

# Marco Narici

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

8,167  
citations

76196

40  
h-index

49773

87  
g-index

90  
all docs

90  
docs citations

90  
times ranked

8608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Changes of Hamstrings Morphology and Contractile Properties during 10 d of Complete Inactivity. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1346-1354.	0.2	9
2	Editorial: Neuromechanics in Movement and Disease With Physiological and Pathophysiological Implications: From Fundamental Experiments to Bio-Inspired Technologies. <i>Frontiers in Physiology</i> , 2022, 13, 895968.	1.3	0
3	Plasma neurofilament light levels associate with muscle mass and strength in middle-aged and older adults: findings from GenoFit. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1811-1820.	2.9	15
4	Early Biomarkers of Altered Renal Function and Orthostatic Intolerance During 10-day Bedrest. <i>Frontiers in Physiology</i> , 2022, 13, 858867.	1.3	2
5	Decrease in work rate in order to keep a constant heart rate: biomarker of exercise intolerance following a 10-day bed rest. <i>Journal of Applied Physiology</i> , 2022, 132, 1569-1579.	1.2	3
6	Irisin Attenuates Muscle Impairment during Bed Rest through Muscle-Adipose Tissue Crosstalk. <i>Biology</i> , 2022, 11, 999.	1.3	1
7	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
8	Impact of sedentarism due to the COVID-19 home confinement on neuromuscular, cardiovascular and metabolic health: Physiological and pathophysiological implications and recommendations for physical and nutritional countermeasures. <i>European Journal of Sport Science</i> , 2021, 21, 614-635.	1.4	287
9	Neuromuscular Junction Aging: A Role for Biomarkers and Exercise. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 576-585.	1.7	28
10	Are muscle fibres of body builders intrinsically weaker? A comparison with single fibres of aged-matched controls. <i>Acta Physiologica</i> , 2021, 231, e13557.	1.8	13
11	The Anticipation of Gravity in Human Ballistic Movement. <i>Frontiers in Physiology</i> , 2021, 12, 614060.	1.3	8
12	Implementing Ultrasound Imaging for the Assessment of Muscle and Tendon Properties in Elite Sports: Practical Aspects, Methodological Considerations and Future Directions. <i>Sports Medicine</i> , 2021, 51, 1151-1170.	3.1	44
13	Plasma C-Terminal Agrin Fragment as an Early Biomarker for Sarcopenia: Results From the GenoFit Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 2090-2096.	1.7	17
14	Neuromuscular junction instability and altered intracellular calcium handling as early determinants of force loss during unloading in humans. <i>Journal of Physiology</i> , 2021, 599, 3037-3061.	1.3	55
15	Age-related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 973-982.	2.9	38
16	Muscle and tendon adaptations to moderate load eccentric vs. concentric resistance exercise in young and older males. <i>GeroScience</i> , 2021, 43, 1567-1584.	2.1	28
17	Grip strength performance from 9431 participants of the GenoFit study: normative data and associated factors. <i>GeroScience</i> , 2021, 43, 2533-2546.	2.1	33
18	Nonuniform loss of muscle strength and atrophy during bed rest: a systematic review. <i>Journal of Applied Physiology</i> , 2021, 131, 194-206.	1.2	40

