

Barbara Colombini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7850057/publications.pdf>

Version: 2024-02-01

68
papers

1,018
citations

393982

19
h-index

476904

29
g-index

68
all docs

68
docs citations

68
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	A Non-Cross-Bridge Stiffness in Activated Frog Muscle Fibers. <i>Biophysical Journal</i> , 2002, 82, 3118-3127.	0.2	109
2	Non-cross-bridge calcium-dependent stiffness in frog muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C1353-C1357.	2.1	55
3	Crossbridge properties investigated by fast ramp stretching of activated frog muscle fibres. <i>Journal of Physiology</i> , 2005, 565, 261-268.	1.3	53
4	Force enhancement after stretch in mammalian muscle fiber: no evidence of cross-bridge involvement. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C1123-C1129.	2.1	44
5	Is the Cross-Bridge Stiffness Proportional to Tension during Muscle Fiber Activation?. <i>Biophysical Journal</i> , 2010, 98, 2582-2590.	0.2	42
6	Nutritional Interventions in the Management of Fibromyalgia Syndrome. <i>Nutrients</i> , 2020, 12, 2525.	1.7	40
7	Non-crossbridge forces in activated striated muscles: a titin dependent mechanism of regulation?. <i>Journal of Muscle Research and Cell Motility</i> , 2015, 36, 37-45.	0.9	34
8	Adherence to the Mediterranean diet among Italian adults: results from the web-based Medi-Lite questionnaire. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 271-279.	1.3	34
9	Force responses to fast ramp stretches in stimulated frog skeletal muscle fibres. <i>Journal of Muscle Research and Cell Motility</i> , 1997, 19, 33-42.	0.9	31
10	Mechanical properties of intact single fibres from wild-type and MLC/mIgf-1 transgenic mouse muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2009, 30, 199-207.	0.9	30
11	Force decline during fatigue is due to both a decrease in the force per individual cross-bridge and the number of cross-bridges. <i>Journal of Physiology</i> , 2011, 589, 3371-3381.	1.3	30
12	Expression, Purification, and Characterization of Acylphosphatase Muscular Isoenzyme as Fusion Protein with GlutathioneS-Transferase. <i>Protein Expression and Purification</i> , 1995, 6, 799-805.	0.6	28
13	Crossbridge properties during force enhancement by slow stretching in single intact frog muscle fibres. <i>Journal of Physiology</i> , 2007, 585, 607-615.	1.3	26
14	Consumption of Ultra-Processed Foods Is Inversely Associated with Adherence to the Mediterranean Diet: A Cross-Sectional Study. <i>Nutrients</i> , 2022, 14, 2073.	1.7	26
15	Sarcomere tension-stiffness relation during the tetanus rise in single frog muscle fibres. <i>Journal of Muscle Research and Cell Motility</i> , 1999, 20, 469-476.	0.9	24
16	Changes in myosin S1 orientation and force induced by a temperature increase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5384-5389.	3.3	24
17	Characterization of actomyosin bond properties in intact skeletal muscle by force spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9284-9289.	3.3	24
18	Effect of temperature on cross-bridge properties in intact frog muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C1113-C1117.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Non-crossbridge calcium-dependent stiffness in slow and fast skeletal fibres from mouse muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2012, 32, 403-409.	0.9	22
20	Frequency-Dependent Distortion of Meridional Intensity Changes during Sinusoidal Length Oscillations of Activated Skeletal Muscle. <i>Biophysical Journal</i> , 2001, 80, 2809-2822.	0.2	19
21	The relation between sarcomere energetics and the rate of isometric tension relaxation in healthy and diseased cardiac muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2021, 42, 47-57.	0.9	19
22	Mechanism of force enhancement during stretching of skeletal muscle fibres investigated by high time-resolved stiffness measurements. <i>Journal of Muscle Research and Cell Motility</i> , 2013, 34, 71-81.	0.9	18
23	A Khorasan Wheat-Based Replacement Diet Improves Risk Profile of Patients With Nonalcoholic Fatty Liver Disease (NAFLD): A Randomized Clinical Trial. <i>Journal of the American College of Nutrition</i> , 2018, 37, 508-514.	1.1	17
24	Effects of the Number of Actin-Bound S1 and Axial Force on X-Ray Patterns of Intact Skeletal Muscle. <i>Biophysical Journal</i> , 2006, 90, 975-984.	0.2	15
25	Phosphate increase during fatigue affects crossbridge kinetics in intact mouse muscle at physiological temperature. <i>Journal of Physiology</i> , 2017, 595, 4317-4328.	1.3	15
26	Morning chronotype is associated with higher adherence to the Mediterranean diet in a sample of Italian adults. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2022, 32, 2086-2092.	1.1	15
27	Non-crossbridge stiffness in active muscle fibres. <i>Journal of Experimental Biology</i> , 2016, 219, 153-160.	0.8	14
28	S1P ₃ receptor influences key physiological properties of fast-twitch extensor digitorum longus muscle. <i>Journal of Applied Physiology</i> , 2016, 120, 1288-1300.	1.2	13
29	Effects of solution tonicity on crossbridge properties and myosin lever arm disposition in intact frog muscle fibres. <i>Journal of Physiology</i> , 2007, 578, 337-346.	1.3	12
30	Reversal of the Myosin Power Stroke Induced by Fast Stretching of Intact Skeletal Muscle Fibers. <i>Biophysical Journal</i> , 2009, 97, 2922-2929.	0.2	12
31	Effect of Temperature on Crossbridge Force Changes during Fatigue and Recovery in Intact Mouse Muscle Fibers. <i>PLoS ONE</i> , 2013, 8, e78918.	1.1	12
32	Profiling Carbonylated Proteins in Heart and Skeletal Muscle Mitochondria from Trained and Untrained Mice. <i>Journal of Proteome Research</i> , 2016, 15, 3666-3678.	1.8	11
33	Effects of a dietary intervention with Mediterranean and vegetarian diets on hormones that influence energy balance: results from the CARDIVEG study. <i>International Journal of Food Sciences and Nutrition</i> , 2020, 71, 362-369.	1.3	10
34	Crossbridge viscosity in activated frog muscle fibres. <i>Biophysical Chemistry</i> , 1997, 68, 1-8.	1.5	9
35	Effect of consumption of ancient grain bread leavened with sourdough or with baker's yeast on cardio-metabolic risk parameters: a dietary intervention trial. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 367-374.	1.3	9
36	Effect of ancient Khorasan wheat on gut microbiota, inflammation, and short-chain fatty acid production in patients with fibromyalgia. <i>World Journal of Gastroenterology</i> , 2022, 28, 1965-1980.	1.4	9

