FranÃ§ois Hug

List of Publications by Year
in descending order

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191 papers	7,218 citations	46918 47 h-index	79541 73 g-index
202 all docs	202 docs citations	202 times ranked	4701 citing authors

#	Article	IF	Citations
1	Electromyographic analysis of pedaling: A review. Journal of Electromyography and Kinesiology, 2009, 19, 182-198.	0.7	241
2	Can muscle coordination be precisely studied by surface electromyography?. Journal of Electromyography and Kinesiology, 2011, 21, 1-12.	0.7	239
3	Elastography for Muscle Biomechanics. Exercise and Sport Sciences Reviews, 2015, 43, 125-133.	1.6	233
4	Characterization of passive elastic properties of the human medial gastrocnemius muscle belly using supersonic shear imaging. Journal of Biomechanics, 2012, 45, 978-984.	0.9	217
5	Muscle shear elastic modulus measured using supersonic shear imaging is highly related to muscle activity level. Journal of Applied Physiology, 2010, 108, 1389-1394.	1.2	210
6	Supersonic shear imaging provides a reliable measurement of resting muscle shear elastic modulus. Physiological Measurement, 2012, 33, N19-N28.	1.2	199
7	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. Journal of Electromyography and Kinesiology, 2020, 53, 102438.	0.7	170
8	Is interindividual variability of EMG patterns in trained cyclists related to different muscle synergies?. Journal of Applied Physiology, 2010, 108, 1727-1736.	1.2	157
9	Consistency of muscle synergies during pedaling across different mechanical constraints. Journal of Neurophysiology, 2011, 106, 91-103.	0.9	155
10	Estimation of Individual Muscle Force Using Elastography. PLoS ONE, 2011, 6, e29261.	1.1	136
11	Slack length of gastrocnemius medialis and Achilles tendon occurs at different ankle angles. Journal of Biomechanics, 2013, 46, 2534-2538.	0.9	122
12	Electromechanical delay revisited using very high frame rate ultrasound. Journal of Applied Physiology, 2009, 106, 1970-1975.	1.2	121
13	Muscle shear elastic modulus is linearly related to muscle torque over the entire range of isometric contraction intensity. Journal of Electromyography and Kinesiology, 2015, 25, 703-708.	0.7	118
14	Timeâ€course effect of exerciseâ€induced muscle damage on localized muscle mechanical properties assessed using elastography. Acta Physiologica, 2014, 211, 135-146.	1.8	115
15	Electroencephalographic evidence for pre-motor cortex activation during inspiratory loading in humans. Journal of Physiology, 2007, 578, 569-578.	1.3	105
16	Between-subject variability of muscle synergies during a complex motor skill. Frontiers in Computational Neuroscience, 2012, 6, 99.	1.2	104
17	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. Journal of Electromyography and Kinesiology, 2019, 48, 128-144.	0.7	95
18	Diurnal Variation in Wingate-Test Performance and Associated Electromyographic Parameters. Chronobiology International, 2011, 28, 706-713.	0.9	92

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19	Achilles and patellar tendinopathy display opposite changes in elastic properties: A shear wave elastography study. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 1201-1208.	1.3	89
20	Nonâ€invasive assessment of muscle stiffness in patients with duchenne muscular dystrophy. Muscle and Nerve, 2015, 51, 284-286.	1.0	87
21	Shear elastic modulus can be used to estimate an index of individual muscle force during a submaximal isometric fatiguing contraction. Journal of Applied Physiology, 2012, 113, 1353-1361.	1.2	86
22	Stiffness mapping of lower leg muscles during passive dorsiflexion. Journal of Anatomy, 2017, 230, 639-650.	0.9	82
23	Changes of Pedaling Technique and Muscle Coordination during an Exhaustive Exercise. Medicine and Science in Sports and Exercise, 2009, 41, 1277-1286.	0.2	81
24	Intra-session repeatability of lower limb muscles activation pattern during pedaling. Journal of Electromyography and Kinesiology, 2008, 18, 857-865.	0.7	74
25	Force-Velocity Relationship in Cycling Revisited. Medicine and Science in Sports and Exercise, 2010, 42, 1174-1183.	0.2	73
26	Heterogeneity of muscle recruitment pattern during pedaling in professional road cyclists: a magnetic resonance imaging and electromyography study. European Journal of Applied Physiology, 2004, 92, 334-42.	1.2	70
