Carlo G Reggiani

List of Publications by Year
in descending order

93 papers	7,624 citations	136950 32 h-index	56724 83 g-index
94 all docs	94 docs citations	94 times ranked	11421 citing authors

#	Article	IF	Citations
1	Impaired Intracellular Ca2+ Dynamics, M-Band and Sarcomere Fragility in Skeletal Muscles of Obscurin KO Mice. International Journal of Molecular Sciences, 2022, 23, 1319.	4.1	7
2	Irisin Attenuates Muscle Impairment during Bed Rest through Muscle-Adipose Tissue Crosstalk. Biology, 2022, 11, 999.	2.8	1
3	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
4	A controversial issue: Can mitochondria modulate cytosolic calcium and contraction of skeletal muscle fibers?. Journal of General Physiology, 2022, 154, .	1.9	8
5	Caffeine as a tool to investigate sarcoplasmic reticulum and intracellular calcium dynamics in human skeletal muscles. Journal of Muscle Research and Cell Motility, 2021, 42, 281-289.	2.0	16
6	Molecular Mechanisms of Skeletal Muscle Hypertrophy. Journal of Neuromuscular Diseases, 2021, 8, 169-183.	2.6	64
7	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
8	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
9	Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. Cell Reports, 2021, 35, 109087.	6.4	16
10	The effect of leg preference on mechanical efficiency during single-leg extension exercise. Journal of Applied Physiology, 2021, 131, 553-565.	2.5	4
11	Age Dependent Modification of the Metabolic Profile of the Tibialis Anterior Muscle Fibers in C57BL/6J Mice. International Journal of Molecular Sciences, 2020, 21, 3923.	4.1	22
12	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
13	Musculoskeletal adaptations to strength training in frail elderly: a matter of quantity or quality?. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 663-677.	7.3	25
14	Fiber type diversity in skeletal muscle explored by mass spectrometry-based single fiber proteomics. Histology and Histopathology, 2020, 35, 239-246.	0.7	28
15	Excessive Accumulation of Ca2 + in Mitochondria of Y522S-RYR1 Knock-in Mice: A Link Between Leak From the Sarcoplasmic Reticulum and Altered Redox State. Frontiers in Physiology, 2019, 10, 1142.	2.8	14
16	Age-dependent variations in the expression of myosin isoforms and myogenic factors during the involution of the proximal sesamoidean ligament of sheep. Research in Veterinary Science, 2019, 124, 270-279.	1.9	3
17	Changes in the fraction of strongly attached cross bridges in mouse atrophic and hypertrophic muscles as revealed by continuous wave electron paramagnetic resonance. American Journal of Physiology - Cell Physiology, 2019, 316, C722-C730.	4.6	4
18	Skeletal Muscle Fiber Size and Gene Expression in the Oldest-Old With Differing Degrees of Mobility. Frontiers in Physiology, 2019, 10, 313.	2.8	18

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19	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
20	Fibre and extracellular matrix contributions to passive forces in human skeletal muscles: An experimental based constitutive law for numerical modelling of the passive element in the classical Hill-type three element model. PLoS ONE, 2019, 14, e0224232.	2.5	29
21	Title is missing!. , 2019, 14, e0224232.		0
22	Title is missing!. , 2019, 14, e0224232.		0
23	Title is missing!. , 2019, 14, e0224232.		0
24	Title is missing!. , 2019, 14, e0224232.		0
25	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
26	Lactate Dehydrogenase and Glutamate Pyruvate Transaminase biosensing strategies for lactate detection on screen-printed sensors. Catalysis efficiency and interference analysis in complex matrices: from cell cultures to sport medicine. Sensing and Bio-Sensing Research, 2018, 21, 54-64.	4.2	12
27	A 3D diffusional-compartmental model of the calcium dynamics in cytosol, sarcoplasmic reticulum and mitochondria of murine skeletal muscle fibers. PLoS ONE, 2018, 13, e0201050.	2.5	23
28	Resveratrol treatment reduces the appearance of tubular aggregates and improves the resistance to fatigue in aging mice skeletal muscles. Experimental Gerontology, 2018, 111, 170-179.	2.8	21
29	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
30	Absolute quantification of myosin heavy chain isoforms by selected reaction monitoring can underscore skeletal muscle changes in a mouse model of amyotrophic lateral sclerosis. Analytical and Bioanalytical Chemistry, 2017, 409, 2143-2153.	3.7	26
31	Strenuous exercise triggers a lifeâ€threatening response in mice susceptible to malignant hyperthermia. FASEB Journal, 2017, 31, 3649-3662.	0.5	34
32	Single Muscle Fiber Proteomics Reveals Fiber-Type-Specific Features of Human Muscle Aging. Cell Reports, 2017, 19, 2396-2409.	6.4	213
33	From single muscle fiber to whole muscle mechanics: a finite element model of a muscle bundle with fast and slow fibers. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1833-1843.	2.8	24
34	Identification and characterization of three novel mutations in the<i>CASQ1</i>gene in four patients with tubular aggregate myopathy. Human Mutation, 2017, 38, 1761-1773.	2.5	51
35	FoxOâ€dependent atrogenes vary among catabolic conditions and play a key role in muscle atrophy induced by hindlimb suspension. Journal of Physiology, 2017, 595, 1143-1158.	2.9	75
36	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

