 39, 406-417.	0.9	125
12	Exercise-induced changes in triceps surae tendon stiffness and muscle strength affect running economy in humans. European Journal of Applied Physiology, 2013, 113, 1605-1615.	1.2	125
13	Effect of different ankle- and knee-joint positions on gastrocnemius medialis fascicle length and EMG activity during isometric plantar flexion. Journal of Biomechanics, 2006, 39, 1891-1902.	0.9	120
14	Challenging human locomotion: stability and modular organisation in unsteady conditions. Scientific Reports, 2018, 8, 2740.	1.6	113
15	Strain and elongation of the human gastrocnemius tendon and aponeurosis during maximal plantarflexion effort. Journal of Biomechanics, 2005, 38, 833-841.	0.9	110
16	Differences between measured and resultant joint moments during isometric contractions at the ankle joint. Journal of Biomechanics, 2005, 38, 885-892.	0.9	109
17	Differences between measured and resultant joint moments during voluntary and artificially elicited isometric knee extension contractions. Clinical Biomechanics, 2004, 19, 277-283.	0.5	104
18	Biomechanics of double transtibial amputee sprinting using dedicated sprinting prostheses. Sports Technology, 2008, 1, 220-227.	0.4	96

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19	Effect of ankle joint position and electrode placement on the estimation of the antagonistic moment during maximal plantarflexion. Journal of Electromyography and Kinesiology, 2004, 14, 591-597.	0.7	93
20	Human achilles tendon plasticity in response to cyclic strain: effect of rate and duration. Journal of Experimental Biology, 2014, 217, 4010-7.	0.8	92
21	Symmetry and Reproducibility of Kinematic Parameters during Various Running Techniques. Medicine and Science in Sports and Exercise, 2003, 35, 1009-1016.	0.2	90
22	Adaptational responses in dynamic stability during disturbed walking in the elderly. Journal of Biomechanics, 2010, 43, 2362-2368.	0.9	85
23	On the Methodological Implications of Extracting Muscle Synergies from Human Locomotion. International Journal of Neural Systems, 2017, 27, 1750007.	3.2	83
24	Footwear affects the gearing at the ankle and knee joints during running. Journal of Biomechanics, 2010, 43, 2120-2125.	0.9	82
25	Behaviour of the human gastrocnemius muscle architecture during submaximal isometric fatigue. European Journal of Applied Physiology, 2005, 94, 611-617.	1.2	76
26	MuscleÂâ€“Âtendon unit mechanical and morphological properties and sprint performance. Journal of Sports Sciences, 2007, 25, 1035-1046.	1.0	75
27	Repeatability and reproducibility of OSSCA, a functional approach for assessing the kinematics of the lower limb. Gait and Posture, 2010, 32, 231-236.	0.6	72
28	The forceâ€“lengthâ€“velocity potential of the human soleus muscle is related to the energetic cost of running. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20192560.	1.2	70
29	Operating length and velocity of human vastus lateralis muscle during walking and running. Scientific Reports, 2018, 8, 5066.	1.6	69
30	Leg stiffness and mechanical energetic processes during jumping on a sprung surface. Medicine and Science in Sports and Exercise, 2001, 33, 923-931.	0.2	68
31	Deficits in the way to achieve balance related to mechanisms of dynamic stability control in the elderly. Journal of Biomechanics, 2008, 41, 1754-1761.	0.9	66
32	A three-dimensional shank-foot model to determine the foot motion during landings. Medicine and Science in Sports and Exercise, 2002, 34, 130-138.	0.2	65
33	The effect of falling height on muscle activity and foot motion during landings. Journal of Electromyography and Kinesiology, 2003, 13, 533-544.	0.7	65
34	Predictive and Reactive Locomotor Adaptability in Healthy Elderly: A Systematic Review and Meta-Analysis. Sports Medicine, 2015, 45, 1759-1777.	3.1	64
35	The Effect of Drop Jump Starting Height and Contact Time on Power, Work Performed, and Moment of Force. Journal of Strength and Conditioning Research, 2004, 18, 561.	1.0	64
36	In vivo motion transmission in the inactive gastrocnemius medialis muscleâ€“tendon unit during ankle and knee joint rotation. Journal of Electromyography and Kinesiology, 2006, 16, 413-422.	0.7	63

