Marc Francaux

List of Publications by Year
in descending order

109 papers	4,872 citations	70961 41 h-index	102304 66 g-index
111 all docs	111 docs citations	111 times ranked	8254 citing authors

#	Article	IF	Citations
1	Inulin-type fructans with prebiotic properties counteract GPR43 overexpression and PPARÎ³-related adipogenesis in the white adipose tissue of high-fat diet-fed mice. Journal of Nutritional Biochemistry, 2011, 22, 712-722.	1.9	237
2	Stretch-shortening cycle exercises: an effective training paradigm to enhance power output of human single muscle fibers. Journal of Applied Physiology, 2006, 100, 771-779.	1.2	190
3	Long-term oral creatine supplementation does not impair renal function in healthy athletes. Medicine and Science in Sports and Exercise, 1999, 31, 1108-1110.	0.2	163
4	Does High Cardiorespiratory Fitness Confer Some Protection Against Proinflammatory Responses After Infection by SARSâ€CoVâ€2?. Obesity, 2020, 28, 1378-1381.	1.5	140
5	Adverse Effects of Creatine Supplementation. Sports Medicine, 2000, 30, 155-170.	3.1	135
6	The unfolded protein response is activated in skeletal muscle by high-fat feeding: potential role in the downregulation of protein synthesis. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E695-E705.	1.8	134
7	Activation of autophagy in human skeletal muscle is dependent on exercise intensity and AMPK activation. FASEB Journal, 2015, 29, 3515-3526.	0.2	131
8	Modulation of autophagy and ubiquitin-proteasome pathways during ultra-endurance running. Journal of Applied Physiology, 2012, 112, 1529-1537.	1.2	127
9	Higher activation of autophagy in skeletal muscle of mice during endurance exercise in the fasted state. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E964-E974.	1.8	124
10	Beneficial effects of creatine supplementation in dystrophic patients. Muscle and Nerve, 2003, 27, 604-610.	1.0	123
11	Changes in serum pneumoproteins caused by short-term exposures to nitrogen trichloride in indoor chlorinated swimming pools. Biomarkers, 2002, 7, 464-478.	0.9	122
12	Increased IGF mRNA in Human Skeletal Muscle after Creatine Supplementation. Medicine and Science in Sports and Exercise, 2005, 37, 731-736.	0.2	110
13	Effects of resistance exercise with and without creatine supplementation on gene expression and cell signaling in human skeletal muscle. Journal of Applied Physiology, 2008, 104, 371-378.	1.2	110
14	Regulation of mTOR by amino acids and resistance exercise in skeletal muscle. European Journal of Applied Physiology, 2005, 94, 1-10.	1.2	95
15	Autophagy-related and autophagy-regulatory genes are induced in human muscle after ultraendurance exercise. European Journal of Applied Physiology, 2012, 112, 3173-3177.	1.2	90
16	Creatine enhances differentiation of myogenic C₂C₁₂cells by activating both p38 and Akt/PKB pathways. American Journal of Physiology - Cell Physiology, 2007, 293, C1263-C1271.	2.1	89
17	Decrease in Akt/PKB signalling in human skeletal muscle by resistance exercise. European Journal of Applied Physiology, 2008, 104, 57-65.	1.2	89
18	Toll-Like Receptor 4 Knockout Mice Are Protected against Endoplasmic Reticulum Stress Induced by a High-Fat Diet. PLoS ONE, 2013, 8, e65061.	1.1	87

