Marco Narici

List of Publications by Year
in descending order

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Version: 2024-02-01

89	8,167	76326 40	49909 87
papers	citations	h-index	g-index

90	90	90	8608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrasonographic assessment of human skeletal muscle size. European Journal of Applied Physiology, 2004, 91, 116-118.	2.5	918
2	Sarcopenia, Dynapenia, and the Impact of Advancing Age on Human Skeletal Muscle Size and Strength; a Quantitative Review. Frontiers in Physiology, 2012, 3, 260.	2.8	898
3	Sarcopenia: characteristics, mechanisms and functional significance. British Medical Bulletin, 2010, 95, 139-159.	6.9	553
4	Effects of a Vitamin D and Leucine-Enriched Whey Protein Nutritional Supplement on Measures of Sarcopenia in Older Adults, the PROVIDE Study: A Randomized, Double-Blind, Placebo-Controlled Trial. Journal of the American Medical Directors Association, 2015, 16, 740-747.	2.5	485
5	Impact of sedentarism due to the COVIDâ€19 home confinement on neuromuscular, cardiovascular and metabolic health: Physiological and pathophysiological implications and recommendations for physical and nutritional countermeasures. European Journal of Sport Science, 2021, 21, 614-635.	2.7	287
6	Calf muscle-tendon properties and postural balance in old age. Journal of Applied Physiology, 2006, 100, 2048-2056.	2.5	284
7	The temporal responses of protein synthesis, gene expression and cell signalling in human quadriceps muscle and patellar tendon to disuse. Journal of Physiology, 2007, 585, 241-251.	2.9	267
8	Skeletal Muscle Remodeling in Response to Eccentric vs. Concentric Loading: Morphological, Molecular, and Metabolic Adaptations. Frontiers in Physiology, 2017, 8, 447.	2.8	226
9	Time course of muscular, neural and tendinous adaptations to 23 day unilateral lowerâ€limb suspension in young men. Journal of Physiology, 2007, 583, 1079-1091.	2.9	224
10	Differential adaptations to eccentric versus conventional resistance training in older humans. Experimental Physiology, 2009, 94, 825-833.	2.0	216
11	Muscle Ultrasound and Sarcopenia in Older Individuals: A Clinical Perspective. Journal of the American Medical Directors Association, 2017, 18, 290-300.	2.5	212
12	Effect of 5Âweeks horizontal bed rest on human muscle thickness and architecture of weight bearing and non-weight bearing muscles. European Journal of Applied Physiology, 2008, 104, 401-407.	2.5	171
13	Human skeletal muscle architecture studied in vivo by non-invasive imaging techniques: functional significance and applications. Journal of Electromyography and Kinesiology, 1999, 9, 97-103.	1.7	159
14	A validation of the application of D₂O stable isotope tracer techniques for monitoring day-to-day changes in muscle protein subfraction synthesis in humans. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E571-E579.	3.5	159
15	The interplay of central and peripheral factors in limiting maximal O2consumption in man after prolonged bed rest. Journal of Physiology, 1997, 501, 677-686.	2.9	148
16	Strength training alters the viscoelastic properties of tendons in elderly humans. Muscle and Nerve, 2003, 28, 74-81.	2.2	148
17	Muscles in microgravity: from fibres to human motion. Journal of Biomechanics, 2003, 36, 403-412.	2.1	134
18	Positive energy balance is associated with accelerated muscle atrophy and increased erythrocyte glutathione turnover during 5 wk of bed rest. American Journal of Clinical Nutrition, 2008, 88, 950-958.	4.7	129