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37	Reproducibility of fascicle length and pennation angle of gastrocnemius medialis in human gait in vivo. Gait and Posture, 2010, 31, 73-77.	0.6	63
38	Mini-trampoline exercise related to mechanisms of dynamic stability improves the ability to regain balance in elderly. Journal of Electromyography and Kinesiology, 2011, 21, 512-518.	0.7	63
39	Adaptive feedback potential in dynamic stability during disturbed walking in the elderly. Journal of Biomechanics, 2011, 44, 1921-1926.	0.9	63
40	Neuromuscular electrical stimulation (NMES) reduces structural and functional losses of quadriceps muscle and improves health status in patients with knee osteoarthritis. Journal of Orthopaedic Research, 2013, 31, 511-516.	1.2	63
41	Age-related degeneration in leg-extensor muscleâ€“tendon units decreases recovery performance after a forward fall: compensation with running experience. European Journal of Applied Physiology, 2006, 99, 73-85.	1.2	60
42	Physiological Adaptations following Resistance Training in Youth Athletesâ€”A Narrative Review. Pediatric Exercise Science, 2016, 28, 501-520.	0.5	60
43	Modular organization of murine locomotor pattern in the presence and absence of sensory feedback from muscle spindles. Journal of Physiology, 2019, 597, 3147-3165.	1.3	60
44	Mechanical and morphological properties of the triceps surae muscleâ€“tendon unit in old and young adults and their interaction with a submaximal fatiguing contraction. Journal of Electromyography and Kinesiology, 2008, 18, 89-98.	0.7	59
45	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.	1.3	57
46	Effects of load magnitude, muscle length and velocity during eccentric chronic loading on the longitudinal growth of vastus lateralis muscle. Journal of Experimental Biology, 2014, 217, 2726-33.	0.8	56
47	Exercise of mechanisms for dynamic stability control increases stability performance in the elderly. Journal of Biomechanics, 2011, 44, 52-58.	0.9	54
48	Asymmetry of <scp>A</scp>chilles tendon mechanical and morphological properties between both legs. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e124-32.	1.3	54
49	Fiber type characterization in skeletal muscle by diffusion tensor imaging. NMR in Biomedicine, 2013, 26, 1220-1224.	1.6	52
50	Neuromotor Dynamics of Human Locomotion in Challenging Settings. IScience, 2020, 23, 100796.	1.9	52
51	Mechanical energetic processes during the giant swing exercise before dismounts and flight elements on the high bar and the uneven parallel bars. Journal of Biomechanics, 1999, 32, 811-820.	0.9	51
52	Effect of joint rotation correction when measuring elongation of the gastrocnemius medialis tendon and aponeurosis. Journal of Electromyography and Kinesiology, 2008, 18, 503-508.	0.7	51
53	Mechanical power in running: a comparison of different approaches. Journal of Biomechanics, 2000, 33, 457-463.	0.9	50
54	Muscle and tendon adaptation in adolescent athletes: AÂlongitudinal study. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 75-82.	1.3	50

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55	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.	1.2	49
56	Increased unilateral tendon stiffness and its effect on gait 2â€“6 years after <scp>A</scp>chilles tendon rupture. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 860-867.	1.3	49
57	A mathematical high barâ€“human body model for analysing and interpreting mechanical-energetic processes on the high bar. Journal of Biomechanics, 1998, 31, 1083-1092.	0.9	48
58	Interaction of the Human Body and Surfaces of Different Stiffness during Drop Jumps. Medicine and Science in Sports and Exercise, 2004, 36, 451-459.	0.2	46
59	Inevitable joint angular rotation affects muscle architecture during isometric contraction. Journal of Electromyography and Kinesiology, 2005, 15, 608-616.	0.7	45
60	Operating length and velocity of human M. vastus lateralis fascicles during vertical jumping. Royal Society Open Science, 2017, 4, 170185.	1.1	45
61	Insufficient accuracy of the ultrasound-based determination of Achilles tendon cross-sectional area. Journal of Biomechanics, 2016, 49, 2932-2937.	0.9	44