27	Effect of vastus lateralis fatigue on load sharing between quadriceps femoris muscles during isometric knee extensions. Journal of Neurophysiology, 2014, 111, 768-776.	0.9	67
28	Massage induces an immediate, albeit shortâ€term, reduction in muscle stiffness. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e490-6.	1.3	67
29	Influence of different racing positions on mechanical and electromyographic patterns during pedalling. Scandinavian Journal of Medicine and Science in Sports, 2009, 19, 44-54.	1.3	64
30	In vivoquantification of the shear modulus of the human Achilles tendon during passive loading using shear wave dispersion analysis. Physics in Medicine and Biology, 2016, 61, 2485-2496.	1.6	64
31	Dyspnea and surface inspiratory electromyograms in mechanically ventilated patients. Intensive Care Medicine, 2013, 39, 1368-1376.	3.9	61
32	Muscles from the same muscle group do not necessarily share common drive: evidence from the human triceps surae. Journal of Applied Physiology, 2021, 130, 342-354.	1.2	61
33	Analysis of motor unit spike trains estimated from high-density surface electromyography is highly reliable across operators. Journal of Electromyography and Kinesiology, 2021, 58, 102548.	0.7	61
34	EMG versus oxygen uptake during cycling exercise in trained and untrained subjects. Journal of Electromyography and Kinesiology, 2004, 14, 187-195.	0.7	59
35	Effect of acute noxious stimulation to the leg or back on muscle synergies during walking. Journal of Neurophysiology, 2015, 113, 244-254.	0.9	59
36	Time of Day Effects on Repeated Sprint Ability. International Journal of Sports Medicine, 2012, 33, 975-980.	0.8	57

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37	Influence of Passive Muscle Tension on Electromechanical Delay in Humans. PLoS ONE, 2013, 8, e53159.	1.1	56
38	Interindividual variability of electromyographic patterns and pedal force profiles in trained cyclists. European Journal of Applied Physiology, 2008, 104, 667-678.	1.2	55
39	Reliability of Abdominal Muscle Stiffness Measured Using Elastography during Trunk Rehabilitation Exercises. Ultrasound in Medicine and Biology, 2016, 42, 1018-1025.	0.7	55
40	Occurrence of electromyographic and ventilatory thresholds in professional road cyclists. European Journal of Applied Physiology, 2003, 90, 643-646.	1.2	54
41	Scalene muscle activity during progressive inspiratory loading under pressure support ventilation in normal humans. Respiratory Physiology and Neurobiology, 2008, 164, 441-448.	0.7	54
42	No evidence of expertise-related changes in muscle synergies during rowing. Journal of Electromyography and Kinesiology, 2011, 21, 1030-1040.	0.7	54
43	Evidence of changes in load sharing during isometric elbow flexion with ramped torque. Journal of Biomechanics, 2012, 45, 1424-1429.	0.9	54
44	Non-invasive assessment of sciatic nerve stiffness during human ankle motion using ultrasound shear wave elastography. Journal of Biomechanics, 2016, 49, 326-331.	0.9	53
45	Adjustment of Muscle Coordination during an All-Out Sprint Cycling Task. Medicine and Science in Sports and Exercise, 2012, 44, 2154-2164.	0.2	52
46	Stiffness of individual quadriceps muscle assessed using ultrasound shear wave elastography during passive stretching. Journal of Sport and Health Science, 2018, 7, 245-249.	3.3	52
47	EMG signs of neuromuscular fatigue related to the ventilatory threshold during cycling exercise. Clinical Physiology and Functional Imaging, 2003, 23, 208-214.	0.5	51
48	Fatigue-related adaptations in muscle coordination during a cyclic exercise in humans. Journal of Experimental Biology, 2011, 214, 3305-3314.	0.8	50
49	Muscle Force Cannot Be Directly Inferred From Muscle Activation: Illustrated by the Proposed Imbalance of Force Between the Vastus Medialis and Vastus Lateralis in People With Patellofemoral Pain. Journal of Orthopaedic and Sports Physical Therapy, 2015, 45, 360-365.	1.7	50
50	Shear wave elastography reveals different degrees of passive and active stiffness of the neck extensor muscles. European Journal of Applied Physiology, 2017, 117, 171-178.	1.2	50