#	Article	IF	Citations
19	Changes in Intestinal Bifidobacteria Levels Are Associated with the Inflammatory Response in Magnesium-Deficient Mice. Journal of Nutrition, 2010, 140, 509-514.	1.3	83
20	Hepatic n-3 Polyunsaturated Fatty Acid Depletion Promotes Steatosis and Insulin Resistance in Mice: Genomic Analysis of Cellular Targets. PLoS ONE, 2011, 6, e23365.	1.1	83
21	No effect of creatine supplementation on human myofibrillar and sarcoplasmic protein synthesis after resistance exercise. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E1089-E1094.	1.8	78
22	Nuclear respiratory factor 1 and endurance exercise promote human telomere transcription. Science Advances, 2016, 2, e1600031.	4.7	78
23	Endoplasmic Reticulum Stress Markers and Ubiquitin-Proteasome Pathway Activity in Response to a 200-km Run. Medicine and Science in Sports and Exercise, 2011, 43, 18-25.	0.2	74
24	Impact of Very Early Physical Therapy During Septic Shock on Skeletal Muscle: A Randomized Controlled Trial. Critical Care Medicine, 2018, 46, 1436-1443.	0.4	74
25	Effect of Oral Creatine Supplementation on Urinary Methylamine, Formaldehyde, and Formate. Medicine and Science in Sports and Exercise, 2005, 37, 1717-1720.	0.2	73
26	Effects of training and creatine supplement on muscle strength and body mass. European Journal of Applied Physiology and Occupational Physiology, 1999, 80, 165-168.	1.2	72
27	Creatine increases IGF-I and myogenic regulatory factor mRNA in C2C12cells. FEBS Letters, 2004, 557, 243-247.	1.3	70
28	Effect of long-term muscle paralysis on human single fiber mechanics. Journal of Applied Physiology, 2007, 102, 340-349.	1.2	60
29	Regular Endurance Exercise Promotes Fission, Mitophagy, and Oxidative Phosphorylation in Human Skeletal Muscle Independently of Age. Frontiers in Physiology, 2019, 10, 1088.	1.3	60
30	Aging Reduces the Activation of the mTORC1 Pathway after Resistance Exercise and Protein Intake in Human Skeletal Muscle: Potential Role of REDD1 and Impaired Anabolic Sensitivity. Nutrients, 2016, 8, 47.	1.7	54
31	Antagonistic effects of leucine and glutamine on the mTOR pathway in myogenic C2C12 cells. Amino Acids, 2008, 35, 147-155.	1.2	52
32	Endoplasmic Reticulum Stress in Skeletal Muscle. Exercise and Sport Sciences Reviews, 2012, 40, 43-49.	1.6	51
33	Urolithin B, a newly identified regulator of skeletal muscle mass. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 583-597.	2.9	51
34	Role of taurine in osmoregulation during endurance exercise. European Journal of Applied Physiology, 2002, 87, 489-495.	1.2	47
35	Creatine supplementation has no effect on human muscle protein turnover at rest in the postabsorptive or fed states. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E764-E770.	1.8	47
36	Effect of acute environmental hypoxia on protein metabolism in human skeletal muscle. Acta Physiologica, 2013, 208, 251-264.	1.8	47