62	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.	1.3	43
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.	1.3	42
64	Reproducibility of electromyography and ground reaction force during various running techniques. Gait and Posture, 2004, 19, 115-123.	0.6	41
65	Effects of reduced plantar cutaneous afferent feedback on locomotor adjustments in dynamic stability during perturbed walking. Journal of Biomechanics, 2011, 44, 2194-2200.	0.9	40
66	Athletic training affects the uniformity of muscle and tendon adaptation during adolescence. Journal of Applied Physiology, 2016, 121, 893-899.	1.2	40
67	A Pressure Plate-Based Method for the Automatic Assessment of Foot Strike Patterns During Running. Annals of Biomedical Engineering, 2016, 44, 1646-1655.	1.3	39
68	Ultrasound does not provide reliable results for the measurement of the patellar tendon cross sectional area. Journal of Electromyography and Kinesiology, 2013, 23, 1278-1282.	0.7	38
69	Effects of ankleâ€“foot braces on medial gastrocnemius morphometrics and gait in children with cerebral palsy. Journal of Children's Orthopaedics, 2015, 9, 209-219.	0.4	38
70	Effect of the poleâ€“human body interaction on pole vaulting performance. Journal of Biomechanics, 2004, 37, 1353-1360.	0.9	37
71	Evidence of imbalanced adaptation between muscle and tendon in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2014, 24, e283-9.	1.3	37
72	Modular Control of Human Movement During Running: An Open Access Data Set. Frontiers in Physiology, 2018, 9, 1509.	1.3	37

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73	Muscle Strength and Neuromuscular Control in Low-Back Pain: Elite Athletes Versus General Population. Frontiers in Neuroscience, 2018, 12, 436.	1.4	37
74	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.	1.2	36
75	Quantifying mechanical loading and elastic strain energy of the human Achilles tendon during walking and running. Scientific Reports, 2021, 11, 5830.	1.6	36
76	Mechanical energetic processes during the giant swing before the Tkatchev exercise. Journal of Biomechanics, 2001, 34, 505-512.	0.9	35
77	Choosing EMG parameters: comparison of different onset determination algorithms and EMG integrals in a joint stability study. Clinical Biomechanics, 2004, 19, 196-201.	0.5	35
78	Strain and elongation of the vastus lateralis aponeurosis and tendon in vivo during maximal isometric contraction. European Journal of Applied Physiology, 2005, 94, 317-322.	1.2	35
79	Reproducibility of gastrocnemius medialis muscle architecture during treadmill running. Journal of Electromyography and Kinesiology, 2011, 21, 1081-1086.	0.7	35
80	A wide number of trials is required to achieve acceptable reliability for measurement patellar tendon elongation in vivo. Gait and Posture, 2012, 35, 334-338.	0.6	35
81	Young and old adults prioritize dynamic stability control following gait perturbations when performing a concurrent cognitive task. Gait and Posture, 2013, 37, 373-377.	0.6	35
82	Muscle shape consistency and muscle volume prediction of thigh muscles. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e208-13.	1.3	35
83	Transition from shod to barefoot alters dynamic stability during running. Gait and Posture, 2017, 56, 31-36.	0.6	35
84	Reproducibility of energy parameters in the pole vault. Journal of Biomechanics, 2006, 39, 1464-1471.	0.9	34
85	Effect of voluntary activation on age-related muscle fatigue resistance. Journal of Biomechanics, 2008, 41, 1229-1235.	0.9	34
86	Muscle architecture and torque production in stroke survivors: an observational study. Topics in Stroke Rehabilitation, 2017, 24, 206-213.	1.0	34
87	Muscle and Tendon Adaptation in Adolescence: Elite Volleyball Athletes Compared to Untrained Boys and Girls. Frontiers in Physiology, 2017, 8, 417.	1.3	34
88	Influence of different approaches for calculating the athlete's mechanical energy on energetic parameters in the pole vault. Journal of Biomechanics, 2000, 33, 1263-1268.	0.9	33
89	Why Do Older Sprinters Reach the Finish Line Later?. Exercise and Sport Sciences Reviews, 2011, 39, 18-22.	1.6	33
90	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.	0.6	33

