

Peter JI Hespel

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7795216/peter-ji-hespel-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

4,130
citations

37
h-index

62
g-index

107
ext. papers

4,584
ext. citations

3.6
avg, IF

5.2
L-index

#	Paper	IF	Citations
105	Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. <i>Nature Genetics</i> , 2008 , 40, 170-80	36.3	383
104	Oral creatine supplementation facilitates the rehabilitation of disuse atrophy and alters the expression of muscle myogenic factors in humans. <i>Journal of Physiology</i> , 2001 , 536, 625-33	3.9	217
103	Human sarcopenia reveals an increase in SOCS-3 and myostatin and a reduced efficiency of Akt phosphorylation. <i>Rejuvenation Research</i> , 2008 , 11, 163-175B	2.6	198
102	ACTN3 (R577X) genotype is associated with fiber type distribution. <i>Physiological Genomics</i> , 2007 , 32, 58-63	3.6	197
101	Disruption of skeletal muscle mitochondrial network genes and miRNAs in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2013 , 49, 107-17	7.5	137
100	Beneficial metabolic adaptations due to endurance exercise training in the fasted state. <i>Journal of Applied Physiology</i> , 2011 , 110, 236-45	3.7	124
99	Dietary nitrate improves muscle but not cerebral oxygenation status during exercise in hypoxia. <i>Journal of Applied Physiology</i> , 2012 , 113, 736-45	3.7	109
98	Human skeletal muscle atrophy in amyotrophic lateral sclerosis reveals a reduction in Akt and an increase in atrogin-1. <i>FASEB Journal</i> , 2006 , 20, 583-5	0.9	109
97	Aerodynamic study of different cyclist positions: CFD analysis and full-scale wind-tunnel tests. <i>Journal of Biomechanics</i> , 2010 , 43, 1262-8	2.9	100
96	Skeletal muscle properties in a transgenic mouse model for amyotrophic lateral sclerosis: effects of creatine treatment. <i>Neurobiology of Disease</i> , 2003 , 13, 264-72	7.5	90
95	Androgen signaling in myocytes contributes to the maintenance of muscle mass and fiber type regulation but not to muscle strength or fatigue. <i>Endocrinology</i> , 2009 , 150, 3558-66	4.8	88
94	Acute Rhodiola rosea intake can improve endurance exercise performance. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2004 , 14, 298-307	4.4	88
93	CFD simulations of the aerodynamic drag of two drafting cyclists. <i>Computers and Fluids</i> , 2013 , 71, 435-445	8.3	83
92	Beta-alanine improves sprint performance in endurance cycling. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 898-903	1.2	82
91	A satellite cell-specific knockout of the androgen receptor reveals myostatin as a direct androgen target in skeletal muscle. <i>FASEB Journal</i> , 2014 , 28, 2979-94	0.9	73
90	Effect of endurance training on blood pressure at rest, during exercise and during 24 hours in sedentary men. <i>American Journal of Cardiology</i> , 1989 , 63, 945-9	3	73
89	Phosphocreatine resynthesis is not affected by creatine loading. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 236-42	1.2	73