51	Early detection of exercise-induced muscle damage using elastography. European Journal of Applied Physiology, 2017, 117, 2047-2056.	1.2	50
52	Reproducibility of eight lower limb muscles activity level in the course of an incremental pedaling exercise. Journal of Electromyography and Kinesiology, 2006, 16, 158-166.	0.7	49
53	Effect of power output on muscle coordination during rowing. European Journal of Applied Physiology, 2011, 111, 3017-3029.	1.2	49
54	Factors that influence muscle shear modulus during passive stretch. Journal of Biomechanics, 2015, 48, 3539-3542.	0.9	44

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55	Smoothing of electromyographic signals can influence the number of extracted muscle synergies. Clinical Neurophysiology, 2012, 123, 1895-1896.	0.7	43
56	Fatiguing handgrip exercise alters maximal force-generating capacity of plantar-flexors. European Journal of Applied Physiology, 2013, 113, 559-566.	1.2	43
57	Non-Muscular Structures Can Limit the Maximal Joint Range of Motion during Stretching. Sports Medicine, 2017, 47, 1925-1929.	3.1	43
58	Muscle Coordination and the Development of Musculoskeletal Disorders. Exercise and Sport Sciences Reviews, 2017, 45, 201-208.	1.6	41
59	Effects of Air-Pulsed Cryotherapy on Neuromuscular Recovery Subsequent to Exercise-Induced Muscle Damage. American Journal of Sports Medicine, 2013, 41, 1942-1951.	1.9	38
60	Passive stiffness of monoarticular lower leg muscles is influenced by knee joint angle. European Journal of Applied Physiology, 2018, 118, 585-593.	1.2	38
61	Neuromechanical coupling within the human triceps surae and its consequence on individual force sharing strategies. Journal of Experimental Biology, 2018, 221, .	0.8	38
62	Individuals have unique muscle activation signatures as revealed during gait and pedaling. Journal of Applied Physiology, 2019, 127, 1165-1174.	1.2	38
63	Effects of Duchenne muscular dystrophy on muscle stiffness and response to electrically-induced muscle contraction: A 12-month follow-up. Neuromuscular Disorders, 2017, 27, 214-220.	0.3	37
64	EMG Threshold Determination in Eight Lower Limb Muscles During Cycling Exercise: A Pilot Study. International Journal of Sports Medicine, 2006, 27, 456-462.	0.8	36
65	Muscle coordination during breaststroke swimming: Comparison between elite swimmers and beginners. Journal of Sports Sciences, 2016, 34, 1941-1948.	1.0	36
66	Changes in neuromuscular function after training by functional electrical stimulation. Muscle and Nerve, 2003, 28, 181-188.	1.0	35
67	Electromechanical delay in biceps brachii assessed by ultrafast ultrasonography. Muscle and Nerve, 2011, 43, 441-443.	1.0	35
68	Nature of the coupling between neural drive and force-generating capacity in the human quadriceps muscle. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151908.	1.2	35
69	Increased Upper Trapezius Muscle Stiffness in Overhead Athletes with Rotator Cuff Tendinopathy. PLoS ONE, 2016, 11, e0155187.	1.1	35
70	Cryotherapy induces an increase in muscle stiffness. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 260-266.	1.3	34
71	The potential role of sciatic nerve stiffness in the limitation of maximal ankle range of motion. Scientific Reports, 2018, 8, 14532.	1.6	34
72	Chronic effects of muscle and nerve-directed stretching on tissue mechanics. Journal of Applied Physiology, 2020, 129, 1011-1023.	1.2	34

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73	Effects of stroke injury on the shear modulus of the lower leg muscle during passive dorsiflexion. Journal of Applied Physiology, 2019, 126, 11-22.	1.2	33
74	Age-related differences in gastrocnemii muscles and Achilles tendon mechanical properties in vivo. Journal of Biomechanics, 2020, 112, 110067.	0.9	32
75	Coordination of hamstrings is individual specific and is related to motor performance. Journal of Applied Physiology, 2018, 125, 1069-1079.	1.2	31
76	Metabolic Recovery in Professional Road Cyclists: A 31P-MRS Study. Medicine and Science in Sports and Exercise, 2005, 37, 846-852.	0.2	29
77	Electromechanical delay measured during a voluntary contraction should be interpreted with caution. Muscle and Nerve, 2011, 44, 838-838.	1.0	29