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91	Muscle Activation Patterns Are More Constrained and Regular in Treadmill Than in Overground Human Locomotion. Frontiers in Bioengineering and Biotechnology, 2020, 8, 581619.	2.0	32
92	Individualized Muscle-Tendon Assessment and Training. Frontiers in Physiology, 2020, 11, 723.	1.3	32
93	Effect of muscle fatigue on the compliance of the gastrocnemius medialis tendon and aponeurosis. Journal of Biomechanics, 2006, 39, 426-434.	0.9	31
94	Lower complexity of motor primitives ensures robust control of high-speed human locomotion. Heliyon, 2020, 6, e05377.	1.4	31
95	Comparison of the men's and the women's pole vault at the 2000 Sydney Olympic Games. Journal of Sports Sciences, 2004, 22, 835-842.	1.0	30
96	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.	1.3	30
97	The Influence of Footwear on the Modular Organization of Running. Frontiers in Physiology, 2017, 8, 958.	1.3	29
98	Track compliance does not affect sprinting performance. Journal of Sports Sciences, 2007, 25, 1479-1490.	1.0	28
99	Extreme Levels of Noise Constitute a Key Neuromuscular Deficit in the Elderly. PLoS ONE, 2012, 7, e48449.	1.1	28
100	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.	0.5	28
101	Maturation-, age-, and sex-specific anthropometric and physical fitness percentiles of German elite young athletes. PLoS ONE, 2020, 15, e0237423.	1.1	28
102	Stress and Self-Efficacy as Long-Term Predictors for Chronic Low Back Pain: A Prospective Longitudinal Study . Journal of Pain Research, 2020, Volume 13, 613-621.	0.8	28
103	Adaptational phenomena and mechanical responses during running: effect of surface, aging and task experience. European Journal of Applied Physiology, 2006, 98, 284-298.	1.2	27
104	Neuromuscular organisation and robustness of postural control in the presence of perturbations. Scientific Reports, 2019, 9, 12273.	1.6	27
105	Exercise of mechanisms of dynamic stability improves the stability state after an unexpected gait perturbation in elderly. Age, 2013, 35, 1905-1915.	3.0	26
106	Aging and running experience affects the gearing in the musculoskeletal system of the lower extremities while walking. Gait and Posture, 2007, 25, 590-596.	0.6	25
107	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.	1.6	25
108	Central Factors Explain Muscle Weakness in Young Fallers With Parkinsonâ€™s Disease. Neurorehabilitation and Neural Repair, 2013, 27, 753-759.	1.4	25

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109	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.	1.4	25
110	The Maximum Lyapunov Exponent During Walking and Running: Reliability Assessment of Different Marker-Sets. Frontiers in Physiology, 2018, 9, 1101.	1.3	25
111	Morphological and Mechanical Properties of the Quadriceps Femoris Muscle-Tendon Unit From Adolescence to Adulthood: Effects of Age and Athletic Training. Frontiers in Physiology, 2019, 10, 1082.	1.3	25
112	Fuzziness of muscle synergies in patients with multiple sclerosis indicates increased robustness of motor control during walking. Scientific Reports, 2020, 10, 7249.	1.6	25
113	Enthalpy efficiency of the soleus muscle contributes to improvements in running economy. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202784.	1.2	25
114	Changes in fascicle length from rest to maximal voluntary contraction affect the assessment of voluntary activation. Journal of Biomechanics, 2007, 40, 3193-3200.	0.9	23
115	Cognitive demand and predictive adaptational responses in dynamic stability control. Journal of Biomechanics, 2012, 45, 2330-2336.	0.9	22
116	Validation of a simplified method for muscle volume assessment. Journal of Biomechanics, 2014, 47, 1348-1352.	0.9	22
117	Short- and long-term effects of altered point of ground reaction force application on human running energetics. Journal of Experimental Biology, 2018, 221, .	0.8	22
118	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.	1.2	21
119	Muscle-specific economy of force generation and efficiency of work production during human running. ELife, 2021, 10, .	2.8	21
120	Motor Control Stabilisation Exercise for Patients with Non-Specific Low Back Pain: A Prospective Meta-Analysis with Multilevel Meta-Regressions on Intervention Effects. Journal of Clinical Medicine, 2020, 9, 3058.	1.0	20