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19	The Aging Muscle in Experimental Bed Rest: A Systematic Review and Meta-Analysis. <i>Frontiers in Nutrition</i> , 2021, 8, 633987.	1.6	26
20	Peripheral nerve adaptations to 10 days of horizontal bed rest in healthy young adult males. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R495-R503.	0.9	10
21	Peripheral impairments of oxidative metabolism after a 10-day bed rest are upstream of mitochondrial respiration. <i>Journal of Physiology</i> , 2021, 599, 4813-4829.	1.3	22
22	Active older dancers have lower C-terminal Agrin fragment concentration, better balance and gait performance than sedentary peers. <i>Experimental Gerontology</i> , 2021, 153, 111469.	1.2	9
23	The Time-Course of Changes in Muscle Mass, Architecture and Power During 6 Weeks of Plyometric Training. <i>Frontiers in Physiology</i> , 2020, 11, 946.	1.3	21
24	Longitudinal hypertrophic and transcriptional responses to high-load eccentric-concentric vs concentric training in males. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 2101-2115.	1.3	11
25	Muscle Hypertrophy and Architectural Changes in Response to Eight-Week Neuromuscular Electrical Stimulation Training in Healthy Older People. <i>Life</i> , 2020, 10, 184.	1.1	14
26	Alterations of Extracellular Matrix Mechanical Properties Contribute to Age-Related Functional Impairment of Human Skeletal Muscles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3992.	1.8	54
27	Role of the Extracellular Matrix in Loss of Muscle Force With Age and Unloading Using Magnetic Resonance Imaging, Biochemical Analysis, and Computational Models. <i>Frontiers in Physiology</i> , 2020, 11, 626.	1.3	16
28	Magnetic resonance imaging based muscle strain rate mapping during eccentric contraction to study effects of unloading induced by unilateral limb suspension. <i>European Journal of Translational Myology</i> , 2020, 30, 139-143.	0.8	7
29	The Impairment Of Oxidative Metabolism After 10-day Of Bed Rest Is Upstream Of Skeletal-Muscle Mitochondria. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 154-154.	0.2	1
30	Effects Of 10-days Bed-rest On Nitric Oxide Metabolites And Microvascular Function Assessed By Near-infrared Spectroscopy. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 781-781.	0.2	2
31	Remodeling the Skeletal Muscle Extracellular Matrix in Older Age—Effects of Acute Exercise Stimuli on Gene Expression. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7089.	1.8	14
32	Tendon Adaptations to Eccentric Exercise and the Implications for Older Adults. <i>Journal of Functional Morphology and Kinesiology</i> , 2019, 4, 60.	1.1	7
33	Moderate Intensity Resistive Training Reduces Oxidative Stress and Improves Muscle Mass and Function in Older Individuals. <i>Antioxidants</i> , 2019, 8, 431.	2.2	29
34	Tensiomyography detects early hallmarks of bed-rest-induced atrophy before changes in muscle architecture. <i>Journal of Applied Physiology</i> , 2019, 126, 815-822.	1.2	48
35	Bouncing Back! Counteracting Muscle Aging With Plyometric Muscle Loading. <i>Frontiers in Physiology</i> , 2019, 10, 178.	1.3	26
36	Loss of maximal explosive power of lower limbs after 2 weeks of disuse and incomplete recovery after retraining in older adults. <i>Journal of Physiology</i> , 2018, 596, 647-665.	1.3	43

