Alberto Rainoldi

List of Publications by Year
in descending order

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99 papers	4,456 citations	136950 32 h-index	123424 61 g-index
102 all docs	102 docs citations	102 times ranked	4166 citing authors

#	Article	IF	Citations
1	A method for positioning electrodes during surface EMG recordings in lower limb muscles. Journal of Neuroscience Methods, 2004, 134, 37-43.	2.5	448
2	Location of innervation zones of sternocleidomastoid and scalene muscles â€“ a basis for clinical and research electromyography applications. Clinical Neurophysiology, 2002, 113, 57-63.	1.5	257
3	Surface Electromyography for Noninvasive Characterization of Muscle. Exercise and Sport Sciences Reviews, 2001, 29, 20-25.	3.0	227
4	Atlas of Muscle Innervation Zones. , 2012, , .		224
5	An Electromyographic Analysis of the Deep Cervical Flexor Muscles in Performance of Craniocervical Flexion. Physical Therapy, 2003, 83, 899-906.	2.4	170
6	Geometrical factors in surface EMG of the vastus medialis and lateralis muscles. Journal of Electromyography and Kinesiology, 2000, 10, 327-336.	1.7	158
7	Repeatability of surface EMG variables during voluntary isometric contractions of the biceps brachii muscle. Journal of Electromyography and Kinesiology, 1999, 9, 105-119.	1.7	154
8	Myoelectric manifestations of sternocleidomastoid and anterior scalene muscle fatigue in chronic neck pain patients. Clinical Neurophysiology, 2003, 114, 488-495.	1.5	154
9	Surface EMG: The issue of electrode location. Journal of Electromyography and Kinesiology, 2009, 19, 719-726.	1.7	146
10	Compensation of the effect of sub-cutaneous tissue layers on surface EMG: a simulation study. Medical Engineering and Physics, 1999, 21, 487-497.	1.7	111
11	Repeatability of maximal voluntary force and of surface EMG variables during voluntary isometric contraction of quadriceps muscles in healthy subjects. Journal of Electromyography and Kinesiology, 2001, 11, 425-438.	1.7	97
12	University courses, eating problems and muscle dysmorphia: are there any associations?. Journal of Translational Medicine, 2014, 12, 221.	4.4	94
13	Neuromuscular efficiency of the sternocleidomastoid and anterior scalene muscles in patients with chronic neck pain. Disability and Rehabilitation, 2004, 26, 712-717.	1.8	89
14	Neck flexor muscle fatigue is side specific in patients with unilateral neck pain. European Journal of Pain, 2004, 8, 71-77.	2.8	87
15	Repeatability of surface EMG variables in the sternocleidomastoid and anterior scalene muscles. European Journal of Applied Physiology, 2002, 87, 542-549.	2.5	80
16	A bi-dimensional index for the selective assessment of myoelectric manifestations of peripheral and central muscle fatigue. Journal of Electromyography and Kinesiology, 2009, 19, 851-863.	1.7	79
17	Multichannel Surface EMG for the Non-Invasive Assessment of the Anal Sphincter Muscle. Digestion, 2004, 69, 112-122.	2.3	75
18	The relative age effect is larger in Italian soccer top-level youth categories and smaller in Serie A. PLoS ONE, 2018, 13, e0196253.	2.5	73

