

Brian D Roy

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,877
citations

279778

23
h-index

265191

42
g-index

74
all docs

74
docs citations

74
times ranked

2070
citing authors

#	ARTICLE	IF	CITATIONS
1	Postexercise protein-carbohydrate and carbohydrate supplements increase muscle glycogen in men and women. <i>Journal of Applied Physiology</i> , 1997, 83, 1877-1883.	2.5	165
2	Resistance-training-induced adaptations in skeletal muscle protein turnover in the fed state. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002, 80, 1045-1053.	1.4	140
3	Creatine Monohydrate and Conjugated Linoleic Acid Improve Strength and Body Composition Following Resistance Exercise in Older Adults. <i>PLoS ONE</i> , 2007, 2, e991.	2.5	120
4	Increases in submaximal cycling efficiency mediated by altitude acclimatization. <i>Journal of Applied Physiology</i> , 2000, 89, 1189-1197.	2.5	91
5	Human neuromuscular fatigue is associated with altered Na ⁺ -K ⁺ -ATPase activity following isometric exercise. <i>Journal of Applied Physiology</i> , 2002, 92, 1585-1593.	2.5	90
6	Skeletal muscle PLIN proteins, ATGL and CGI-58, interactions at rest and following stimulated contraction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R644-R650.	1.8	76
7	Effect of Creatine Supplementation and Resistance-Exercise Training on Muscle Insulin-Like Growth Factor in Young Adults. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2008, 18, 389-398.	2.1	75
8	Myofibrillar disruption following acute concentric and eccentric resistance exercise in strength-trained men. <i>Canadian Journal of Physiology and Pharmacology</i> , 2000, 78, 656-661.	1.4	74
9	Influence of differing macronutrient intakes on muscle glycogen resynthesis after resistance exercise. <i>Journal of Applied Physiology</i> , 1998, 84, 890-896.	2.5	73
10	Downregulation in muscle Na ⁺ -K ⁺ -ATPase following a 21-day expedition to 6,194 m. <i>Journal of Applied Physiology</i> , 2000, 88, 634-640.	2.5	66
11	Milk: the new sports drink? A Review. <i>Journal of the International Society of Sports Nutrition</i> , 2008, 5, 15.	3.9	65
12	Skeletal Muscle Type Comparison of Subsarcolemmal Mitochondrial Membrane Phospholipid Fatty Acid Composition in Rat. <i>Journal of Membrane Biology</i> , 2010, 234, 207-215.	2.1	52
13	Attenuation of free radical production and paracrystalline inclusions by creatine supplementation in a patient with a novel cytochrome b mutation. <i>Muscle and Nerve</i> , 2004, 29, 537-547.	2.2	43
14	Influence of high-fat diet from differential dietary sources on bone mineral density, bone strength, and bone fatty acid composition in rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010, 35, 598-606.	1.9	41
15	The Influence of Post-exercise Macronutrient Intake on Energy Balance and Protein Metabolism in Active Females Participating in Endurance Training. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2002, 12, 172-188.	2.1	35
16	Creatine Monohydrate Increases Bone Mineral Density in Young Sprague-Dawley Rats. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 816-820.	0.4	34
17	The acute effects of differential dietary fatty acids on human skeletal muscle pyruvate dehydrogenase activity. <i>Journal of Applied Physiology</i> , 2008, 104, 1-9.	2.5	34
18	Skeletal muscle PLIN3 and PLIN5 are serine phosphorylated at rest and following lipolysis during adrenergic or contractile stimulation. <i>Physiological Reports</i> , 2013, 1, e00084.	1.7	33