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37	Assessing sarcopenia with vastus lateralis muscle ultrasound: an operative protocol. <i>Aging Clinical and Experimental Research</i> , 2018, 30, 1437-1443.	1.4	53
38	Relationship of changes in strain rate indices estimated from velocity-encoded MR imaging to loss of muscle force following disuse atrophy. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 912-922.	1.9	20
39	Dysregulation of C-X-C motif ligand 10 during aging and association with cognitive performance. <i>Neurobiology of Aging</i> , 2018, 63, 54-64.	1.5	47
40	Muscle and Tendon Contributions to Reduced Rate of Torque Development in Healthy Older Males. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 539-545.	1.7	33
41	Sarcolab pilot study into skeletal muscle's adaptation to long-term spaceflight. <i>Npj Microgravity</i> , 2018, 4, 18.	1.9	62
42	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. <i>Age and Ageing</i> , 2018, 47, iv1-iv19.	0.7	25
43	Muscle Architecture Assessment: Strengths, Shortcomings and New Frontiers of in Vivo Imaging Techniques. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2492-2504.	0.7	96
44	Handgrip Strength Cannot Be Assumed a Proxy for Overall Muscle Strength. <i>Journal of the American Medical Directors Association</i> , 2018, 19, 703-709.	1.2	82
45	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. <i>PLoS ONE</i> , 2018, 13, e0194291.	1.1	13
46	Assessment of maximal handgrip strength: how many attempts are needed?. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017, 8, 466-474.	2.9	103
47	Muscle Ultrasound and Sarcopenia in Older Individuals: A Clinical Perspective. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 290-300.	1.2	212
48	Neuromuscular deconditioning with disuse: should we live more on our nerves?. <i>Journal of Physiology</i> , 2017, 595, 4127-4127.	1.3	2
49	Structure and function of human muscle fibres and muscle proteome in physically active older men. <i>Journal of Physiology</i> , 2017, 595, 4823-4844.	1.3	52
50	Coupling between skeletal muscle fiber size and capillarization is maintained during healthy aging. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017, 8, 647-659.	2.9	71
51	Anabolic resistance assessed by oral stable isotope ingestion following bed rest in young and older adult volunteers: Relationships with changes in muscle mass. <i>Clinical Nutrition</i> , 2017, 36, 1420-1426.	2.3	31
52	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. <i>Frontiers in Physiology</i> , 2017, 8, 91.	1.3	35
53	Eccentric Exercise and the Critically Ill Patient. <i>Frontiers in Physiology</i> , 2017, 8, 120.	1.3	26
54	Skeletal Muscle Remodeling in Response to Eccentric vs. Concentric Loading: Morphological, Molecular, and Metabolic Adaptations. <i>Frontiers in Physiology</i> , 2017, 8, 447.	1.3	226

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55	Computerized cognitive training and brain derived neurotrophic factor during bed rest: mechanisms to protect individual during acute stress. <i>Aging</i> , 2017, 9, 393-407.	1.4	11
56	Neural Activation During Submaximal Contractions Seems More Reflective of Neuromuscular Ageing than Maximal Voluntary Activation. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 19.	1.7	9
57	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. <i>Journal of Applied Physiology</i> , 2016, 120, 922-929.	1.2	114
58	Association between osteocalcin and cognitive performance in healthy older adults. <i>Age and Ageing</i> , 2016, 45, 844-849.	0.7	46
59	Fascicle length does increase in response to longitudinal resistance training and in a contraction-mode specific manner. <i>SpringerPlus</i> , 2016, 5, 94.	1.2	26
60	Muscle structural assembly and functional consequences. <i>Journal of Experimental Biology</i> , 2016, 219, 276-284.	0.8	104
61	Human skeletal muscle fibre contractile properties and proteomic profile: adaptations to 3 weeks of unilateral lower limb suspension and active recovery. <i>Journal of Physiology</i> , 2015, 593, 5361-5385.	1.3	37
62	Protein Carbonylation and Heat Shock Proteins in Human Skeletal Muscle: Relationships to Age and Sarcopenia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 174-181.	1.7	57
63	Early structural remodeling and deuterium oxide-derived protein metabolic responses to eccentric and concentric loading in human skeletal muscle. <i>Physiological Reports</i> , 2015, 3, e12593.	0.7	57
64	Plantarflexor Muscle Tendon Properties are Associated With Mobility in Healthy Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 996-1002.	1.7	54
65	Maximal explosive power of the lower limbs before and after 35 days of bed rest under different diet energy intake. <i>European Journal of Applied Physiology</i> , 2015, 115, 429-436.	1.2	14
66	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. <i>Journal of the American Medical Directors Association</i> , 2015, 16, 740-747.	1.2	485
67	In-Vivo Measurement of Muscle Tension: Dynamic Properties of the MC Sensor during Isometric Muscle Contraction. <i>Sensors</i> , 2014, 14, 17848-17863.	2.1	20
68	A validation of the application of D <sub>2</sub> O stable isotope tracer techniques for monitoring day-to-day changes in muscle protein subfraction synthesis in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E571-E579.	1.8	159
69	Physiological and functional evaluation of healthy young and older men and women: design of the European MyoAge study. <i>Biogerontology</i> , 2013, 14, 325-337.	2.0	50
70	Costamere remodeling with muscle loading and unloading in healthy young men. <i>Journal of Anatomy</i> , 2013, 223, 525-536.	0.9	44
71	Effect of androgenic-anabolic steroids and heavy strength training on patellar tendon morphological and mechanical properties. <i>Journal of Applied Physiology</i> , 2013, 115, 84-89.	1.2	60
72	Sarcopenia, Dynapenia, and the Impact of Advancing Age on Human Skeletal Muscle Size and Strength; a Quantitative Review. <i>Frontiers in Physiology</i> , 2012, 3, 260.	1.3	898

