Carlo Reggiani

List of Publications by Year
in descending order

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63 papers	7,824 citations	126907 33 h-index	138484 58 g-index
64 all docs	64 docs citations	64 times ranked	11979 citing authors

#	Article	IF	Citations
1	Signatures of muscle disuse in spaceflight and bed rest revealed by single muscle fiber proteomics. , 2022, 1, .		22
2	A controversial issue: Can mitochondria modulate cytosolic calcium and contraction of skeletal muscle fibers?. Journal of General Physiology, 2022, 154, .	1.9	8
3	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
4	Molecular Mechanisms of Skeletal Muscle Hypertrophy. Journal of Neuromuscular Diseases, 2021, 8, 169-183.	2.6	64
5	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
6	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
7	Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. Cell Reports, 2021, 35, 109087.	6.4	16
8	The effect of leg preference on mechanical efficiency during single-leg extension exercise. Journal of Applied Physiology, 2021, 131, 553-565.	2.5	4
9	Muscle hypertrophy and muscle strength: dependent or independent variables? A provocative review. European Journal of Translational Myology, 2020, 30, 9311.	1.7	30
10	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
11	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
12	Fiber type diversity in skeletal muscle explored by mass spectrometry-based single fiber proteomics. Histology and Histopathology, 2020, 35, 239-246.	0.7	28
13	Increase of resting muscle stiffness, a less considered component of age-related skeletal muscle impairment. European Journal of Translational Myology, 2020, 30, 8982.	1.7	8
14	DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. Nature Communications, 2019, 10, 2576.	12.8	274
15	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
16	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
17	Transcriptomic Analysis of Single Isolated Myofibers Identifies miR-27a-3p and miR-142-3p as Regulators of Metabolism in Skeletal Muscle. Cell Reports, 2019, 26, 3784-3797.e8.	6.4	55
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	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
20	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
21	Single Muscle Fiber Proteomics Reveals Fiber-Type-Specific Features of Human Muscle Aging. Cell Reports, 2017, 19, 2396-2409.	6.4	213
22	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
23	Identification and characterization of three novel mutations in theCASQ1gene in four patients with tubular aggregate myopathy. Human Mutation, 2017, 38, 1761-1773.	2.5	51
24	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
25	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
26	Age-dependent neuromuscular impairment in prion protein knockout mice. Muscle and Nerve, 2016, 53, 269-279.	2.2	10
27	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
28	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
29	Developmental myosins: expression patterns and functional significance. Skeletal Muscle, 2015, 5, 22.	4.2	352
30	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
31	The role of satellite cells in muscle hypertrophy. Journal of Muscle Research and Cell Motility, 2014, 35, 3-10.	2.0	61
32	A Mutation in theCASQ1Gene Causes a Vacuolar Myopathy with Accumulation of Sarcoplasmic Reticulum Protein Aggregates. Human Mutation, 2014, 35, 1163-1170.	2.5	53
33	Mechanisms Modulating Skeletal Muscle Phenotype. , 2013, 3, 1645-1687.		191
34	Myosin Isoforms and Contractile Properties of Single Fibers of Human Latissimus Dorsi Muscle. BioMed Research International, 2013, 2013, 1-7.	1.9	15
35	AQP4-Dependent Water Transport Plays a Functional Role in Exercise-Induced Skeletal Muscle Adaptations. PLoS ONE, 2013, 8, e58712.	2.5	32
36	Skeletal Muscle Fiber Types. , 2012, , 855-867.		2

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37	Microgenomic Analysis in Skeletal Muscle: Expression Signatures of Individual Fast and Slow Myofibers. PLoS ONE, 2011, 6, e16807.	2.5	91
38	Fiber Types in Mammalian Skeletal Muscles. Physiological Reviews, 2011, 91, 1447-1531.	28.8	2,100
39	Eccentric contractions lead to myofibrillar dysfunction in muscular dystrophy. Journal of Applied Physiology, 2010, 108, 105-111.	2.5	42
40	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
41	Oxidative stress by monoamine oxidases is causally involved in myofiber damage in muscular dystrophy. Human Molecular Genetics, 2010, 19, 4207-4215.	2.9	108
42	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
43	Inducible activation of Akt increases skeletal muscle mass and force without satellite cell activation. FASEB Journal, 2009, 23, 3896-3905.	0.5	196
44	Autophagy Is Required to Maintain Muscle Mass. Cell Metabolism, 2009, 10, 507-515.	16.2	1,554
45	Myosin Ii: Sarcomeric Myosins, The Motors Of Contraction In Cardiac And Skeletal Muscles. , 2008, , 125-169.		4
46	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
47	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
48	Fiber types in canine muscles: myosin isoform expression and functional characterization. American Journal of Physiology - Cell Physiology, 2007, 292, C1915-C1926.	4.6	73
49	Reorganized stores and impaired calcium handling in skeletal muscle of mice lacking calsequestrinâ€1. Journal of Physiology, 2007, 583, 767-784.	2.9	130
50	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
51	NFATc1 nucleocytoplasmic shuttling is controlled by nerve activity in skeletal muscle. Journal of Cell Science, 2006, 119, 1604-1611.	2.0	81
52	Nerve influence on myosin light chain phosphorylation in slow and fast skeletal muscles. FEBS Journal, 2005, 272, 5771-5785.	4.7	38
53	Imaging and elasticity measurements of the sarcolemma of fully differentiated skeletal muscle fibres. Microscopy Research and Technique, 2005, 67, 27-35.	2.2	53
54	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

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55	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
56	The mechanism of the force response to stretch in human skinned muscle fibres with different myosin isoforms. Journal of Physiology, 2004, 554, 335-352.	2.9	73
57	Mitochondrial dysfunction and apoptosis in myopathic mice with collagen VI deficiency. Nature Genetics, 2003, 35, 367-371.	21.4	469
58	Increased phosphorylation of myosin light chain associated with slow-to-fast transition in rat soleus. American Journal of Physiology - Cell Physiology, 2003, 285, C575-C583.	4.6	43
59	Bupivacaine Myotoxicity Is Mediated by Mitochondria. Journal of Biological Chemistry, 2002, 277, 12221-12227.	3.4	154
60	Contractile properties and myosin heavy chain isoform composition in single fibre of human laryngeal muscles. Journal of Muscle Research and Cell Motility, 2002, 23, 187-195.	2.0	38
61	ATP Consumption and Efficiency of Human Single Muscle Fibers with Different Myosin Isoform Composition. Biophysical Journal, 2000, 79, 945-961.	0.5	296
62	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
63	Increase of resting muscle stiffness, a less considered component of age-related skeletal muscle impairment. European Journal of Translational Myology, 0, , .	1.7	0