

# Andrea Macaluso

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

2,583  
citations

236612

25  
h-index

205818

48  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Muscle strength, power and adaptations to resistance training in older people. <i>European Journal of Applied Physiology</i> , 2004, 91, 450-472.	1.2	422
2	Contractile muscle volume and agonist-antagonist coactivation account for differences in torque between young and older women. <i>Muscle and Nerve</i> , 2002, 25, 858-863.	1.0	262
3	Muscle function in elite master weightlifters. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1199-1206.	0.2	149
4	Determinants of maximal instantaneous muscle power in women aged 50-75 years. <i>European Journal of Applied Physiology</i> , 1998, 78, 59-64.	1.2	92
5	Cost of walking and locomotor impairment. <i>Journal of Electromyography and Kinesiology</i> , 1999, 9, 149-157.	0.7	84
6	Cycling as a novel approach to resistance training increases muscle strength, power, and selected functional abilities in healthy older women. <i>Journal of Applied Physiology</i> , 2003, 95, 2544-2553.	1.2	81
7	The effect of an active warm-up on surface EMG and muscle performance in healthy humans. <i>European Journal of Applied Physiology</i> , 2003, 89, 509-513.	1.2	79
8	Effect of power, pedal rate, and force on average muscle fiber conduction velocity during cycling. <i>Journal of Applied Physiology</i> , 2004, 97, 2035-2041.	1.2	77
9	Comparison between young and older women in explosive power output and its determinants during a single leg-press action after optimisation of load. <i>European Journal of Applied Physiology</i> , 2003, 90, 458-463.	1.2	69
10	Differences between young and older women in maximal force, force fluctuations, and surface emg during isometric knee extension and elbow flexion. <i>Muscle and Nerve</i> , 2004, 30, 626-635.	1.0	69
11	The neurophysiology of central and peripheral fatigue during sub-maximal lower limb isometric contractions. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 135.	1.0	67
12	High-Intensity Interval Training Versus Moderate-Intensity Continuous Training in the Prevention/Management of Cardiovascular Disease. <i>Cardiology in Review</i> , 2016, 24, 273-281.	0.6	58
13	Electromyogram changes during sustained contraction after resistance training in women in their 3rd and 8th decades. <i>European Journal of Applied Physiology</i> , 2000, 82, 418-424.	1.2	43
14	Correlation of average muscle fiber conduction velocity measured during cycling exercise with myosin heavy chain composition, lactate threshold, and VO <sub>2</sub> max. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 393-400.	0.7	43
15	Effects of altered muscle temperature on neuromuscular properties in young and older women. <i>European Journal of Applied Physiology</i> , 2010, 108, 451-458.	1.2	38
16	Central and Peripheral Neuromuscular Adaptations to Ageing. <i>Journal of Clinical Medicine</i> , 2020, 9, 741.	1.0	36
17	Return to sport decisions after an acute lateral ankle sprain injury: introducing the PAASS framework – an international multidisciplinary consensus. <i>British Journal of Sports Medicine</i> , 2021, 55, bjsports-2021-104087.	3.1	36
18	Deficit in knee extension strength following anterior cruciate ligament reconstruction is explained by a reduced neural drive to the vasti muscles. <i>Journal of Physiology</i> , 2021, 599, 5103-5120.	1.3	35

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19	Rehabilitation of walking for paraplegic patients by means of a treadmill. <i>Spinal Cord</i> , 1997, 35, 383-385.	0.9	34
20	Speed training with body weight unloading improves walking energy cost and maximal speed in 75- to 85-year-old healthy women. <i>Journal of Applied Physiology</i> , 2007, 103, 1598-1603.	1.2	34
21	Association between Physical Activity Levels and Physiological Factors Underlying Mobility in Young, Middle-Aged and Older Individuals Living in a City District. <i>PLoS ONE</i> , 2013, 8, e74227.	1.1	32
22	Charcot-Marie-Tooth 1A patients with low level of impairment have a higher energy cost of walking than healthy individuals. <i>Neuromuscular Disorders</i> , 2011, 21, 52-57.	0.3	31
23	Ambulation training of neurological patients on the treadmill with a new Walking Assistance and Rehabilitation Device (WARD). <i>Spinal Cord</i> , 1999, 37, 336-344.	0.9	30
24	An anterior ankle-foot orthosis improves walking economy in Charcot-Marie-Tooth type 1A patients. <i>Prosthetics and Orthotics International</i> , 2014, 38, 387-392.	0.5	29
25	Asymmetrical Lower Extremity Loading Early After Anterior Cruciate Ligament Reconstruction Is a Significant Predictor of Asymmetrical Loading at the Time of Return to Sport. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2016, 95, 248-255.	0.7	29
26	Control of head stability during gait initiation in young and older women. <i>Journal of Electromyography and Kinesiology</i> , 2006, 16, 603-610.	0.7	26
27	Neuromuscular Electrical Stimulation Superimposed on Movement Early after ACL Surgery. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 407-416.	0.2	26
28	Physiological costs and temporo-spatial parameters of walking on a treadmill vary with body weight unloading and speed in both healthy young and older women. <i>European Journal of Applied Physiology</i> , 2007, 100, 293-299.	1.2	24
29	Mechanisms of head stability during gait initiation in young and older women: A neuro-mechanical analysis. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 103-110.	0.7	24
30	Neuromuscular function after muscle fatigue in Charcot-Marie-Tooth type 1A patients. <i>Muscle and Nerve</i> , 2012, 46, 434-439.	1.0	23
31	Effects of early whole-body vibration treatment on knee neuromuscular function and postural control after anterior cruciate ligament reconstruction: A randomized controlled trial. <i>Journal of Rehabilitation Medicine</i> , 2016, 48, 880-886.	0.8	23
32	Muscle fibre conduction velocity during a 30-s Wingate anaerobic test. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 418-422.	0.7	22
33	Acute Effect of Whole-Body Vibration at Optimal Frequency on Muscle Power Output of the Lower Limbs in Older Women. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2013, 92, 797-804.	0.7	21
34	Alpha Band Cortico-Muscular Coherence Occurs in Healthy Individuals during Mechanically-Induced Tremor. <i>PLoS ONE</i> , 2014, 9, e115012.	1.1	21
35	Is the coactivation of biceps femoris during isometric knee extension affected by adiposity in healthy young humans?. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 425-431.	0.7	20
36	The role of the prefrontal cortex in the development of muscle fatigue in Charcot-Marie-Tooth 1A patients. <i>Neuromuscular Disorders</i> , 2014, 24, 516-523.	0.3	20