88	Creatine enhances differentiation of myogenic C2C12 cells by activating both p38 and Akt/PKB pathways. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1263-71	5.4	71
87	Effects of creatine supplementation and exercise training on fitness in men 55-75 yr old. <i>Journal of Applied Physiology</i> , 2003 , 95, 818-28	3.7	69
86	Evaluation of stroke performance in tennis. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 1281-8	1.2	67
85	Sprint interval training in hypoxia stimulates glycolytic enzyme activity. <i>Medicine and Science in Sports and Exercise</i> , 2013 , 45, 2166-74	1.2	65
84	Training in the fasted state improves glucose tolerance during fat-rich diet. <i>Journal of Physiology</i> , 2010 , 588, 4289-302	3.9	62
83	Carbohydrate supplementation improves stroke performance in tennis. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 1289-95	1.2	62
82	A new method for non-invasive estimation of human muscle fiber type composition. <i>PLoS ONE</i> , 2011 , 6, e21956	3.7	59
81	Protective role of alpha-actinin-3 in the response to an acute eccentric exercise bout. <i>Journal of Applied Physiology</i> , 2010 , 109, 564-73	3.7	59
80	Combined creatine and protein supplementation in conjunction with resistance training promotes muscle GLUT-4 content and glucose tolerance in humans. <i>Journal of Applied Physiology</i> , 2003 , 94, 1910-6	3.7	59
79	Computational fluid dynamics analysis of cyclist aerodynamics: performance of different turbulence-modelling and boundary-layer modelling approaches. <i>Journal of Biomechanics</i> , 2010 , 43, 2281-9	2.9	58
78	Effects of high altitude and cold air exposure on airway inflammation in patients with asthma. <i>Thorax</i> , 2013 , 68, 906-13	7.3	54
77	Important role of insulin and flow in stimulating glucose uptake in contracting skeletal muscle. <i>Diabetes</i> , 1995 , 44, 210-5	0.9	54
76	Ketone ester supplementation blunts overreaching symptoms during endurance training overload. <i>Journal of Physiology</i> , 2019 , 597, 3009-3027	3.9	47
75	Soleus muscles of SAMP8 mice provide an accelerated model of skeletal muscle senescence. <i>Experimental Gerontology</i> , 2005 , 40, 562-72	4.5	47
74	Biochemical artifacts in experiments involving repeated biopsies in the same muscle. <i>Physiological Reports</i> , 2014 , 2, e00286	2.6	46
73	Intake of a Ketone Ester Drink during Recovery from Exercise Promotes mTORC1 Signaling but Not Glycogen Resynthesis in Human Muscle. <i>Frontiers in Physiology</i> , 2017 , 8, 310	4.6	43
72	Endoplasmic reticulum stress in skeletal muscle: origin and metabolic consequences. <i>Exercise and Sport Sciences Reviews</i> , 2012 , 40, 43-9	6.7	43
71	Computational fluid dynamics analysis of drag and convective heat transfer of individual body segments for different cyclist positions. <i>Journal of Biomechanics</i> , 2011 , 44, 1695-701	2.9	40

70	Acute environmental hypoxia induces LC3 lipidation in a genotype-dependent manner. <i>FASEB Journal</i> , 2014 , 28, 1022-34	0.9	38
69	Plasma guanidino compounds are altered by oral creatine supplementation in healthy humans. <i>Journal of Applied Physiology</i> , 2004 , 97, 852-7	3.7	38
68	Cyclist drag in team pursuit: influence of cyclist sequence, stature, and arm spacing. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 011005	2.1	34
67	Role of adenosine in regulating glucose uptake during contractions and hypoxia in rat skeletal muscle. <i>Journal of Physiology</i> , 1999 , 515 (Pt 1), 255-63	3.9	30
66	Cafeteria diet-induced insulin resistance is not associated with decreased insulin signaling or AMPK activity and is alleviated by physical training in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E215-24	6	29
65	Creatine supplementation: exploring the role of the creatine kinase/phosphocreatine system in human muscle. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2001 , 26 Suppl, S79-102		29
64	Effects of post-absorptive and postprandial exercise on glucoregulation in metabolic syndrome. <i>Obesity</i> , 2007 , 15, 704-11	8	28
63	The unfolded protein response in human skeletal muscle is not involved in the onset of glucose tolerance impairment induced by a fat-rich diet. <i>European Journal of Applied Physiology</i> , 2011 , 111, 1553-8	3.4	27
62	Nutrition for the sprinter. <i>Journal of Sports Sciences</i> , 2007 , 25 Suppl 1, S5-15	3.6	27
61	Creatine supplementation in health and disease: What is the evidence for long-term efficacy?. <i>Molecular and Cellular Biochemistry</i> , 2003 , 244, 49-55	4.2	25
60	Increased p70s6k phosphorylation during intake of a protein-carbohydrate drink following resistance exercise in the fasted state. <i>European Journal of Applied Physiology</i> , 2010 , 108, 791-800	3.4	24
59	Effect of isokinetic cycling versus weight training on maximal power output and endurance performance in cycling. <i>European Journal of Applied Physiology</i> , 2010 , 109, 699-708	3.4	23
58	Nitrate Intake Promotes Shift in Muscle Fiber Type Composition during Sprint Interval Training in Hypoxia. <i>Frontiers in Physiology</i> , 2016 , 7, 233	4.6	23
57	Additive insulinogenic action of <i>Opuntia ficus-indica</i> cladode and fruit skin extract and leucine after exercise in healthy males. <i>Journal of the International Society of Sports Nutrition</i> , 2013 , 10, 45	4.5	22
56	Short-term creatine supplementation does not alter the hormonal response to resistance training. <i>Medicine and Science in Sports and Exercise</i> , 2001 , 33, 449-53	1.2	21
55	No effect of glycogen level on glycogen metabolism during high intensity exercise. <i>Medicine and Science in Sports and Exercise</i> , 1995 , 27, 1278-1283	1.2	21
54	Exogenous ketosis impacts neither performance nor muscle glycogen breakdown in prolonged endurance exercise. <i>Journal of Applied Physiology</i> , 2020 , 128, 1643-1653	3.7	19
53	AMP kinase expression and activity in human skeletal muscle: effects of immobilization, retraining, and creatine supplementation. <i>Journal of Applied Physiology</i> , 2005 , 98, 1228-33	3.7	19