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37	Physiological and Perceptual Responses to Nordic Walking in a Natural Mountain Environment. International Journal of Environmental Research and Public Health, 2017, 14, 1235.	2.6	11
38	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
39	Protein Supplementation Does Not Further Increase Latissimus Dorsi Muscle Fiber Hypertrophy after Eight Weeks of Resistance Training in Novice Subjects, but Partially Counteracts the Fast-to-Slow Muscle Fiber Transition. Nutrients, 2016, 8, 331.	4.1	12
40	Mechanosensing in Myosin Filament Solves a 60 Years Old Conflict in Skeletal Muscle Modeling between High Power Output and Slow Rise in Tension. Frontiers in Physiology, 2016, 7, 427.	2.8	21
41	Age-dependent neuromuscular impairment in prion protein knockout mice. Muscle and Nerve, 2016, 53, 269-279.	2.2	10
42	Letter to the editor: Comments on Stuart et al. (2016): â€œMyosin content of individual human muscle fibers isolated by laser capture microdissectionâ€ American Journal of Physiology - Cell Physiology, 2016, 311, C1048-C1049.	4.6	2
43	Age-related changes in skeletal muscle function: the sum of the parts could be greater than the whole. Journal of Applied Physiology, 2016, 121, 1234-1234.	2.5	2
44	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
45	Piperineâ€™s mitigation of obesity and diabetes can be explained by its up-regulation of the metabolic rate of resting muscle. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13009-13014.	7.1	33
46	Expression and identification of 10 sarcomeric MyHC isoforms in human skeletal muscles of different embryological origin. Diversity and similarity in mammalian species. Annals of Anatomy, 2016, 207, 9-20.	1.9	30
47	Oxidative stress, mitochondrial damage, and cores in muscle from calsequestrin-1 knockout mice. Skeletal Muscle, 2015, 5, 10.	4.2	33
48	Regulation of muscle mass: a new role for mitochondria?. Journal of Physiology, 2015, 593, 1761-1762.	2.9	4
49	Single muscle fiber proteomics reveals unexpected mitochondrial specialization. EMBO Reports, 2015, 16, 387-395.	4.5	163
50	The disorders of the calcium release unit of skeletal muscles: what have we learned from mouse models?. Journal of Muscle Research and Cell Motility, 2015, 36, 61-69.	2.0	14
51	Developmental myosins: expression patterns and functional significance. Skeletal Muscle, 2015, 5, 22.	4.2	352
52	Calcium handling in muscle fibres of mice and men: evolutionary adaptation in different species to optimize performance and save energy. Journal of Physiology, 2014, 592, 1173-1174.	2.9	4
53	The role of satellite cells in muscle hypertrophy. Journal of Muscle Research and Cell Motility, 2014, 35, 3-10.	2.0	61
54	A Mutation in the<i>CASQ1</i>Gene Causes a Vacuolar Myopathy with Accumulation of Sarcoplasmic Reticulum Protein Aggregates. Human Mutation, 2014, 35, 1163-1170.	2.5	53

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55	Who can better resist the adverse effects of disuse on muscles: men or women?. Journal of Physiology, 2014, 592, 4415-4416.	2.9	1
56	Mechanisms Modulating Skeletal Muscle Phenotype. , 2013, 3, 1645-1687.		191
57	Obscurin is required for ankyrinB-dependent dystrophin localization and sarcolemma integrity. Journal of Cell Biology, 2013, 200, 523-536.	5.2	63
58	Myosin Isoforms and Contractile Properties of Single Fibers of Human Latissimus Dorsi Muscle. BioMed Research International, 2013, 2013, 1-7.	1.9	15
59	Mitochondrial Ca2+-Handling in Fast Skeletal Muscle Fibers from Wild Type and Calsequestrin-Null Mice. PLoS ONE, 2013, 8, e74919.	2.5	25
60	Calsequestrin (CASQ1) rescues function and structure of calcium release units in skeletal muscles of CASQ1-null mice. American Journal of Physiology - Cell Physiology, 2012, 302, C575-C586.	4.6	28
61	Microgenomic Analysis in Skeletal Muscle: Expression Signatures of Individual Fast and Slow Myofibers. PLoS ONE, 2011, 6, e16807.	2.5	91
62	Fiber Types in Mammalian Skeletal Muscles. Physiological Reviews, 2011, 91, 1447-1531.	28.8	2,100
63	Lessons from calsequestrin-1 ablation in vivo: much more than a Ca2+ buffer after all. Journal of Muscle Research and Cell Motility, 2011, 32, 257-270.	2.0	26
64	Differential Effect of Calsequestrin Ablation on Structure and Function of Fast and Slow Skeletal Muscle Fibers. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-10.	3.0	30
65	Eccentric contractions lead to myofibrillar dysfunction in muscular dystrophy. Journal of Applied Physiology, 2010, 108, 105-111.	2.5	42
66	Two novel/ancient myosins in mammalian skeletal muscles: MYH14/7b and MYH15 are expressed in extraocular muscles and muscle spindles. Journal of Physiology, 2010, 588, 353-364.	2.9	114
67	Latissimus Dorsi Fine Needle Muscle Biopsy: A Novel and Efficient Approach to Study Proximal Muscles of Upper Limbs. Journal of Surgical Research, 2010, 164, e257-e263.	1.6	16
68	Anestheticâ€and heatâ€induced sudden death in calsequestrinâ€1â€knockout mice. FASEB Journal, 2009, 23, 1710-1720.	0.5	99
69	Inducible activation of Akt increases skeletal muscle mass and force without satellite cell activation. FASEB Journal, 2009, 23, 3896-3905.	0.5	196
70	From action potential to contraction: Neural control and excitationâ€"contraction coupling in larval muscles of Drosophila. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 173-183.	1.8	27
71	Autophagy Is Required to Maintain Muscle Mass. Cell Metabolism, 2009, 10, 507-515.	16.2	1,554
72	Post-transcriptional silencing of the Drosophila homolog of human ZASP: a molecular and functional analysis. Cell and Tissue Research, 2009, 337, 463-476.	2.9	18