78	Consensus for experimental design in electromyography (CEDE) project: Terminology matrix. Journal of Electromyography and Kinesiology, 2021, 59, 102565.	0.7	29
79	Elite Long Sprint Running. Medicine and Science in Sports and Exercise, 2008, 40, 1155-1162.	0.2	28
80	Hip abductor muscle activity during walking in individuals with gluteal tendinopathy. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 686-695.	1.3	28
81	Individual differences in the neural strategies to control the lateral and medial head of the quadriceps during a mechanically constrained task. Journal of Applied Physiology, 2021, 130, 269-281.	1.2	28
82	Effect of pain location on spatial reorganisation of muscle activity. Journal of Electromyography and Kinesiology, 2013, 23, 1413-1420.	0.7	27
83	A convolutional neural network to identify motor units from high-density surface electromyography signals in real time. Journal of Neural Engineering, 2021, 18, 056003.	1.8	27
84	Less common synaptic input between muscles from the same group allows for more flexible coordination strategies during a fatiguing task. Journal of Neurophysiology, 2022, 127, 421-433.	0.9	27
85	Optimized analysis of surface electromyograms of the scalenes during quiet breathing in humans. Respiratory Physiology and Neurobiology, 2006, 150, 75-81.	0.7	26
86	Selective training-induced thigh muscles hypertrophy in professional road cyclists. European Journal of Applied Physiology, 2006, 97, 591-597.	1.2	26
87	Thigh Muscle Activities in Elite Rowers During On-Water Rowing. International Journal of Sports Medicine, 2011, 32, 109-116.	0.8	26
88	Quantification of muscle co-contraction using supersonic shear wave imaging. Journal of Biomechanics, 2016, 49, 493-495.	0.9	26
89	Influence of low muscle activation levels on the ankle torque and muscle shear modulus during plantar flexor stretching. Journal of Biomechanics, 2019, 93, 111-117.	0.9	26
90	Surface EMG cross talk quantified at the motor unit population level for muscles of the hand, thigh, and calf. Journal of Applied Physiology, 2021, 131, 808-820.	1.2	25

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91	Task dependency of motor adaptations to an acute noxious stimulation. Journal of Neurophysiology, 2014, 111, 2298-2306.	0.9	24
92	Female striated urogenital sphincter contraction measured by shear wave elastography during pelvic floor muscle activation: Proof of concept and validation. Neurourology and Urodynamics, 2018, 37, 206-212.	0.8	24
93	Recovery Kinetics throughout Successive Bouts of Various Exercises in Elite Cyclists. Medicine and Science in Sports and Exercise, 2006, 38, 2151-2158.	0.2	23
94	Influence of stimulus intensity on electromechanical delay and its mechanisms. Journal of Electromyography and Kinesiology, 2013, 23, 51-55.	0.7	23
95	Between-muscle differences in the adaptation to experimental pain. Journal of Applied Physiology, 2014, 117, 1132-1140.	1.2	23
96	Relationship between preâ€exercise muscle stiffness and muscle damage induced by eccentric exercise. European Journal of Sport Science, 2019, 19, 508-516.	1.4	22
97	Hamstring muscle elasticity differs in specialized highâ€performance athletes. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 83-91.	1.3	22
98	Force-sharing within the Triceps Surae: An Achilles Heel in Achilles Tendinopathy. Medicine and Science in Sports and Exercise, 2020, 52, 1076-1087.	0.2	22
99	Bilateral differences in hamstring coordination in previously injured elite athletes. Journal of Applied Physiology, 2020, 128, 688-697.	1.2	22
100	Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix. Journal of Electromyography and Kinesiology, 2022, 64, 102656.	0.7	22
101	Deloading Tape Reduces Muscle Stress at Rest and during Contraction. Medicine and Science in Sports and Exercise, 2014, 46, 2317-2325.	0.2	21
102	Shear-wave velocity of the patellar tendon and quadriceps muscle is increased immediately after maximal eccentric exercise. European Journal of Applied Physiology, 2018, 118, 1715-1724.	1.2	21
103	Training-Induced Changes in Aerobic Aptitudes of Professional Basketball Players. International Journal of Sports Medicine, 2004, 25, 103-108.	0.8	20