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73	Preservation of eccentric strength in older adults: Evidence, mechanisms and implications for training and rehabilitation. <i>Experimental Gerontology</i> , 2010, 45, 400-409.	1.2	113
74	Sarcopenia: characteristics, mechanisms and functional significance. <i>British Medical Bulletin</i> , 2010, 95, 139-159.	2.7	553
75	Differential adaptations to eccentric versus conventional resistance training in older humans. <i>Experimental Physiology</i> , 2009, 94, 825-833.	0.9	216
76	Effect of 5 weeks horizontal bed rest on human muscle thickness and architecture of weight bearing and non-weight bearing muscles. <i>European Journal of Applied Physiology</i> , 2008, 104, 401-407.	1.2	171
77	Neuromuscular and balance responses to flywheel inertial versus weight training in older persons. <i>Journal of Biomechanics</i> , 2008, 41, 3133-3138.	0.9	85
78	Positive energy balance is associated with accelerated muscle atrophy and increased erythrocyte glutathione turnover during 5 wk of bed rest. <i>American Journal of Clinical Nutrition</i> , 2008, 88, 950-958.	2.2	129
79	Plasticity of the Muscle-Tendon Complex With Disuse and Aging. <i>Exercise and Sport Sciences Reviews</i> , 2007, 35, 126-134.	1.6	103
80	Contribution of calf muscle-tendon properties to single-leg stance ability in the absence of visual feedback in relation to ageing. <i>Gait and Posture</i> , 2007, 26, 343-348.	0.6	26
81	Time course of muscular, neural and tendinous adaptations to 23 day unilateral lower limb suspension in young men. <i>Journal of Physiology</i> , 2007, 583, 1079-1091.	1.3	224
82	The temporal responses of protein synthesis, gene expression and cell signalling in human quadriceps muscle and patellar tendon to disuse. <i>Journal of Physiology</i> , 2007, 585, 241-251.	1.3	267
83	Calf muscle-tendon properties and postural balance in old age. <i>Journal of Applied Physiology</i> , 2006, 100, 2048-2056.	1.2	284
84	Ultrasonographic assessment of human skeletal muscle size. <i>European Journal of Applied Physiology</i> , 2004, 91, 116-118.	1.2	918
85	Strength training alters the viscoelastic properties of tendons in elderly humans. <i>Muscle and Nerve</i> , 2003, 28, 74-81.	1.0	148
86	Muscles in microgravity: from fibres to human motion. <i>Journal of Biomechanics</i> , 2003, 36, 403-412.	0.9	134
87	Maximal instantaneous muscular power after prolonged bed rest in humans. <i>Journal of Applied Physiology</i> , 2001, 90, 431-435.	1.2	51
88	Human skeletal muscle architecture studied in vivo by non-invasive imaging techniques: functional significance and applications. <i>Journal of Electromyography and Kinesiology</i> , 1999, 9, 97-103.	0.7	159
89	The interplay of central and peripheral factors in limiting maximal O <sub>2</sub> consumption in man after prolonged bed rest. <i>Journal of Physiology</i> , 1997, 501, 677-686.	1.3	148