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73	Genes, Geography and Geometry. Journal of Molecular Diagnostics, 2009, 11, 12-16.	2.8	1
74	Myosin Ii: Sarcomeric Myosins, The Motors Of Contraction In Cardiac And Skeletal Muscles. , 2008, , 125-169.		4
75	Between channels and tears: aim at ROS to save the membrane of dystrophic fibres. Journal of Physiology, 2008, 586, 1779-1779.	2.9	8
76	Myostatin shows a specific expression pattern in pig skeletal and extraocular muscles during pre- and post-natal growth. Differentiation, 2008, 76, 168-181.	1.9	38
77	Masticatory myosin unveiled: first determination of contractile parameters of muscle fibers from carnivore jaw muscles. American Journal of Physiology - Cell Physiology, 2008, 295, C1535-C1542.	4.6	39
78	Akt activation prevents the force drop induced by eccentric contractions in dystrophin-deficient skeletal muscle. Human Molecular Genetics, 2008, 17, 3686-3696.	2.9	75
79	Fiber types in canine muscles: myosin isoform expression and functional characterization. American Journal of Physiology - Cell Physiology, 2007, 292, C1915-C1926.	4.6	73
80	The sarcomeric myosin heavy chain gene family in the dog: Analysis of isoform diversity and comparison with other mammalian species. Genomics, 2007, 89, 224-236.	2.9	14
81	When fibres go slack and cross bridges are free to run: a brilliant method to study kinetic properties of acto-myosin interaction. Journal of Physiology, 2007, 583, 5-7.	2.9	6
82	Reorganized stores and impaired calcium handling in skeletal muscle of mice lacking calsequestrinâ€•1. Journal of Physiology, 2007, 583, 767-784.	2.9	130
83	RyR isoforms and fibre type-specific expression of proteins controlling intracellular calcium concentration in skeletal muscles. Journal of Muscle Research and Cell Motility, 2006, 27, 327-335.	2.0	25
84	NFATc1 nucleocytoplasmic shuttling is controlled by nerve activity in skeletal muscle. Journal of Cell Science, 2006, 119, 1604-1611.	2.0	81
85	Post-transcriptional Silencing and Functional Characterization of the Drosophila melanogaster Homolog of Human Surf1. Genetics, 2006, 172, 229-241.	2.9	42
86	Nerve influence on myosin light chain phosphorylation in slow and fast skeletal muscles. FEBS Journal, 2005, 272, 5771-5785.	4.7	38
87	Selective expression of the type 3 isoform of ryanodine receptor Ca2+ release channel (RyR3) in a subset of slow fibers in diaphragm and cephalic muscles of adult rabbits. Biochemical and Biophysical Research Communications, 2005, 337, 195-200.	2.1	11
88	Fast fibres in a large animal: fibre types, contractile properties and myosin expression in pig skeletal muscles. Journal of Experimental Biology, 2004, 207, 1875-1886.	1.7	81
89	Muscle Plasticity and High Throughput Gene Expression Studies. Journal of Muscle Research and Cell Motility, 2004, 25, 231-234.	2.0	3
90	Skeletal muscle fibre type specification during embryonic development. Journal of Muscle Research and Cell Motility, 2002, 23, 65-69.	2.0	27

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91	ATP Consumption and Efficiency of Human Single Muscle Fibers with Different Myosin Isoform Composition. Biophysical Journal, 2000, 79, 945-961.	0.5	296
92	Expression of the Ryanodine Receptor Type 3 in Skeletal Muscle A New Partner in Excitation-Contraction Coupling?. Trends in Cardiovascular Medicine, 1999, 9, 54-61.	4.9	49
93	Ewaldâ€™s role among the pioneers of otoneurology. Hearing, Balance and Communication, 0, , 1-5.	0.4	0