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19	Risk factors related to sleep bruxism in children: A systematic literature review. Archives of Oral Biology, 2015, 60, 1618-1624.	1.8	63
20	Differential responses of serum and salivary interleukin-6 to acute strenuous exercise. European Journal of Applied Physiology, 2005, 93, 679-686.	2.5	62
21	The contribution of postural balance analysis in older adult fallers: A narrative review. Journal of Bodywork and Movement Therapies, 2016, 20, 409-417.	1.2	56
22	Career Performance Trajectories in Track and Field Jumping Events from Youth to Senior Success: The Importance of Learning and Development. PLoS ONE, 2017, 12, e0170744.	2.5	53
23	Muscle fatigue induced by two different resistances: Elastic tubing versus weight machines. Journal of Electromyography and Kinesiology, 2011, 21, 954-959.	1.7	51
24	Innervation zone locations in 43 superficial muscles: Toward a standardization of electrode positioning. Muscle and Nerve, 2014, 49, 413-421.	2.2	50
25	Motor unit discharge rate and the estimated synaptic input to the vasti muscles is higher in open compared with closed kinetic chain exercise. Journal of Applied Physiology, 2019, 127, 950-958.	2.5	47
26	Differences in myoelectric manifestations of fatigue in sprinters and long distance runners. Physiological Measurement, 2008, 29, 331-340.	2.1	45
27	Corticotroph axis sensitivity after exercise: Comparison between elite athletes and sedentary subjects. Journal of Endocrinological Investigation, 2007, 30, 215-223.	3.3	44
28	Myoelectric manifestations of fatigue in vastus lateralis, medialis obliquus and medialis longus muscles. Journal of Electromyography and Kinesiology, 2008, 18, 1032-1037.	1.7	44
29	Prevention of Falling Risk in Elderly People: The Relevance of Muscular Strength and Symmetry of Lower Limbs in Postural Stability. Journal of Strength and Conditioning Research, 2011, 25, 567-574.	2.1	44
30	Muscle fiber conduction velocity and fractal dimension of EMG during fatiguing contraction of young and elderly active men. Physiological Measurement, 2016, 37, 162-174.	2.1	43
31	Influence of the sample collection method on salivary interleukinâ€“6 levels in resting and post-exercise conditions. European Journal of Applied Physiology, 2007, 101, 249-256.	2.5	42
32	Surface EMG alterations induced by underwater recording. Journal of Electromyography and Kinesiology, 2004, 14, 325-331.	1.7	41
33	Spatio-temporal evaluation of neck muscle activation during postural perturbations in healthy subjects. Journal of Electromyography and Kinesiology, 2004, 14, 463-474.	1.7	38
34	Relative Age Influences Performance of World-Class Track and Field Athletes Even in the Adulthood. Frontiers in Psychology, 2019, 10, 1395.	2.1	36
35	Elite national athletes reach their peak performance later than non-elite in sprints and throwing events. Journal of Science and Medicine in Sport, 2019, 22, 342-347.	1.3	34
36	Central motor control failure in fibromyalgia: a surface electromyography study. BMC Musculoskeletal Disorders, 2009, 10, 78.	1.9	31

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37	An electromyographic analysis of the deep cervical flexor muscles in performance of craniocervical flexion. Physical Therapy, 2003, 83, 899-906.	2.4	30
38	Muscular and metabolic responses to different Nordic walking techniques, when style matters. PLoS ONE, 2018, 13, e0195438.	2.5	29
39	Subjective versus Objective Measure of Physical Activity: A Systematic Review and Meta-Analysis of the Convergent Validity of the Physical Activity Questionnaire for Children (PAQ-C). International Journal of Environmental Research and Public Health, 2021, 18, 3413.	2.6	28
40	Relation among Perceived Weight Change, Sedentary Activities and Sleep Quality during COVID-19 Lockdown: A Study in an Academic Community in Northern Italy. International Journal of Environmental Research and Public Health, 2021, 18, 2943.	2.6	28
41	Rate of Force Development as an Indicator of Neuromuscular Fatigue: A Scoping Review. Frontiers in Human Neuroscience, 2021, 15, 701916.	2.0	28
42	Innervation zones location and optimal electrodes position of obliquus internus and obliquus externus abdominis muscles. Journal of Electromyography and Kinesiology, 2014, 24, 25-30.	1.7	26
43	Can continuous physical training counteract aging effect on myoelectric fatigue? A surface electromyography study application. Archives of Physical Medicine and Rehabilitation, 2003, 84, 513-517.	0.9	24
44	Motor unit firing rates and synchronisation affect the fractal dimension of simulated surface electromyogram during isometric/isotonic contraction of vastus lateralis muscle. Medical Engineering and Physics, 2016, 38, 1530-1533.	1.7	24
45	Severe COPD Alters Muscle Fiber Conduction Velocity During Knee Extensors Fatiguing Contraction. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2016, 13, 583-588.	1.6	24
46	Hand grip strength and anthropometric characteristics in Italian female national basketball teams. Journal of Sports Medicine and Physical Fitness, 2017, 57, 521-528.	0.7	24
47	Motivation toward dual career of Italian student-athletes enrolled in different university paths. Sport Sciences for Health, 2017, 13, 485-494.	1.3	23
48	Surface EMG signal alterations in Carpal Tunnel syndrome: a pilot study. European Journal of Applied Physiology, 2008, 103, 233-242.	2.5	22
49	The Application of sEMG in Aging: A Mini Review. Gerontology, 2015, 61, 477-484.	2.8	22
50	Fatigue and fibromyalgia syndrome: Clinical and neurophysiologic pattern. Best Practice and Research in Clinical Rheumatology, 2011, 25, 241-247.	3.3	21
51	Localized muscle vibration reverses quadriceps muscle hypotrophy and improves physical function: a clinical and electrophysiological study. International Journal of Rehabilitation Research, 2017, 40, 339-346.	1.3	21
52	The Daily Mile: 15 Minutes Running Improves the Physical Fitness of Italian Primary School Children. International Journal of Environmental Research and Public Health, 2019, 16, 3921.	2.6	21
53	The Adapted Italian Version of the Baller Identity Measurement Scale to Evaluate the Student-Athletesâ€™ Identity in Relation to Gender, Age, Type of Sport, and Competition Level. PLoS ONE, 2017, 12, e0169278.	2.5	21
54	Confounding factors in water EMG recordings: an approach to a definitive standard. Medical and Biological Engineering and Computing, 2006, 44, 348-351.	2.8	20