#	Article	IF	Citations
37	TLR2 and TLR4 Activate p38 MAPK and JNK during Endurance Exercise in Skeletal Muscle. Medicine and Science in Sports and Exercise, 2012, 44, 1463-1472.	0.2	46
38	Anti-Inflammatory Effect of Exercise Mediated by Toll-Like Receptor Regulation in Innate Immune Cells â€“ A Review. International Reviews of Immunology, 2020, 39, 39-52.	1.5	46
39	Changes in plasma and urinary taurine and amino acids in runners immediately and 24 h after a marathon. Amino Acids, 2001, 20, 13-23.	1.2	44
40	Calcium Sensitivity of Human Single Muscle Fibers following Plyometric Training. Medicine and Science in Sports and Exercise, 2006, 38, 1901-1908.	0.2	44
41	ER Stress Induces Anabolic Resistance in Muscle Cells through PKB-Induced Blockade of mTORC1. PLoS ONE, 2011, 6, e20993.	1.1	43
42	Hepatic steatosis in n-3 fatty acid depleted mice: focus on metabolic alterations related to tissue fatty acid composition. BMC Physiology, 2008, 8, 21.	3.6	42
43	Kinetics of creatine ingested as a food ingredient. European Journal of Applied Physiology, 2007, 102, 133-143.	1.2	39
44	Activation of ER stress by hydrogen peroxide in C2C12 myotubes. Biochemical and Biophysical Research Communications, 2014, 450, 459-463.	1.0	39
45	Prevention of muscle disuse atrophy by MG132 proteasome inhibitor. Muscle and Nerve, 2011, 43, 708-715.	1.0	38
46	Role of Alpha-actinin-3 in Contractile Properties of Human Single Muscle Fibers: A Case Series Study in Paraplegics. PLoS ONE, 2012, 7, e49281.	1.1	36
47	Endurance training in mice increases the unfolded protein response induced by a high-fat diet. Journal of Physiology and Biochemistry, 2013, 69, 215-225.	1.3	36
48	Renal dysfunction accompanying oral creatine supplements. Lancet, The, 1998, 352, 234.	6.3	35
49	Effect of Exogenous Creatine Supplementation on Muscle PCr Metabolism. International Journal of Sports Medicine, 2000, 21, 139-145.	0.8	35
50	Comparison of new forms of creatine in raising plasma creatine levels. Journal of the International Society of Sports Nutrition, 2007, 4, 17.	1.7	35
51	Potential harmful effects of dietary supplements in sports medicine. Current Opinion in Clinical Nutrition and Metabolic Care, 2016, 19, 439-445.	1.3	33
52	Lack of Activation of Mitophagy during Endurance Exercise in Human. Medicine and Science in Sports and Exercise, 2017, 49, 1552-1561.	0.2	33
53	The unfolded protein response in human skeletal muscle is not involved in the onset of glucose tolerance impairment induced by a fat-rich diet. European Journal of Applied Physiology, 2011, 111, 1553-1558.	1.2	32
54	Glucocorticoid-dependent REDD1 expression reduces muscle metabolism to enable adaptation under energetic stress. BMC Biology, 2018, 16, 65.	1.7	32

#	Article	IF	Citations
55	What Do Single-Fiber Studies Tell Us about Exercise Training?. Medicine and Science in Sports and Exercise, 2007, 39, 1051-1060.	0.2	30
56	Fractional Exhaled NO and Serum Pneumoproteins after Swimming in a Chlorinated Pool. Medicine and Science in Sports and Exercise, 2008, 40, 1472-1476.	0.2	30
57	Activating transcription factor 3 attenuates chemokine and cytokine expression in mouse skeletal muscle after exercise and facilitates molecular adaptation to endurance training. FASEB Journal, 2017, 31, 840-851.	0.2	30
58	Evidence for ACTN3 as a Speed Gene in Isolated Human Muscle Fibers. PLoS ONE, 2016, 11, e0150594.	1.1	30
59	Increased p70s6k phosphorylation during intake of a proteinâ€“carbohydrate drink following resistance exercise in the fasted state. European Journal of Applied Physiology, 2010, 108, 791-800.	1.2	29
60	31P NMR saturation transfer study of the creatine kinase reaction in human skeletal muscle at rest and during exercise. Magnetic Resonance in Medicine, 1997, 37, 744-753.	1.9	28
61	Exercise and the control of muscle mass in human. Pflugers Archiv European Journal of Physiology, 2019, 471, 397-411.	1.3	28
62	Regulation of ubiquitin-proteasome and autophagy pathways after acute LPS and epoxomicin administration in mice. BMC Musculoskeletal Disorders, 2014, 15, 166.	0.8	27
63	Changes in plasma taurine levels after different endurance events. Amino Acids, 1999, 16, 71-77.	1.2	26
64	Toll-like receptor signalling induced by endurance exerciseThis paper is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise ConferenceÂâ€“ Muscles as Molecular and Metabolic Machines, and has undergone the Journalâ€™s usual peer review process.. Applied Physiology, Nutrition and Metabolism, 2009, 34, 454-458.	0.9	26
65	Pomegranate and green tea extracts protect against ER stress induced by a high-fat diet in skeletal muscle of mice. European Journal of Nutrition, 2015, 54, 377-389.	1.8	24
66	Toll like receptor expression induced by exercise in obesity and metabolic syndrome: A systematic review. Exercise Immunology Review, 2018, 24, 60-71.	0.4	24
67	Aging related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. Biochemical and Biophysical Research Communications, 2015, 468, 702-707.	1.0	22
68	Side Effects of Creatine Supplementation in Athletes. International Journal of Sports Physiology and Performance, 2006, 1, 311-323.	1.1	21
69	Pomegranate extract prevents skeletal muscle of mice against wasting induced by acute TNFâ€Î± injection. Molecular Nutrition and Food Research, 2017, 61, 1600169.	1.5	21
70	Cutaneous Vascular Response and Thermoregulation in Individuals With Paraplegia During Sustained Arm-Cranking Exercise. International Journal of Sports Medicine, 2001, 22, 97-102.	0.8	20
71	Environmental hypoxia favors myoblast differentiation and fast phenotype but blunts activation of protein synthesis after resistance exercise in human skeletal muscle. FASEB Journal, 2018, 32, 5272-5284.	0.2	20
72	Effect of creatine supplementation on skeletal muscle ofmdx mice. Muscle and Nerve, 2004, 29, 687-692.	1.0	19