121	Diffusion Tensor Imaging of Skeletal Muscle - Correlation of Fractional Anisotropy to Muscle Power. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2013, 185, 857-861.	0.7	19
122	Modular control during incline and level walking in humans. Journal of Experimental Biology, 2017, 220, 807-813.	0.8	19
123	Patellar Tendon Strain Associates to Tendon Structural Abnormalities in Adolescent Athletes. Frontiers in Physiology, 2019, 10, 963.	1.3	19
124	Altered control strategy between leading and trailing leg increases knee adduction moment in the elderly while descending stairs. Journal of Biomechanics, 2011, 44, 706-711.	0.9	18
125	Muscle Synergies in Parkinsonâ€™s Disease. Sensors, 2020, 20, 3209.	2.1	18
126	Diagnosis of psychosocial risk factors in prevention of low back pain in athletes (MiSpEx). BMJ Open Sport and Exercise Medicine, 2017, 3, e000295.	1.4	17

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127	Effect of contraction form and contraction velocity on the differences between resultant and measured ankle joint moments. Journal of Biomechanics, 2007, 40, 1622-1628.	0.9	16
128	Short-term functional assessment of gait, plantarflexor strength, and tendon properties after Achilles tendon rupture. Gait and Posture, 2018, 62, 179-185.	0.6	16
129	Age-Related Effect of Static and Cyclic Loadings on the Strain-Force Curve of the Vastus Lateralis Tendon and Aponeurosis. Journal of Biomechanical Engineering, 2008, 130, 011007.	0.6	15
130	Commentaries on Viewpoint: On the hysteresis in the human Achilles tendon. Journal of Applied Physiology, 2013, 114, 518-520.	1.2	15
131	Standing on unstable surface challenges postural control of tracking tasks and modulates neuromuscular adjustments specific to task complexity. Scientific Reports, 2021, 11, 6122.	1.6	15
132	Plasticity of the Human Tendon to Short- and Long-Term Mechanical Loading. Exercise and Sport Sciences Reviews, 2009, 37, 66-72.	1.6	14
133	Editorial: Neuromuscular Training and Adaptations in Youth Athletes. Frontiers in Physiology, 2018, 9, 1264.	1.3	14
134	Influence of the Mechanical Properties of the Muscleâ€“tendon Unit on Force Generation in Runners with Different Running Economy. Biological Cybernetics, 2006, 95, 87-96.	0.6	13
135	Lower safety factor for old adults during walking at preferred velocity. Age, 2014, 36, 9636.	3.0	13
136	Recovery performance and factors that classify young fallers and non-fallers in Parkinsonâ€™s disease. Human Movement Science, 2015, 41, 136-146.	0.6	13
137	Reactive but not predictive locomotor adaptability is impaired in young Parkinson's disease patients. Gait and Posture, 2016, 48, 177-182.	0.6	13
138	Triceps Surae Muscle-Tendon Unit Properties in Preadolescent Children: A Comparison of Artistic Gymnastic Athletes and Non-athletes. Frontiers in Physiology, 2019, 10, 615.	1.3	13
139	Influence of pole plant time on the performance of a special jump and plant exercise in the pole vault. Journal of Biomechanics, 2012, 45, 1625-1631.	0.9	12
140	Trunk muscle strength and lumboâ€pelvic kinematics in adolescent athletes: Effects of age and sex. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 1691-1698.	1.3	12
141	Acute Effects of Stretching on Leg and Vertical Stiffness During Treadmill Running. Journal of Strength and Conditioning Research, 2017, 31, 3417-3424.	1.0	11
142	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.	0.9	11
143	Swaying slower reduces the destabilizing effects of a compliant surface on voluntary sway dynamics. PLoS ONE, 2019, 14, e0226263.	1.1	11
144	A Functional High-Load Exercise Intervention for the Patellar Tendon Reduces Tendon Pain Prevalence During a Competitive Season in Adolescent Handball Players. Frontiers in Physiology, 2021, 12, 626225.	1.3	11

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145	Functional adaptation of connective tissue by training. Deutsche Zeitschrift Fur Sportmedizin, 2019, 2019, 105-110.	0.2	11
146	Evidence of Proactive Forefoot Control During Landings on Inclined Surfaces. Journal of Motor Behavior, 2007, 39, 89-102.	0.5	9