104	Quantifying cervical and axioscapular muscle stiffness using shear wave elastography. Journal of Electromyography and Kinesiology, 2019, 48, 94-102.	0.7	20
105	New insights on contraction efficiency in patients with Duchenne muscular dystrophy. Journal of Applied Physiology, 2014, 117, 658-662.	1.2	19
106	Is synergistic organisation of muscle coordination altered in people with lateral epicondylalgia? A caseâ€“control study. Clinical Biomechanics, 2016, 35, 124-131.	0.5	19
107	Revealing the unique features of each individual's muscle activation signatures. Journal of the Royal Society Interface, 2021, 18, 20200770.	1.5	19
108	Reduced Maximal Force during Acute Anterior Knee Pain Is Associated with Deficits in Voluntary Muscle Activation. PLoS ONE, 2016, 11, e0161487.	1.1	19

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109	Quantity versus quality: Age-related differences in muscle volume, intramuscular fat, and mechanical properties in the triceps surae. Experimental Gerontology, 2021, 156, 111594.	1.2	19
110	Neuromuscular fatigue induced by alternating isometric contractions of the ankle plantar and dorsiflexors. Journal of Electromyography and Kinesiology, 2011, 21, 471-477.	0.7	18
111	Insight into motor adaptation to pain from between-leg compensation. European Journal of Applied Physiology, 2014, 114, 1057-1065.	1.2	18
112	Heterogeneity of passive elastic properties within the quadriceps femoris muscleâ€“tendon unit. European Journal of Applied Physiology, 2018, 118, 213-221.	1.2	18
113	Correlation networks of spinal motor neurons that innervate lower limb muscles during a multiâ€joint isometric task. Journal of Physiology, 2023, 601, 3201-3219.	1.3	18
114	Influence of chronic hypoxemia on peripheral muscle function and oxidative stress in humans. Clinical Physiology and Functional Imaging, 2004, 24, 75-84.	0.5	17
115	Electromyographic signs of neuromuscular fatigue are concomitant with further increase in ventilation during static handgrip. Clinical Physiology and Functional Imaging, 2004, 24, 25-32.	0.5	17
116	Does Stress within a Muscle Change in Response to an Acute Noxious Stimulus?. PLoS ONE, 2014, 9, e91899.	1.1	17
117	Reduced Active Muscle Stiffness after Intermittent Submaximal Isometric Contractions. Medicine and Science in Sports and Exercise, 2019, 51, 2603-2609.	0.2	17
118	Consequences of prolonged total body immersion in cold water on muscle performance and EMG activity. Pflugers Archiv European Journal of Physiology, 2006, 452, 91-101.	1.3	16
119	Reliability of new pulse CO-oximeter in victims of carbon monoxide poisoning. Undersea and Hyperbaric Medicine, 2008, 35, 107-11.	0.1	16
120	Effects of noxious stimulation to the back or calf muscles on gait stability. Journal of Biomechanics, 2015, 48, 4109-4115.	0.9	15
121	Lower limb muscle activity during table tennis strokes. Sports Biomechanics, 2018, 17, 1-11.	0.8	15
122	Effect of toe dorsiflexion on the regional distribution of plantar fascia shear wave velocity. Clinical Biomechanics, 2019, 61, 11-15.	0.5	15
123	Surface EMG to assess and quantify upper airway dilators activity during non-invasive ventilation. Respiratory Physiology and Neurobiology, 2011, 178, 341-345.	0.7	14
124	Influence of Experimental Pain on the Perception of Action Capabilities and Performance of a Maximal Single-Leg Hop. Journal of Pain, 2014, 15, 271.e1-271.e7.	0.7	14
125	Surface electromyogram of inspiratory muscles: a possible routine monitoring tool in the intensive care unit. British Journal of Anaesthesia, 2011, 106, 913-914.	1.5	13
126	Catapult effect in pole vaulting: Is muscle coordination determinant?. Journal of Electromyography and Kinesiology, 2012, 22, 145-152.	0.7	13

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127	Application of shearâ€wave elastography to estimate the stiffness of the male striated urethral sphincter during voluntary contractions. BJU International, 2017, 119, 619-625.	1.3	13
128	Age-related increase in muscle stiffness is muscle length dependent and associated with muscle force in senior females. BMC Musculoskeletal Disorders, 2021, 22, 829.	0.8	13
129	Systematic Review of Instrumented Measures of Skeletal Muscle Mechanical Properties: Evidence for the Application of Shear Wave Elastography with Children. Ultrasound in Medicine and Biology, 2020, 46, 1831-1840.	0.7	13