#	ARTICLE	IF	CITATIONS
37	Non Cross-Bridge Stiffness in Skeletal Muscle Fibres at Rest and During Activity. , 2005, 565, 141-155.		8
38	Adherence to the Mediterranean diet increased during the COVID-19 lockdown in Italy: results from the web-based Medi-Lite questionnaire. International Journal of Food Sciences and Nutrition, 2022, 73, 650-656.	1.3	8
39	Crossbridge Formation Detected by Stiffness Measurements in Single Muscle Fibres. , 2005, 565, 127-140.		7
40	The effects of fatigue and oxidation on contractile function of intact muscle fibers and myofibrils isolated from the mouse diaphragm. Scientific Reports, 2019, 9, 4422.	1.6	7
41	Effectiveness of a Khorasan Wheatâ€“Based Replacement on Pain Symptoms and Quality of Life in Patients with Fibromyalgia. Pain Medicine, 2020, 21, 2366-2372.	0.9	7
42	Adherence to Mediterranean Diet Measured through Medi-Lite Score and Obesity: A Retrospective Study. Nutrients, 2021, 13, 2007.	1.7	7
43	Impaired Intracellular Ca ²⁺ Dynamics, M-Band and Sarcomere Fragility in Skeletal Muscles of Obscurin KO Mice. International Journal of Molecular Sciences, 2022, 23, 1319.	1.8	7
44	BMI, functional and cognitive status in a cohort of nonagenarians: results from the Mugello study. European Geriatric Medicine, 2021, 12, 379-386.	1.2	6
45	Effects of vegetarian versus Mediterranean diet on kidney function: Findings from the CARDIVEG study. European Journal of Clinical Investigation, 2021, 51, e13576.	1.7	6
46	Mechanical properties of frog muscle fibres at rest and during twitch contraction. Journal of Electromyography and Kinesiology, 1999, 9, 77-86.	0.7	5
47	Studies on the 14.5 nm Meridional X-Ray Diffraction Reflection During Length Changes of Intact Frog Muscle Fibres. Advances in Experimental Medicine and Biology, 1998, 453, 247-258.	0.8	4
48	Myofilament Compliance and Sarcomere Tension-Stiffness Relation during the Tetanus Rise in Frog Muscle Fibres. Advances in Experimental Medicine and Biology, 1998, 453, 383-392.	0.8	4
49	Myosin lever disposition during length oscillations when power stroke tilting is reduced. American Journal of Physiology - Cell Physiology, 2005, 289, C177-C186.	2.1	3
50	Effects of Cutaneous Negative Pressure Application on Perforator Artery Flow in Healthy Volunteers: A Preliminary Study. Journal of Reconstructive Microsurgery, 2019, 35, 189-193.	1.0	3
51	Cross-Bridge Properties in Single Intact Frog Fibers Studied by Fast Stretches. Advances in Experimental Medicine and Biology, 2010, 682, 191-205.	0.8	3
52	Use of Sinusoidal Length Oscillations to Detect Myosin Conformation by Time- Resolved X-Ray Diffraction. Advances in Experimental Medicine and Biology, 2003, 538, 267-277.	0.8	2
53	Force Response to Stretches in Activated Frog Muscle Fibres at Low Tension. Advances in Experimental Medicine and Biology, 2003, 538, 429-439.	0.8	2
54	Comparison Of Mechanical Properties Of Single Intact Fibres From Wild-type And Mlc/migf-1 Mouse Muscle. Biophysical Journal, 2009, 96, 497a.	0.2	1