#	Article	IF	Citations
73	Recommendations for Healthy Nutrition in Female Endurance Runners: An Update. Frontiers in Nutrition, 2015, 2, 17.	1.6	18
74	Cutaneous vasomotor adjustments during arm-cranking in individuals with paraplegia. European Journal of Applied Physiology, 2000, 83, 539-544.	1.2	17
75	CENTRAL AND PERIPHERAL HAEMODYNAMICS IN INDIVIDUALS WITH PARAPLEGIA DURING LIGHT AND HEAVY EXERCISE. Journal of Rehabilitation Medicine, 2001, 33, 16-20.	0.8	16
76	Acute vs chronic hypoxia: what are the consequences for skeletal muscle mass?. Cellular and Molecular Exercise Physiology, 2013, 2, .	0.7	16
77	Functional food for exercise performance: fact or foe?. Current Opinion in Clinical Nutrition and Metabolic Care, 2008, 11, 774-781.	1.3	15
78	Lack of Effects of Creatine on the Regeneration of Soleus Muscle after Injury in Rats. Medicine and Science in Sports and Exercise, 2009, 41, 1761-1769.	0.2	15
79	Using polyphenol derivatives to prevent muscle wasting. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 159-163.	1.3	14
80	Blood distribution adaptations in paraplegics during posture changes: peripheral and central reflex responses. European Journal of Applied Physiology, 2000, 81, 463-469.	1.2	13
81	Fifteen days of 3,200 m simulated hypoxia marginally regulates markers for protein synthesis and degradation in human skeletal muscle. Hypoxia (Auckland, N Z), 2016, 4, 1.	1.9	13
82	Activating transcription factor 3 regulates chemokine expression in contracting C2C12 myotubes and in mouse skeletal muscle after eccentric exercise. Biochemical and Biophysical Research Communications, 2017, 492, 249-254.	1.0	13
83	A study of lactate metabolism without tracer during passive and active postexercise recovery in humans. European Journal of Applied Physiology and Occupational Physiology, 1995, 72, 58-66.	1.2	10
84	Contribution of Nonesterified Fatty Acids to Mitogen-Activated Protein Kinase Activation in Human Skeletal Muscle During Endurance Exercise. International Journal of Sport Nutrition and Exercise Metabolism, 2013, 23, 201-209.	1.0	10
85	Endurance Training Attenuates Catabolic Signals Induced by TNF-Î± in Muscle of Mice. Medicine and Science in Sports and Exercise, 2016, 48, 227-234.	0.2	9
86	The stiffness response of type IIa fibres after eccentric exerciseâ€induced muscle damage is dependent on ACTN3 r577X polymorphism. European Journal of Sport Science, 2019, 19, 480-489.	1.4	9
87	Muscle structural, energetic and functional benefits of endurance exercise training in sickle cell disease. American Journal of Hematology, 2020, 95, 1257-1268.	2.0	9
88	TLR2 and TLR4 activation induces p38 MAPK-dependent phosphorylation of S6 kinase 1 in C2C12 myotubes. Cell Biology International, 2012, 36, 1107-1113.	1.4	8
89	Myoferlin Is a Yet Unknown Interactor of the Mitochondrial Dynamicsâ€™ Machinery in Pancreas Cancer Cells. Cancers, 2020, 12, 1643.	1.7	8
90	Effects of Sprint Interval Training at Different Altitudes on Cycling Performance at Sea-Level. Sports, 2020, 8, 148.	0.7	7