130	Can the electromyographic fatigue threshold be determined from superficial elbow flexor muscles during an isometric single-joint task?. European Journal of Applied Physiology, 2009, 107, 193-201.	1.2	12
131	Between-muscle differences in coactivation assessed using elastography. Journal of Electromyography and Kinesiology, 2018, 43, 88-94.	0.7	12
132	Effect of Ramadan intermittent fasting on body composition and neuromuscular performance in young athletes: a pilot study. Biological Rhythm Research, 2013, 44, 697-709.	0.4	11
133	Acute experimental hip muscle pain alters single-leg squat balance in healthy young adults. Gait and Posture, 2015, 41, 871-876.	0.6	11
134	Do individual differences in the distribution of activation between synergist muscles reflect individual strategies?. Experimental Brain Research, 2019, 237, 625-635.	0.7	11
135	Individual differences in the distribution of activation among the hamstring muscle heads during stiff-leg Deadlift and Nordic hamstring exercises. Journal of Sports Sciences, 2021, 39, 1-8.	1.0	11
136	New instrumented pedals to quantify 2D forces at the shoe-pedal interface in ecological conditions: preliminary study in elite track cyclists. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 89-90.	0.9	10
137	Simplified recording technique for the identification of inspiratory premotor potentials in humans. Respiratory Physiology and Neurobiology, 2010, 171, 67-70.	0.7	10
138	Changes in Motor Coordination Induced by Local Fatigue during a Sprint Cycling Task. Medicine and Science in Sports and Exercise, 2018, 50, 1394-1404.	0.2	10
139	Motor adaptations to local muscle pain during a bilateral cyclic task. Experimental Brain Research, 2017, 235, 607-614.	0.7	9
140	Altered muscle coordination when pedaling with independent cranks. Frontiers in Physiology, 2013, 4, 232.	1.3	8
141	Motor Adaptations to Pain during a Bilateral Plantarflexion Task: Does the Cost of Using the Non-Painful Limb Matter?. PLoS ONE, 2016, 11, e0154524.	1.1	8
142	Regional variation in lateral and medial gastrocnemius muscle fibre lengths obtained from diffusion tensor imaging. Journal of Anatomy, 2022, 240, 131-144.	0.9	8
143	Effect of Repetitive Biphasic Muscle Electrostimulation Training on Vertical Jump Performances in Female Volleyball Players. International Journal of Sport and Health Science, 2010, 8, 50-55.	0.0	7
144	The electromyographic fatigue threshold is not a valid tool to assess muscle function. Journal of Electromyography and Kinesiology, 2011, 21, 229-235.	0.7	7

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145	The nervous system does not compensate for an acute change in the balance of passive force between synergist muscles. Journal of Experimental Biology, 2017, 220, 3455-3463.	0.8	7
146	Patterns of upper limb muscle activation in children with unilateral spastic cerebral palsy: Variability and detection of deviations. Clinical Biomechanics, 2018, 59, 85-93.	0.5	7
147	Surface Electromyography to Study Muscle Coordination. , 2016, , 1-21.		7
148	Comparison of Recovery Strategies on Maximal Force-Generating Capacity and Electromyographic Activity Level of the Knee Extensor Muscles. Journal of Athletic Training, 2011, 46, 386-394.	0.9	6
149	Prediction of timeâ€toâ€exhaustion in the first dorsal interosseous muscle from early changes in surface electromyography parameters. Muscle and Nerve, 2012, 45, 835-840.	1.0	6
150	Analgesic effects of dyspnoea: â€œAir hungerâ€•does not inhibit the spinal nociception reflex in humans. Respiratory Physiology and Neurobiology, 2014, 190, 81-85.	0.7	6
151	A study of the immediate effects of glycerineâ€filled insoles, contoured prefabricated orthoses and flat insoles on singleâ€leg balance, gait patterns and perceived comfort in healthy adults. Journal of Foot and Ankle Research, 2015, 8, 47.	0.7	6
152	Motor adaptations to unilateral quadriceps fatigue during a bilateral pedaling task. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 1724-1738.	1.3	6
153	Influence of Isoinertial-Pneumatic Mixed Resistances on Forceâ€“Velocity Relationship. International Journal of Sports Physiology and Performance, 2017, 12, 385-392.	1.1	6