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19	Macronutrient intake and whole body protein metabolism following resistance exercise. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 1412-1418.	0.4	32
20	The Effects of Acute Passive Stretch on Muscle Protein Synthesis in Humans. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2000, 25, 165-180.	1.7	32
21	Effects of Creatine Supplementation on Brain Function and Health. <i>Nutrients</i> , 2022, 14, 921.	4.1	30
22	Subcellular localization of skeletal muscle lipid droplets and PLIN family proteins OXPAT and ADRP at rest and following contraction in rat soleus muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R29-R36.	1.8	29
23	Dietary supplementation with creatine monohydrate prevents corticosteroid-induced attenuation of growth in young rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002, 80, 1008-1014.	1.4	28
24	Greek Yogurt and 12 Weeks of Exercise Training on Strength, Muscle Thickness and Body Composition in Lean, Untrained, University-Aged Males. <i>Frontiers in Nutrition</i> , 2019, 6, 55.	3.7	26
25	GSK3 inhibition with low dose lithium supplementation augments murine muscle fatigue resistance and specific force production. <i>Physiological Reports</i> , 2020, 8, e14517.	1.7	25
26	Creatine Monohydrate Supplementation Does Not Improve Functional Recovery After Total Knee Arthroplasty. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 1293-1298.	0.9	23
27	A Low-Therapeutic Dose of Lithium Inhibits GSK3 and Enhances Myoblast Fusion in C2C12 Cells. <i>Cells</i> , 2019, 8, 1340.	4.1	23
28	Paradoxical effects of prior activity on human sarcoplasmic reticulum Ca ²⁺ -ATPase response to exercise. <i>Journal of Applied Physiology</i> , 2003, 95, 138-144.	2.5	20
29	Effects of Exercise Training with Weighted Vests on Bone Turnover and Isokinetic Strength in Postmenopausal Women. <i>Journal of Aging and Physical Activity</i> , 2007, 15, 287-299.	1.0	20
30	Pyruvate dehydrogenase kinase-4 contributes to the recirculation of gluconeogenic precursors during postexercise glycogen recovery. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R102-R107.	1.8	20
31	Low dose lithium supplementation activates Wnt/ β -catenin signalling and increases bone OPG/RANKL ratio in mice. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 394-397.	2.1	19
32	Skeletal muscle type comparison of pyruvate dehydrogenase phosphatase activity and isoform expression: effects of obesity and endurance training. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1224-R1230.	1.8	18
33	Maternal High Fat Feeding Does Not Have Long-Lasting Effects on Body Composition and Bone Health in Female and Male Wistar Rat Offspring at Young Adulthood. <i>Molecules</i> , 2013, 18, 15094-15109.	3.8	17
34	Low-dose lithium feeding increases the SERCA2a α -phospholamban ratio, improving SERCA function in murine left ventricles. <i>Experimental Physiology</i> , 2020, 105, 666-675.	2.0	17
35	Effect of extracellular osmolality on cell volume and resting metabolism in mammalian skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R1994-R2000.	1.8	16
36	Increases in skeletal muscle ATGL and its inhibitor GOS2 following 8 weeks of endurance training in metabolically different rat skeletal muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R125-R133.	1.8	16

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37	An acute oral dose of caffeine does not alter glucose kinetics during prolonged dynamic exercise in trained endurance athletes. <i>European Journal of Applied Physiology</i> , 2001, 85, 280-286.	2.5	14
38	Effects of Post-Exercise Whey Protein Consumption on Recovery Indices in Adolescent Swimmers. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7761.	2.6	14
39	Effects of a 21-Day Expedition to 6194 m on Human Skeletal Muscle SR Ca ²⁺ -ATPase. <i>High Altitude Medicine and Biology</i> , 2000, 1, 301-310.	0.9	13
40	Prolonged Exercise Following Diuretic-Induced Hypohydration Effects on Fluid and Electrolyte Hormones. <i>Hormone and Metabolic Research</i> , 2001, 33, 540-547.	1.5	12
41	Consumption of Greek yogurt during 12 weeks of high-impact loading exercise increases bone formation in young, adult males – a secondary analysis from a randomized trial. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 91-100.	1.9	12
42	A Maternal High Fat Diet Has Long-Lasting Effects on Skeletal Muscle Lipid and PLIN Protein Content in Rat Offspring at Young Adulthood. <i>Lipids</i> , 2015, 50, 205-217.	1.7	11
43	Beyond its Psychiatric Use: The Benefits of Low-dose Lithium Supplementation. <i>Current Neuropharmacology</i> , 2023, 21, 891-910.	2.9	11
44	Acute Plasma Volume Expansion in the Untrained Alters the Hormonal Response to Prolonged Moderate-Intensity Exercise. <i>Hormone and Metabolic Research</i> , 2001, 33, 238-245.	1.5	10
45	Cellular responses in skeletal muscle to a season of ice hockey. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010, 35, 657-670.	1.9	10
46	Role of pyruvate dehydrogenase kinase 4 in regulating PDH activation during acute muscle contraction. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 48-52.	1.9	10
47	Conjugated linoleic acid prevents growth attenuation induced by corticosteroid administration and increases bone mineral content in young rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 1096-1104.	1.9	7
48	Associations of oral contraceptive use and dietary restraint with bone speed of sound and bone turnover in university-aged women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 696-705.	1.9	6
49	Characterization of Lipolytic Inhibitor G(0)/G(1) Switch Gene-2 Protein (GOS2) Expression in Male Sprague-Dawley Rat Skeletal Muscle Compared to Relative Content of Adipose Triglyceride Lipase (ATGL) and Comparative Gene Identification-58 (CGI-58). <i>PLoS ONE</i> , 2015, 10, e0120136.	2.5	5
50	Intensified training in adolescent female athletes: a crossover study of Greek yogurt effects on indices of recovery. <i>Journal of the International Society of Sports Nutrition</i> , 2022, 19, 17-33.	3.9	5
51	Effect of extracellular osmolality on metabolism in contracting mammalian skeletal muscle in vitro. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 1055-1064.	1.9	4
52	Effects of mild whole body hypothermia on self-paced exercise performance. <i>Journal of Applied Physiology</i> , 2018, 125, 479-485.	2.5	4
53	Creatine Monohydrate Supplementation Increases White Adipose Tissue Mitochondrial Markers in Male and Female Rats in a Depot Specific Manner. <i>Nutrients</i> , 2021, 13, 2406.	4.1	3
54	Circulating Levels of Bone Markers after Short-Term Intense Training with Increased Dairy Consumption in Adolescent Female Athletes. <i>Children</i> , 2021, 8, 961.	1.5	3