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55	Lack of correlation between sternocleidomastoid and scalene muscle fatigability and duration of symptoms in chronic neck pain patients. Neurophysiologie Clinique, 2004, 34, 159-165.	2.2	19
56	Do sweep rowers symmetrically activate their low back muscles during indoor rowing?. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e339-52.	2.9	19
57	Central and peripheral fatigue in knee and elbow extensor muscles after a longâ€distance crossâ€country ski race. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 945-955.	2.9	19
58	The Daily Mile Is Able to Improve Cardiorespiratory Fitness When Practiced Three Times a Week. International Journal of Environmental Research and Public Health, 2020, 17, 2095.	2.6	19
59	Myoelectric manifestations of fatigue during exposure to hypobaric hypoxia for 12 days. Muscle and Nerve, 2004, 30, 618-625.	2.2	18
60	Women show similar central and peripheral fatigue to men after halfâ€marathon[*]. European Journal of Sport Science, 2018, 18, 695-704.	2.7	18
61	Interlimb Asymmetries Identified Using the Rate of Torque Development in Ballistic Contraction Targeting Submaximal Torques. Frontiers in Physiology, 2018, 9, 1701.	2.8	18
62	Participation in a school-based walking intervention changes the motivation to undertake physical activity in middle-school students. PLoS ONE, 2018, 13, e0204098.	2.5	18
63	Electromyographic Manifestations of Fatigue Correlate With Pulmonary Function, 6-Minute Walk Test, and Time to Exhaustion in COPD. Respiratory Care, 2015, 60, 1295-1302.	1.6	17
64	Neuromuscular Fatigue Does Not Impair the Rate of Force Development in Ballistic Contractions of Submaximal Amplitudes. Frontiers in Physiology, 2018, 9, 1503.	2.8	17
65	Motor neuron degeneration, severe myopathy and TDP-43 increase in a transgenic pig model of SOD1-linked familiar ALS. Neurobiology of Disease, 2019, 124, 263-275.	4.4	17
66	Neural networks and logistic regression: Analysis of a case-control study on myocardial infarction. Journal of Clinical Epidemiology, 1997, 50, 1309-1310.	5.0	16
67	Interleukin-6 response to isokinetic exercise in elite athletes: relationships to adrenocortical function and to mechanical and myoelectric fatigue. European Journal of Applied Physiology, 2006, 98, 373-382.	2.5	16
68	Mechanical and myoelectric manifestations of fatigue in subjects with anorexia nervosa. Journal of Electromyography and Kinesiology, 2008, 18, 291-297.	1.7	16
69	Mechanical and EMG responses of the vastus lateralis and changes in biochemical variables to isokinetic exercise in endurance and power athletes. Journal of Sports Sciences, 2008, 26, 311-319.	2.0	15
70	High frequency vibration conditioning stimulation centrally reduces myoelectrical manifestation of fatigue in healthy subjects. Journal of Electromyography and Kinesiology, 2009, 19, 998-1004.	1.7	15
71	Feasibility of implementing an outdoor walking break in Italian middle schools. PLoS ONE, 2018, 13, e0202091.	2.5	15
72	Validation of the ADAMO Care Watch for step counting in older adults. PLoS ONE, 2018, 13, e0190753.	2.5	14