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19	Greater loss in muscle mass and function but smaller metabolic alterations in older compared with younger men following 2 wk of bed rest and recovery. Journal of Applied Physiology, 2016, 120, 922-929.	2.5	114
20	Preservation of eccentric strength in older adults: Evidence, mechanisms and implications for training and rehabilitation. Experimental Gerontology, 2010, 45, 400-409.	2.8	113
21	Muscle structural assembly and functional consequences. Journal of Experimental Biology, 2016, 219, 276-284.	1.7	104
22	Plasticity of the Muscle-Tendon Complex With Disuse and Aging. Exercise and Sport Sciences Reviews, 2007, 35, 126-134.	3.0	103
23	Assessment of maximal handgrip strength: how many attempts are needed?. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 466-474.	7.3	103
24	Muscle Architecture Assessment: Strengths, Shortcomings and New Frontiers of in Vivo Imaging Techniques. Ultrasound in Medicine and Biology, 2018, 44, 2492-2504.	1.5	96
25	Neuromuscular and balance responses to flywheel inertial versus weight training in older persons. Journal of Biomechanics, 2008, 41, 3133-3138.	2.1	85
26	Handgrip Strength Cannot Be Assumed a Proxy for Overall Muscle Strength. Journal of the American Medical Directors Association, 2018, 19, 703-709.	2.5	82
27	Coupling between skeletal muscle fiber size and capillarization is maintained during healthy aging. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 647-659.	7.3	71
28	Sarcolab pilot study into skeletal muscleâ€™s adaptation to long-term spaceflight. Npj Microgravity, 2018, 4, 18.	3.7	62
29	Effect of androgenic-anabolic steroids and heavy strength training on patellar tendon morphological and mechanical properties. Journal of Applied Physiology, 2013, 115, 84-89.	2.5	60
30	Protein Carbonylation and Heat Shock Proteins in Human Skeletal Muscle: Relationships to Age and Sarcopenia. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 174-181.	3.6	57
31	Early structural remodeling and deuterium oxide-derived protein metabolic responses to eccentric and concentric loading in human skeletal muscle. Physiological Reports, 2015, 3, e12593.	1.7	57
32	Neuromuscular junction instability and altered intracellular calcium handling as early determinants of force loss during unloading in humans. Journal of Physiology, 2021, 599, 3037-3061.	2.9	55
33	Plantarflexor Muscleâ€“Tendon Properties are Associated With Mobility in Healthy Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 996-1002.	3.6	54
34	Alterations of Extracellular Matrix Mechanical Properties Contribute to Age-Related Functional Impairment of Human Skeletal Muscles. International Journal of Molecular Sciences, 2020, 21, 3992.	4.1	54
35	Assessing sarcopenia with vastus lateralis muscle ultrasound: an operative protocol. Aging Clinical and Experimental Research, 2018, 30, 1437-1443.	2.9	53
36	Structure and function of human muscle fibres and muscle proteome in physically active older men. Journal of Physiology, 2017, 595, 4823-4844.	2.9	52