52	Simultaneous determination of nitrite and nitrate in human plasma by on-capillary preconcentration with field-amplified sample stacking. <i>Electrophoresis</i> , 2012 , 33, 402-5	3.6	18
51	<i>Opuntia ficus-indica</i> ingestion stimulates peripheral disposal of oral glucose before and after exercise in healthy men. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2012 , 22, 284-91-4	4.4	18
50	Physical Activity Counteracts Tumor Cell Growth in Colon Carcinoma C26-Injected Muscles: An Interim Report. <i>European Journal of Translational Myology</i> , 2016 , 26, 5958	2.1	18
49	Creatine supplementation increases soleus muscle creatine content and lowers the insulinogenic index in an animal model of inherited type 2 diabetes. <i>International Journal of Molecular Medicine</i> , 2006 , 17, 1077-84	4.4	18
48	Enhanced muscular oxygen extraction in athletes exaggerates hypoxemia during exercise in hypoxia. <i>Journal of Applied Physiology</i> , 2016 , 120, 351-61	3.7	17
47	High-fat diet overrules the effects of training on fiber-specific intramyocellular lipid utilization during exercise. <i>Journal of Applied Physiology</i> , 2011 , 111, 108-16	3.7	17
46	Creatine supplementation augments skeletal muscle carnosine content in senescence-accelerated mice (SAMP8). <i>Rejuvenation Research</i> , 2008 , 11, 641-7	2.6	17
45	Progressive attenuation of the carotid baroreflex control of blood pressure and heart rate during exercise. <i>American Heart Journal</i> , 1987 , 114, 765-72	4.9	17
44	Role of adenosine in regulation of carbohydrate metabolism in contracting muscle. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 441, 97-106	3.6	17
43	Ergogenic effects of creatine in sports and rehabilitation. <i>Sub-Cellular Biochemistry</i> , 2007 , 46, 245-59	5.5	17
42	Bicarbonate Unlocks the Ergogenic Action of Ketone Monoester Intake in Endurance Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 431-441	1.2	16
41	Plasma carnosine, but not muscle carnosine, attenuates high-fat diet-induced metabolic stress. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 868-76	3	15
40	Effect of muscle creatine content manipulation on contractile properties in mouse muscles. <i>Muscle and Nerve</i> , 2004 , 29, 428-35	3.4	13
39	The creatine content of Creatine Serum and the change in the plasma concentration with ingestion of a single dose. <i>Journal of Sports Sciences</i> , 2004 , 22, 851-7	3.6	13
38	Effects of opioid antagonism on the haemodynamic and hormonal responses to exercise. <i>Clinical Science</i> , 1988 , 75, 293-300	6.5	13
37	PASSCLAIM - Physical performance and fitness. <i>European Journal of Nutrition</i> , 2003 , 42 Suppl 1, I50-95	5.2	12
36	No effects of lifelong creatine supplementation on sarcopenia in senescence-accelerated mice (SAMP8). <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E272-7	6	12
35	Influence of beta 1- versus beta 2-adrenoceptor blockade on left ventricular function in humans. <i>Journal of Cardiovascular Pharmacology</i> , 1986 , 8, 1086-91	3.1	12