147	Center of Pressure Feedback Modulates the Entrainment of Voluntary Sway to the Motion of a Visual Target. Applied Sciences (Switzerland), 2019, 9, 3952.	1.3	9
148	Effects of long-term athletic training on muscle morphology and tendon stiffness in preadolescence: association with jump performance. European Journal of Applied Physiology, 2020, 120, 2715-2727.	1.2	9
149	Medicine in Spine Exercise [MiSpEx] â€“ a national research network to evaluate back pain. Deutsche Zeitschrift Fur Sportmedizin, 2018, 2018, 229-235.	0.2	9
150	Sex-specific tuning of modular muscle activation patterns for locomotion in young and older adults. PLoS ONE, 2022, 17, e0269417.	1.1	9
151	Effects of submaximal fatiguing contractions on the components of dynamic stability control after forward falls. Journal of Electromyography and Kinesiology, 2011, 21, 270-275.	0.7	8
152	Patellar Tendon Stiffness Is Not Reduced During Pregnancy. Frontiers in Physiology, 2019, 10, 334.	1.3	8
153	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. Frontiers in Sports and Active Living, 2020, 2, 52.	0.9	8
154	Prediction of Balance Perturbations and Falls on Stairs in Older People Using a Biomechanical Profiling Approach: A 12-Month Longitudinal Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 638-646.	1.7	8
155	Modulation of physiological cross-sectional area and fascicle length of vastus lateralis muscle in response to eccentric exercise. Journal of Biomechanics, 2020, 111, 110016.	0.9	7
156	Prevention of strainâ€induced impairments of patellar tendon micromorphology in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 1708-1718.	1.3	7
157	Reliable and effective novel home-based training set-up for application of an evidence-based high-loading stimulus to improve triceps surae function. Journal of Sports Sciences, 2021, 39, 2786-2795.	1.0	7
158	The Effect of Drop Jump Starting Height and Contact Time on Power, Work Performed, and Moment of Force. Journal of Strength and Conditioning Research, 2004, 18, 561-566.	1.0	6
159	Joint stabilising response to lateral and medial tilts. Clinical Biomechanics, 2005, 20, 517-525.	0.5	6
160	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.	0.7	6
161	Muscle and Tendon Morphology in Early-Adolescent Athletes and Untrained Peers. Frontiers in Physiology, 2020, 11, 1029.	1.3	6
162	Orthotic effect of a stabilising mechanism in the surface of gymnastic mats on foot motion during landings. Journal of Electromyography and Kinesiology, 2005, 15, 507-515.	0.7	5

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163	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.	0.9	5
164	Vastus Lateralis Architecture Changes During Pregnancy â€“ A Longitudinal Study. Frontiers in Physiology, 2019, 10, 1163.	1.3	5
165	Muscle volume reconstruction from several short magnetic resonance imaging sequences. Journal of Biomechanics, 2019, 84, 269-273.	0.9	5
166	Perturbationâ€based exercise for prevention of lowâ€back pain in adolescent athletes. Translational Sports Medicine, 2021, 4, 128-137.	0.5	5
167	Neuromechanics of Dynamic Balance Tasks in the Presence of Perturbations. Frontiers in Human Neuroscience, 2020, 14, 560630.	1.0	5
168	Development of Muscleâ€“Tendon Adaptation in Preadolescent Gymnasts and Untrained Peers: A 12-Month Longitudinal Study. Medicine and Science in Sports and Exercise, 2021, 53, 2565-2576.	0.2	5
169	Joint Stabilizing Response to Expected and Unexpected Tilts. Foot and Ankle International, 2005, 26, 870-880.	1.1	4
170	In vivo moment generation and architecture of the human plantar flexors after different shorteningâ€“stretch cycles velocities. Journal of Electromyography and Kinesiology, 2009, 19, 322-330.	0.7	4
171	Effects of Lengthening Velocity During Eccentric Training on Vastus Lateralis Muscle Hypertrophy. Frontiers in Physiology, 2019, 10, 957.	1.3	4
172	Simplified Triceps Surae Muscle Volume Assessment in Older Adults. Frontiers in Physiology, 2019, 10, 1299.	1.3	4
173	Impact of Altered Gastrocnemius Morphometrics and Fascicle Behavior on Walking Patterns in Children With Spastic Cerebral Palsy. Frontiers in Physiology, 2020, 11, 518134.	1.3	4
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