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73	Two methods for the measurement of voluntary contraction torque in the biceps brachii muscle. Medical Engineering and Physics, 1999, 21, 533-540.	1.7	13
74	Relationship among explosive power, body fat, fat free mass and pubertal development in youth soccer players: a preliminary study. Sport Sciences for Health, 2014, 10, 67-73.	1.3	12
75	Decrease of muscle fiber conduction velocity correlates with strength loss after an endurance run. Physiological Measurement, 2017, 38, 233-240.	2.1	12
76	Fatigue-induced dissociation between rate of force development and maximal force across repeated rapid contractions. Human Movement Science, 2017, 54, 267-275.	1.4	12
77	Effects of sedentary condition and longterm physical activity on postural balance and strength responses in elderly subjects. Sport Sciences for Health, 2014, 10, 135-141.	1.3	11
78	The acute effects of spinal manipulation on neuromuscular function in asymptomatic individuals: A preliminary study. Physical Therapy in Sport, 2015, 16, 121-126.	1.9	11
79	Differences in age-related fiber atrophy between vastii muscles of active subjects: a multichannel surface EMG study. Physiological Measurement, 2015, 36, 1591-1600.	2.1	11
80	Italian student-athletes only need a more effective daily schedule to support their dual career. Sport Sciences for Health, 2020, 16, 177-182.	1.3	10
81	The clinical use of macro and surface electromyography in diagnosis and follow-up of endocrine and drug-induced myopathies. Journal of Endocrinological Investigation, 2007, 30, 791-796.	3.3	9
82	A comparison between an ICT tool and a traditional physical measure for frailty evaluation in older adults. BMC Geriatrics, 2019, 19, 88.	2.7	9
83	Familiarity affects electrocortical power spectra during dance imagery, listening to different music genres: independent component analysis of Alpha and Beta rhythms. Sport Sciences for Health, 2017, 13, 535-548.	1.3	7
84	A kinematic analysis to evaluate the start techniquesâ€™ efficacy in swimming. Sport Sciences for Health, 2015, 11, 57-66.	1.3	6
85	Delta and alpha rhythms are modulated by the physical movement knowledge in acrobatic gymnastics: an EEG study in visual context. Sport Sciences for Health, 2018, 14, 563-569.	1.3	5
86	Effects of a Multicomponent Exercise Program on Prevalence and Severity of the Frailty Syndrome in a Sample of Italian Community-Dwelling Older Adults. Healthcare (Switzerland), 2022, 10, 911.	2.0	5
87	Higher Neuromuscular Manifestations of Fatigue in Dynamic than Isometric Pull-Up Tasks in Rock Climbers. Journal of Human Kinetics, 2015, 47, 31-39.	1.5	4
88	Oxygen consumption and muscle fatigue induced by whole-body electromyostimulation compared to equal-duration body weight circuit training. Sport Sciences for Health, 2017, 13, 121-130.	1.3	4
89	Relative age effect in males, but not females, undergraduate students of sport science. Sport Sciences for Health, 2017, 13, 349-353.	1.3	4
90	Actual and wished supports to promote a successful dual career according to Italian student-athletesâ€™ point of view. Sport Sciences for Health, 2020, 16, 625-634.	1.3	4

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91	Optimization of sEMG electrode positioning in vastus lateralis muscle during neuromuscular electrical stimulation. Sport Sciences for Health, 2014, 10, 253-260.	1.3	3
92	ADAMO INDOOR MOBILITY, PHYSICAL FRAILTY, AND AUTONOMY IN OLDER ADULTS: A MEDIATION MODEL. Innovation in Aging, 2019, 3, S681-S682.	0.1	3
93	The Cut-Off Value for Classifying Active Italian Children Using the Corresponding National Version of the Physical Activity Questionnaire. Sports, 2022, 10, 61.	1.7	3
94	Strength Asymmetries Are Muscle-Specific and Metric-Dependent. International Journal of Environmental Research and Public Health, 2022, 19, 8495.	2.6	3
95	Is fatigue a muscular phenomenon in Parkinson's disease? Implications for rehabilitation. European Journal of Physical and Rehabilitation Medicine, 2021, 57, 691-700.	2.2	2
96	Sport, how people choose it: A network analysis approach. European Journal of Sport Science, 2015, 15, 414-423.	2.7	1
97	Neuromuscular efficiency in fibromyalgia is improved by hyperbaric oxygen therapy: looking inside muscles by means of surface electromyography. Clinical and Experimental Rheumatology, 2019, 37 Suppl 116, 75-80.	0.8	1
98	Features of the Two-Dimensional sEMG Signal: EMG Feature Imaging. , 2012, , 61-69.		0
99	Lower fatigability of locomotor than non-locomotor muscles in endurance runners. Sport Sciences for Health, 2016, 12, 369-375.	1.3	0