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55	Muscle cellular properties in the ice hockey player: a model for investigating overtraining?. Canadian Journal of Physiology and Pharmacology, 2012, 90, 567-578.	1.4	2
56	Extracellular hyperosmotic stress stimulates glucose uptake in incubated fast-twitch rat skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2013, 38, 605-612.	1.9	1
57	Elevated concentrations of circulating cytokines and correlations with nerve conduction velocity in human peripheral nerves. Journal of Neuroimmunology, 2014, 277, 134-139.	2.3	1
58	Sex- and tissue-dependent creatine uptake in response to different creatine monohydrate doses in male and female Sprague-Dawley rats. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1-5.	1.9	1
59	Glucose Ingestion to Increase Endurance Capacity in Patients with Diabetes. Clinical Journal of Sport Medicine, 1998, 8, 146.	1.8	0
60	Substrate Turnover and Oxidation During Moderate-Intensity Exercise Following Acute Plasma Volume Expansion. Hormone and Metabolic Research, 2002, 34, 93-101.	1.5	0
61	Lithium Inhibition of GSK3 Uncouples SERCA Transport Efficiency in C2C12 Cells and Alters Energy Expenditure <i>in vivo</i> . FASEB Journal, 2021, 35, .	0.5	0
62	Role of dairy foods in sport nutrition. , 2022, , 339-364.		0
63	Skeletal muscle pyruvate dehydrogenase phosphatase: effects of obesity and endurance training. FASEB Journal, 2006, 20, A815.	0.5	0
64	Adaptation of skeletal muscle pyruvate dehydrogenase kinase in response to starvation in mitochondrial subpopulations. FASEB Journal, 2006, 20, LB26.	0.5	0
65	Extracellular hyperosmolality increases resting skeletal muscle lactate in mammalian skeletal muscle. FASEB Journal, 2006, 20, A816.	0.5	0
66	Subcellular location and colocalization of lipid droplet proteins, ADRP and OXPAT, in resting and stimulated rat soleus. FASEB Journal, 2011, 25, 1104.10.	0.5	0
67	Muscle contraction uncouples interactions between skeletal muscle ATGL and lipid droplet protein PLIN2. FASEB Journal, 2012, 26, 1144.17.	0.5	0
68	Impact of maternal high saturated fat diet on bone lipid content in weanling and 3 month old female offspring. FASEB Journal, 2013, 27, lb415.	0.5	0
69	Higher intakes of low-fat milk combined with 12 weeks of endurance training does not result in lower fat mass and higher lean mass.. FASEB Journal, 2013, 27, lb777.	0.5	0
70	Maternal high fat diet results in altered body composition in first generation male offspring at weaning but not adulthood. FASEB Journal, 2013, 27, 244.8.	0.5	0
71	A maternal high fat diet has long-lasting effects on skeletal muscle lipid and PLIN protein content in rat offspring at young adulthood (1162.7). FASEB Journal, 2014, 28, 1162.7.	0.5	0
72	Maternal high fat feeding alters bone lipid content at weaning without long-lasting effects on bone lipid content and bone strength in male offspring at young adulthood (1033.7). FASEB Journal, 2014, 28, 1033.7.	0.5	0