#	Article	IF	Citations
91	Auto-efficacitÃ© perÃ§ue pour la pratique d'une activitÃ© physique: Adaptation et validation francophone du Exercise Confidence Survey.. Canadian Journal of Behavioural Science, 2012, 44, 77-82.	0.5	6
92	Higher strength gain after hypoxic vs normoxic resistance training despite no changes in muscle thickness and fractional protein synthetic rate. FASEB Journal, 2021, 35, e21773.	0.2	6
93	Mesure de la balance dÃ©cisionnelle en vue de pratiquer une activitÃ© physique rÃ©guliÃ¨re (BDAP)Â: adaptation et validation francophone de lâ€™Ã©chelle Decisional Balance for Exercise. Revue Europeenne De Psychologie Appliquee, 2013, 63, 185-191.	0.4	5
94	IRE1Î± and TRB3 do not contribute to the disruption of proximal insulin signaling caused by palmitate in C2C12 myotubes. Cell Biology International, 2016, 40, 91-99.	1.4	5
95	Les effets indÃ©sirables de la crÃ©atine exogÃ¨ne: de la fiction Ã la rÃ©alitÃ©. Science and Sports, 1999, 14, 271-277.	0.2	4
96	Mesure des processus de changement vis-Ã-vis de la pratique dâ€™une activitÃ© physique rÃ©guliÃ¨re (QPC)Â: adaptation et validation francophone du questionnaire Exercise processes of change. Science and Sports, 2012, 27, 333-344.	0.2	4
97	Regulation of satellite cells by exercise in hypoxic conditions: a narrative review. European Journal of Applied Physiology, 2021, 121, 1531-1542.	1.2	4
98	Creatine Consumption in Health. , 2008, , 127-172.		4
99	Impedance cardiography applied to maximal arm cranking exercise: a matter of sampling and processing strategy. Medicine and Science in Sports and Exercise, 1998, 30, 1321-1327.	0.2	4
100	On the modeling of breath-by-breath oxygen uptake kinetics at the onset of high-intensity exercises: simulated annealing vs. GRG2 method. Journal of Applied Physiology, 2006, 100, 1049-1058.	1.2	3
101	Effect of environmental feedbacks on pacing strategy and affective load during a self-paced 30 min cycling time trial. Journal of Sports Sciences, 2019, 37, 291-297.	1.0	2
102	Simplified indices of exercise tolerance in patients with multiple sclerosis and healthy subjects: A caseâ€control study. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 1908-1917.	1.3	2
103	Muscle energetics in immunosuppressed patients. Transplantation Proceedings, 2000, 32, 415-417.	0.3	1
104	EFFECT OF CREATINE AND GUANIDINO-PROPIONIC ACID ON MYOTUBE GROWTH. Medicine and Science in Sports and Exercise, 2001, 33, S67.	0.2	1
105	Free magnesium concentration in isolated rabbit hearts subjected to high dose isoproterenol infusion: a ³¹P NMR study. Canadian Journal of Physiology and Pharmacology, 1997, 75, 1015-1021.	0.7	1
106	Effets de la supplÃ©mentation en crÃ©atine sur la cinÃ©tique de rÃ©gÃ©nÃ©rescence du muscle squelettique aprÃ¨s lÃ©sion Ã©tendue. Science and Sports, 2005, 20, 187-189.	0.2	0
107	Augmentation de l'ARNm d'IGF musculaire par la crÃ©atine. Science and Sports, 2005, 20, 190-192.	0.2	0
108	CrÃ©atine, exercice et synthÃ¨se protÃ©ique musculaire. Science and Sports, 2005, 20, 184-186.	0.2	0

#	Article	IF	Citations
109	Regulation of (Macro)-Autophagy in Response to Exercise. , 2015, , 229-243.		0