154	A Comparison of Visual and Mathematical Detection of the Electromyographic Threshold During Incremental Pedaling Exercise: A Pilot Study. Journal of Strength and Conditioning Research, 2006, 20, 704.	1.0	6
155	The effects of acute experimental hip muscle pain on dynamic single-limb balance performance in healthy middle-aged adults. Gait and Posture, 2016, 50, 201-206.	0.6	5
156	Shear modulus of multifidus and longissimus muscles measured using shear wave elastography correlates with muscle activity, but depends on image quality. Journal of Electromyography and Kinesiology, 2021, 56, 102505.	0.7	5
157	Non-uniform Effects of Nociceptive Stimulation to Motoneurones during Experimental Muscle Pain. Neuroscience, 2021, 463, 45-56.	1.1	5
158	Does different activation between the medial and the lateral gastrocnemius during walking translate into different fascicle behavior?. Journal of Experimental Biology, 2021, 224, .	0.8	5
159	IS THE EMG FATIGUE THRESHOLD A VALID TOOL TO ASSESS MUSCLE FUNCTION?. Medicine and Science in Sports and Exercise, 2010, 42, 629.	0.2	4
160	Effect of damaging exercise on electromechanical delay. Muscle and Nerve, 2016, 54, 136-141.	1.0	4
161	Translation and Cultural Adaptation of PROactive Instruments for COPD in French and Influence of Weather and Pollution on Its Difficulty Score . International Journal of COPD, 2020, Volume 15, 471-478.	0.9	4
162	Influence of transducer orientation on shear wave velocity measurements of the iliotibial band. Journal of Biomechanics, 2021, 120, 110346.	0.9	4

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163	Exploration of shear wave elastography measures of the iliotibial band during different tasks in pain-free runners. Physical Therapy in Sport, 2021, 50, 121-129.	0.8	4
164	Muscle architecture and shape changes in the gastrocnemii of active younger and older adults. Journal of Biomechanics, 2021, 129, 110823.	0.9	4
165	Inclusion of image-based in vivo experimental data into the Hill-type muscle model affects the estimation of individual force-sharing strategies during walking. Journal of Biomechanics, 2022, 135, 111033.	0.9	4
166	Spatial variation in mechanical properties along the sciatic and tibial nerves: An ultrasound shear wave elastography study. Journal of Biomechanics, 2022, 136, 111075.	0.9	4
167	Ã‰lectromyostimulation et rÃ©cupÃ©ration fonctionnelle dâ€™un muscle dÃ©nervÃ©. Science and Sports, 2003, 18, 253-263.	0.2	3
168	A Novel Method for Measuring Electromechanical Delay on the Vastus Medialis Obliquus and Vastus Lateralis. Ultrasound in Medicine and Biology, 2009, 35, 878.	0.7	3
169	Surface Electromyography to Study Muscle Coordination. , 2018, , 451-470.		3
170	Effects of a prior short simulated training session on the subsequent occurrence of ventilatory thresholds. Journal of Science and Medicine in Sport, 2009, 12, 273-279.	0.6	2
171	Recognition of muscle functional organisation in rowing by synergy identification. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 141-142.	0.9	2
172	Reciprocal aiming precision and central adaptations as a function of mechanical constraints. Journal of Electromyography and Kinesiology, 2011, 21, 968-973.	0.7	2
173	Effect of heavy isokinetic intermittent exercise on acute neuromuscular fatigue in knee extensors. Isokinetics and Exercise Science, 2012, 20, 121-128.	0.2	2
174	Functional behaviour of spinal muscles after training with an exercise device developed to recruit and train postural muscles. Gait and Posture, 2018, 66, 189-193.	0.6	2
175	Performance fatigability does not impact the inhibitory control. Neuroscience Research, 2019, 146, 48-53.	1.0	2
176	CaractÃ©ristiques physiques et physiologiques de cyclistes professionnels. Science and Sports, 2003, 18, 212-215.	0.2	1
177	Altered force-generating capacity is well-perceived regardless of the pain presence.. Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 1363-1371.	0.7	1
178	Strength capacity of lower-limb muscles in world-class cyclists: new insights into the limits of sprint cycling performance. Sports Biomechanics, 2022, , 1-18.	0.8	1
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