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37	Comparison in Joint-Position Sense and Muscle Coactivation Between Anterior Cruciate Ligament-Deficient and Healthy Individuals. <i>Journal of Sport Rehabilitation</i> , 2016, 25, 64-69.	0.4	20
38	Amount and intensity of daily living activities in Charcot-Marie-Tooth 1A patients. <i>Brain and Behavior</i> , 2014, 4, 14-20.	1.0	16
39	Application of the Sit-to-Stand Movement for the Early Assessment of Functional Deficits in Patients Who Underwent Anterior Cruciate Ligament Reconstruction. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, 189-199.	0.7	16
40	Early compensatory and anticipatory postural adjustments following anterior cruciate ligament reconstruction. <i>European Journal of Applied Physiology</i> , 2015, 115, 1441-1451.	1.2	15
41	Effect of whole body vibration frequency on neuromuscular activity in acl-deficient and healthy males. <i>Biology of Sport</i> , 2015, 32, 243-247.	1.7	14
42	Timing of Muscle Activation Is Altered During Single-Leg Landing Tasks After Anterior Cruciate Ligament Reconstruction at the Time of Return to Sport. <i>Clinical Journal of Sport Medicine</i> , 2020, 30, e186-e193.	0.9	14
43	Whole body vibration of different frequencies inhibits H-reflex but does not affect voluntary activation. <i>Human Movement Science</i> , 2018, 62, 34-40.	0.6	14
44	Older Age Is Associated with Lower Optimal Vibration Frequency in Lower-Limb Muscles During Whole-Body Vibration. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2015, 94, 522-529.	0.7	13
45	Muscle fiber conduction velocity in the vastus lateralis and medialis muscles of soccer players after ACL reconstruction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1976-1984.	1.3	13
46	Relationship between performance-based and laboratory tests for lower-limb muscle strength and power assessment in healthy older women. <i>Journal of Sports Sciences</i> , 2008, 26, 1431-1436.	1.0	12
47	Modulation of spinal excitability following neuromuscular electrical stimulation superimposed to voluntary contraction. <i>European Journal of Applied Physiology</i> , 2020, 120, 2105-2113.	1.2	12
48	Non-specific chronic low back pain elicits kinematic and neuromuscular changes in walking and gait termination. <i>Gait and Posture</i> , 2021, 84, 238-244.	0.6	12
49	Comparison of power and EMG during 6-s all-out cycling between young and older women. <i>Journal of Sports Sciences</i> , 2012, 30, 1311-1321.	1.0	11
50	Stepping forward, stepping backward: a movement-related cortical potential study unveils distinctive brain activities. <i>Behavioural Brain Research</i> , 2020, 388, 112663.	1.2	11
51	Age differences in anticipatory and executory mechanisms of gait initiation following unexpected balance perturbations. <i>European Journal of Applied Physiology</i> , 2021, 121, 465-478.	1.2	11
52	Ergonomy of paraplegic patients working with a reciprocating gait orthosis. <i>Spinal Cord</i> , 1995, 33, 458-463.	0.9	10
53	Reliability of the intrinsic and extrinsic patterns of level walking in older women. <i>Gait and Posture</i> , 2007, 26, 386-392.	0.6	10
54	Return to Sport after Anatomic and Reverse Total Shoulder Arthroplasty in Elderly Patients: A Systematic Review and Meta-Analysis. <i>Journal of Clinical Medicine</i> , 2020, 9, 1576.	1.0	10