34	Physiological Adaptations to Hypoxic vs. Normoxic Training during Intermittent Living High. <i>Frontiers in Physiology</i> , 2017 , 8, 347	4.6	11
33	Exercise-induced, but not creatine-induced, decrease in intramyocellular lipid content improves insulin sensitivity in rats. <i>Journal of Nutritional Biochemistry</i> , 2011 , 22, 1178-85	6.3	9
32	Exogenous Ketosis Impairs 30-min Time-Trial Performance Independent of Bicarbonate Supplementation. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 1068-1078	1.2	9
31	A noninterfering system to measure in-cage spontaneous physical activity in mice. <i>Journal of Applied Physiology</i> , 2018 , 125, 263-270	3.7	8
30	Twin Resemblance in Muscle HIF-1 α Responses to Hypoxia and Exercise. <i>Frontiers in Physiology</i> , 2016 , 7, 676	4.6	8
29	High twin resemblance for sensitivity to hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 74-81	1.2	8
28	Electrolysis stimulates creatine transport and transporter cell surface expression in incubated mouse skeletal muscle: potential role of ROS. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E1250-7	6	8
27	Effect of a novel pedal design on maximal power output and mechanical efficiency in well-trained cyclists. <i>Journal of Sports Sciences</i> , 2008 , 26, 1015-23	3.6	7
26	Oral creatine supplementation in humans does not elevate urinary excretion of the carcinogen N-nitrososarcosine. <i>Nutrition</i> , 2006 , 22, 332-3	4.8	7
25	Training effects on muscle glucose transport during exercise. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 441, 107-16	3.6	7
24	A genetic predisposition score associates with reduced aerobic capacity in response to acute normobaric hypoxia in lowlanders. <i>High Altitude Medicine and Biology</i> , 2015 , 16, 34-42	1.9	6
23	Effect of calcium antagonism on intracellular concentrations and transmembrane fluxes of cations in erythrocytes of men at rest and during exercise. <i>Journal of Hypertension</i> , 1986 , 4, 767-72	1.9	6
22	Effect of Stacked Sodium Bicarbonate Loading on Repeated All-out Exercise. <i>International Journal of Sports Medicine</i> , 2019 , 40, 711-716	3.6	5
21	Creatine supplementation increases soleus muscle creatine content and lowers the insulinogenic index in an animal model of inherited type 2 diabetes. <i>International Journal of Molecular Medicine</i> , 2006 , 17, 1077	4.4	5
20	Changes in erythrocyte sodium and plasma lipids associated with physical training. <i>Journal of Hypertension</i> , 1988 , 6, 159-166	1.9	5
19	Acute systemic insulin intolerance does not alter the response of the Akt/GSK-3 pathway to environmental hypoxia in human skeletal muscle. <i>European Journal of Applied Physiology</i> , 2015 , 115, 1219-31	3.4	4
18	Hyperglycemic diet and training alter insulin sensitivity, intramyocellular lipid content but not UCP3 protein expression in rat skeletal muscles. <i>International Journal of Molecular Medicine</i> , 2010 , 25, 905-13	4.4	4
17	High-intensity interval training in hypoxia does not affect muscle HIF responses to acute hypoxia in humans. <i>European Journal of Applied Physiology</i> , 2018 , 118, 847-862	3.4	3

16	Erythrocyte and leucocyte sodium and potassium transport systems during long-term diuretic administration in men. <i>Journal of Hypertension</i> , 1988 , 6, 639-45	1.9	3
15	Ketone bodies: beyond their role as a potential energy substrate in exercise. <i>Journal of Physiology</i> , 2020 , 598, 4749-4750	3.9	3
14	Sodium bicarbonate improves sprint performance in endurance cycling. <i>Journal of Science and Medicine in Sport</i> , 2020 ,	4.4	3
13	Ergogenic Effects of Creatine in Sports and Rehabilitation 2007 , 246-259		3
12	Creatine supplementation in health and disease: what is the evidence for long-term efficacy?. <i>Molecular and Cellular Biochemistry</i> , 2003 , 244, 49-55	4.2	3
11	Surprises in cycling aerodynamics. <i>Europhysics News</i> , 2013 , 44, 20-23	0.2	2
10	Carotid baroreflex sensitivity at rest and during exercise is not influenced by opioid receptor antagonism. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1989 , 59, 131-7		2
9	Reply from Chiel Poff□Monique Ramaekers, Ruud Van Thienen and Peter Hespel. <i>Journal of Physiology</i> , 2019 , 597, 4679-4680	3.9	1
8	Reply from Chiel Poff□Monique Ramaekers, Ruud Van Thienen and Peter Hespel. <i>Journal of Physiology</i> , 2019 , 597, 4409-4410	3.9	1
7	Reply from Chiel Poff□Monique Ramaekers and Peter Hespel. <i>Journal of Physiology</i> , 2019 , 597, 5309-5319	3.9	1
6	Exogenous ketosis increases blood and muscle oxygenation but not performance during exercise in hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 321, R844-R857	3.2	1
5	Voluntary exercise does not improve muscular properties or functional capacity during C26-induced cancer cachexia in mice. <i>Journal of Muscle Research and Cell Motility</i> , 2021 , 42, 169-181	3.5	1
4	Cycling 2013 , 584-595		
3	Effects Of Training In The Fasted State In Conjunction With Fat-rich diet On Muscle Metabolism. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 42	1.2	
2	Impact of Oral Creatine Supplementation on Muscle Performance During Training and Rehabilitation. <i>Medical Science Symposia Series</i> , 2000 , 65-73		
1	Creatine supplementation in health and disease: What is the evidence for long-term efficacy? 2003 , 49-55		