#	ARTICLE	IF	CITATIONS
55	Occurrence of Dysgeusia in Patients Being Treated for Cancer. <i>Nutrition and Cancer</i> , 2022, , 1-7.	0.9	1
56	Crossbridge kinetics in single frog muscle fibres in presence of ethylene glycol. <i>Journal of Muscle Research and Cell Motility</i> , 2000, 21, 629-637.	0.9	0
57	Crossbridge Properties During The Quick Force Recovery In Single Frog Muscle Fibers. <i>Biophysical Journal</i> , 2009, 96, 617a.	0.2	0
58	Cross-Bridges and Sarcomere Stiffness in Single Intact Frog Muscle Fibers. <i>Biophysical Journal</i> , 2010, 98, 348a.	0.2	0
59	Static Stiffness in Slow and Fast Mouse Muscle Fibers Expressing Different Titin Isoforms. <i>Biophysical Journal</i> , 2011, 100, 127a.	0.2	0
60	Crossbridge Properties during Fatigue and Recovery in Mouse Skeletal Muscle Fibres. <i>Biophysical Journal</i> , 2013, 104, 484a.	0.2	0
61	Dietary intervention with vegetarian and mediterranean diets for cardiovascular prevention: Effects on hormones involved in the energy balance. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2019, 29, 881.	1.1	0
62	Effectiveness of a replacement diet with cereal products based on ancient wheat Khorasan on the pain symptoms and on the SCFA production in patients with fibromyalgia. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 542.	1.1	0
63	Effects of an olive oil by-product on the cardiovascular risk profile: results of a randomized controlled clinical trial. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 537.	1.1	0
64	Is there an obesity paradox in the elderly? Body mass index, functional status and cognitive function in a cohort of nonagenarians: results from the MUGELLO study. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 537.	1.1	0
65	Chapter 7 The Static Tension in Skeletal Muscles and Its Regulation by Titin. , 2016, , 193-208.		0
66	Chapter 6 Mechanism of Force Potentiation after Stretch in Intact Mammalian Muscle. , 2016, , 169-192.		0
67	Chapter 9 Effect of DTT on Force and Stiffness during Recovery from Fatigue in Mouse Muscle Fibres. , 2016, , 235-246.		0
68	Nutrients, foods and dietary patterns in the management of autoimmune rheumatic diseases. <i>Clinical Nutrition Open Science</i> , 2022, 44, 49-65.	0.5	0