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37	Maximal instantaneous muscular power after prolonged bed rest in humans. Journal of Applied Physiology, 2001, 90, 431-435.	2.5	51
38	Physiological and functional evaluation of healthy young and older men and women: design of the European MyoAge study. Biogerontology, 2013, 14, 325-337.	3.9	50
39	Tensiomyography detects early hallmarks of bed-rest-induced atrophy before changes in muscle architecture. Journal of Applied Physiology, 2019, 126, 815-822.	2.5	48
40	Dysregulation of C-X-C motif ligand 10 during aging and association with cognitive performance. Neurobiology of Aging, 2018, 63, 54-64.	3.1	47
41	Association between osteocalcin and cognitive performance in healthy older adults. Age and Ageing, 2016, 45, 844-849.	1.6	46
42	Costamere remodeling with muscle loading and unloading in healthy young men. Journal of Anatomy, 2013, 223, 525-536.	1.5	44
43	Implementing Ultrasound Imaging for the Assessment of Muscle and Tendon Properties in Elite Sports: Practical Aspects, Methodological Considerations and Future Directions. Sports Medicine, 2021, 51, 1151-1170.	6.5	44
44	Loss of maximal explosive power of lower limbs after 2Âweeks of disuse and incomplete recovery after retraining in older adults. Journal of Physiology, 2018, 596, 647-665.	2.9	43
45	Nonuniform loss of muscle strength and atrophy during bed rest: a systematic review. Journal of Applied Physiology, 2021, 131, 194-206.	2.5	40
46	Ageâ€related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 973-982.	7.3	38
47	Human skeletal muscle fibre contractile properties and proteomic profile: adaptations to 3Âweeks of unilateral lower limb suspension and active recovery. Journal of Physiology, 2015, 593, 5361-5385.	2.9	37
48	Quantification of Internal Stress-Strain Fields in Human Tendon: Unraveling the Mechanisms that Underlie Regional Tendon Adaptations and Mal-Adaptations to Mechanical Loading and the Effectiveness of Therapeutic Eccentric Exercise. Frontiers in Physiology, 2017, 8, 91.	2.8	35
49	Muscle and Tendon Contributions to Reduced Rate of Torque Development in Healthy Older Males. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 539-545.	3.6	33
50	Grip strength performance from 9431 participants of the GenoFit study: normative data and associated factors. GeroScience, 2021, 43, 2533-2546.	4.6	33
51	Anabolic resistance assessed by oral stable isotope ingestion following bed rest in young and older adult volunteers: Relationships with changes in muscle mass. Clinical Nutrition, 2017, 36, 1420-1426.	5.0	31
52	Moderate Intensity Resistive Training Reduces Oxidative Stress and Improves Muscle Mass and Function in Older Individuals. Antioxidants, 2019, 8, 431.	5.1	29
53	Neuromuscular Junction Aging: A Role for Biomarkers and Exercise. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 576-585.	3.6	28
54	Muscle and tendon adaptations to moderate load eccentric vs. concentric resistance exercise in young and older males. GeroScience, 2021, 43, 1567-1584.	4.6	28

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55	Contribution of calf muscleâ€“tendon properties to single-leg stance ability in the absence of visual feedback in relation to ageing. Gait and Posture, 2007, 26, 343-348.	1.4	26
56	Fascicle length does increase in response to longitudinal resistance training and in a contraction-mode specific manner. SpringerPlus, 2016, 5, 94.	1.2	26
57	Eccentric Exercise and the Critically Ill Patient. Frontiers in Physiology, 2017, 8, 120.	2.8	26
58	Bouncing Back! Counteracting Muscle Aging With Plyometric Muscle Loading. Frontiers in Physiology, 2019, 10, 178.	2.8	26
59	The Aging Muscle in Experimental Bed Rest: A Systematic Review and Meta-Analysis. Frontiers in Nutrition, 2021, 8, 633987.	3.7	26
60	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. Age and Ageing, 2018, 47, iv1-iv19.	1.6	25
61	Peripheral impairments of oxidative metabolism after a 10â€day bed rest are upstream of mitochondrial respiration. Journal of Physiology, 2021, 599, 4813-4829.	2.9	22
62	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
63	The Time-Course of Changes in Muscle Mass, Architecture and Power During 6 Weeks of Plyometric Training. Frontiers in Physiology, 2020, 11, 946.	2.8	21
64	In-Vivo Measurement of Muscle Tension: Dynamic Properties of the MC Sensor during Isometric Muscle Contraction. Sensors, 2014, 14, 17848-17863.	3.8	20
65	Relationship of changes in strain rate indices estimated from velocityâ€encoded <scp>MR</scp> imaging to loss of muscle force following disuse atrophy. Magnetic Resonance in Medicine, 2018, 79, 912-922.	3.0	20
66	Plasma C-Terminal Agrin Fragment as an Early Biomarker for Sarcopenia: Results From the GenoFit Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 2090-2096.	3.6	17
67	Role of the Extracellular Matrix in Loss of Muscle Force With Age and Unloading Using Magnetic Resonance Imaging, Biochemical Analysis, and Computational Models. Frontiers in Physiology, 2020, 11, 626.	2.8	16
68	Plasma neurofilament light levels associate with muscle mass and strength in middleâ€aged and older adults: findings from GenoFit. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 1811-1820.	7.3	15
69	Maximal explosive power of the lower limbs before and after 35Âdays of bed rest under different diet energy intake. European Journal of Applied Physiology, 2015, 115, 429-436.	2.5	14
70	Muscle Hypertrophy and Architectural Changes in Response to Eight-Week Neuromuscular Electrical Stimulation Training in Healthy Older People. Life, 2020, 10, 184.	2.4	14
71	Remodeling the Skeletal Muscle Extracellular Matrix in Older Ageâ€"Effects of Acute Exercise Stimuli on Gene Expression. International Journal of Molecular Sciences, 2020, 21, 7089.	4.1	14
72	Effects of 14 days of bed rest and following physical training on metabolic cost, mechanical work, and efficiency during walking in older and young healthy males. PLoS ONE, 2018, 13, e0194291.	2.5	13