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55	Comparison of neural activation and energy cost during treadmill walking with body weight unloading between frail and healthy older women. <i>Gait and Posture</i> , 2011, 33, 356-360.	0.6	9
56	The effects of isometric resistance training on stretch reflex induced tremor in the knee extensor muscles. <i>Journal of Applied Physiology</i> , 2013, 114, 1647-1656.	1.2	9
57	Neuromechanics of repeated stepping with external loading in young and older women. <i>European Journal of Applied Physiology</i> , 2014, 114, 983-994.	1.2	9
58	Contribution of cognitive functions to postural control in anticipating self-paced and externally-triggered lower-limb perturbations. <i>Behavioural Brain Research</i> , 2019, 366, 56-66.	1.2	9
59	Comparison of walking energy cost between an anterior and a posterior ankle-foot orthosis in people with foot drop. <i>Journal of Rehabilitation Medicine</i> , 2014, 46, 768-772.	0.8	7
60	Activation of Neck and Low-Back Muscles Is Reduced with the Use of a Neck Balance System Together with a Lumbar Support in Urban Drivers. <i>PLoS ONE</i> , 2015, 10, e0141031.	1.1	7
61	Upper body accelerations during planned gait termination in young and older women. <i>Journal of Biomechanics</i> , 2017, 65, 138-144.	0.9	7
62	Postural Adjustments Following ACL Rupture and Reconstruction: A Longitudinal Study. <i>International Journal of Sports Medicine</i> , 2018, 39, 549-554.	0.8	7
63	Neuromechanical response of the upper body to unexpected perturbations during gait initiation in young and older adults. <i>Aging Clinical and Experimental Research</i> , 2021, 33, 909-919.	1.4	7
64	Early Superimposed NMES Training is Effective to Improve Strength and Function Following ACL Reconstruction with Hamstring Graft regardless of Tendon Regeneration. <i>Journal of Sports Science and Medicine</i> , 2022, 21, 91-103.	0.7	7
65	Do Current Methods of Strength Testing for the Return to Sport After Injuries Really Address Functional Performance?. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2012, 91, 458-460.	0.7	6
66	Analysis of the effects of mechanically induced tremor on EEG-EMG coherence using wavelet and partial directed coherence. , 2013, , .		6
67	Age-related changes in upper body contribution to braking forward locomotion in women. <i>Gait and Posture</i> , 2019, 68, 81-87.	0.6	6
68	Local vibration inhibits H-reflex but does not compromise manual dexterity and does not increase tremor. <i>Human Movement Science</i> , 2017, 55, 221-228.	0.6	5
69	Neuromechanical response to passive cyclic loading of the ACL in non-professional soccer players: A pilot study. <i>Physical Therapy in Sport</i> , 2018, 32, 187-193.	0.8	5
70	Criteria for Return-to-Play (RTP) after Rotator Cuff Surgery: A Systematic Review of Literature. <i>Journal of Clinical Medicine</i> , 2022, 11, 2244.	1.0	5
71	Validity and Reliability of an Alternative Method for Measuring Power Output During Six-Second All-out Cycling. <i>Journal of Applied Biomechanics</i> , 2014, 30, 598-603.	0.3	4
72	Physiological profile of high intensity functional training athletes. <i>Journal of Human Sport and Exercise</i> , 2021, 16, .	0.2	4

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73	The Effect of an Orthotic Device for Balancing Neck Muscles During Daily Office Tasks. Human Factors, 2019, 61, 722-735.	2.1	3
74	No Relationship Between Preoperative and Early Postoperative Strength After ACL Reconstruction. Journal of Sport Rehabilitation, 2020, 29, 583-587.	0.4	3
75	Quadriceps muscle compensatory activations are delayed following anterior cruciate ligament reconstruction using hamstring tendon graft. Knee, 2020, 27, 300-307.	0.8	3
76	Altered Knee Laxity and Stiffness in Response to a Soccer Match Simulation in Players Returning to Sport Within 12 Months After Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2021, 49, 2150-2158.	1.9	3
77	Smooth pursuits decrease balance control during locomotion in young and older healthy females. Experimental Brain Research, 2017, 235, 2661-2668.	0.7	3
78	Biomechanics of the Hammer Throw: Narrative Review. Frontiers in Sports and Active Living, 2022, 4, 853536.	0.9	3
79	Effects of a novel neck balance system on neuromuscular fatigue of neck muscles during repeated flexions and extensions. Human Factors and Ergonomics in Manufacturing, 2018, 28, 231-237.	1.4	1
80	Physiological comparison between competitive and beginner high intensity functional training athletes. Journal of Human Sport and Exercise, 2022, 17, .	0.2	1
81	A Countermovement Jump for the Midterm Assessment of Force and Power Exertion After Anterior Cruciate Ligament Reconstruction. American Journal of Physical Medicine and Rehabilitation, 2022, 101, 1007-1013.	0.7	1
82	Timing of Muscle Activation is Altered During Single-Leg Landing Tasks Following ACL Reconstruction at the Time of Return to Sport. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2017, 33, e88.	1.3	0