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73	Are muscle fibres of body builders intrinsically weaker? A comparison with single fibres of agedâ€matched controls. Acta Physiologica, 2021, 231, e13557.	3.8	13
74	Computerized cognitive training and brain derived neurotrophic factor during bed rest: mechanisms to protect individual during acute stress. Aging, 2017, 9, 393-407.	3.1	11
75	Longitudinal hypertrophic and transcriptional responses to highâ€load eccentricâ€concentric vs concentric training in males. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 2101-2115.	2.9	11
76	Peripheral nerve adaptations to 10 days of horizontal bed rest in healthy young adult males. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R495-R503.	1.8	10
77	Neural Activation During Submaximal Contractions Seems More Reflective of Neuromuscular Ageing than Maximal Voluntary Activation. Frontiers in Aging Neuroscience, 2016, 8, 19.	3.4	9
78	Active older dancers have lower C-terminal Agrin fragment concentration, better balance and gait performance than sedentary peers. Experimental Gerontology, 2021, 153, 111469.	2.8	9
79	Early Changes of Hamstrings Morphology and Contractile Properties during 10 d of Complete Inactivity. Medicine and Science in Sports and Exercise, 2022, 54, 1346-1354.	0.4	9
80	The Anticipation of Gravity in Human Ballistic Movement. Frontiers in Physiology, 2021, 12, 614060.	2.8	8
81	Tendon Adaptations to Eccentric Exercise and the Implications for Older Adults. Journal of Functional Morphology and Kinesiology, 2019, 4, 60.	2.4	7
82	Magnetic resonance imaging based muscle strain rate mapping during eccentric contraction to study effects of unloading induced by unilateral limb suspension. European Journal of Translational Myology, 2020, 30, 139-143.	1.7	7
83	Decrease in work rate in order to keep a constant heart rate: biomarker of exercise intolerance following a 10-day bed rest. Journal of Applied Physiology, 2022, 132, 1569-1579.	2.5	3
84	Neuromuscular deconditioning with disuse: should we live more on our nerves?. Journal of Physiology, 2017, 595, 4127-4127.	2.9	2
85	Effects Of 10-days Bed-rest On Nitric Oxide Metabolites And Microvascular Function Assessed By Near-infrared Spectroscopy. Medicine and Science in Sports and Exercise, 2020, 52, 781-781.	0.4	2
86	Early Biomarkers of Altered Renal Function and Orthostatic Intolerance During 10-day Bedrest. Frontiers in Physiology, 2022, 13, 858867.	2.8	2
87	The Impairment Of Oxidative Metabolism After 10-day Of Bed Rest Is Upstream Of Skeletal-Muscle Mitochondria. Medicine and Science in Sports and Exercise, 2020, 52, 154-154.	0.4	1
88	Irisin Attenuates Muscle Impairment during Bed Rest through Muscle-Adipose Tissue Crosstalk. Biology, 2022, 11, 999.	2.8	1
89	Editorial: Neuromechanics in Movement and Disease With Physiological and Pathophysiological Implications: From Fundamental Experiments to Bio-Inspired Technologies. Frontiers in Physiology, 2022, 13, 895968.	2.8	0