

# Brian A Irving

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

3,260  
citations

201674

27  
h-index

149698

56  
g-index

66  
all docs

66  
docs citations

66  
times ranked

6162  
citing authors

#	ARTICLE	IF	CITATIONS
1	A PGC-1 $\beta$ Isoform Induced by Resistance Training Regulates Skeletal Muscle Hypertrophy. <i>Cell</i> , 2012, 151, 1319-1331.	28.9	548
2	Preoperative prediction of type 2 diabetes remission after Roux-en-Y gastric bypass surgery: a retrospective cohort study. <i>Lancet Diabetes and Endocrinology</i> , 2014, 2, 38-45.	11.4	278
3	Effect of Exercise Training Intensity on Abdominal Visceral Fat and Body Composition. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 1863-1872.	0.4	267
4	Age, Obesity, and Sex Effects on Insulin Sensitivity and Skeletal Muscle Mitochondrial Function. <i>Diabetes</i> , 2010, 59, 89-97.	0.6	242
5	Asian Indians Have Enhanced Skeletal Muscle Mitochondrial Capacity to Produce ATP in Association With Severe Insulin Resistance. <i>Diabetes</i> , 2008, 57, 1166-1175.	0.6	163
6	Precision exercise medicine: understanding exercise response variability. <i>British Journal of Sports Medicine</i> , 2019, 53, 1141-1153.	6.7	162
7	L-Citrulline Supplementation: Impact on Cardiometabolic Health. <i>Nutrients</i> , 2018, 10, 921.	4.1	130
8	NIH ImageJ and SliceOmatic Computed Tomography Imaging Software to Quantify Soft Tissue. <i>Obesity</i> , 2007, 15, 370-376.	3.0	125
9	Combined Training Enhances Skeletal Muscle Mitochondrial Oxidative Capacity Independent of Age. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 1654-1663.	3.6	94
10	Defects in Mitochondrial Efficiency and H <sub>2</sub> O <sub>2</sub> Emissions in Obese Women Are Restored to a Lean Phenotype With Aerobic Exercise Training. <i>Diabetes</i> , 2015, 64, 2104-2115.	0.6	89
11	Mechanism by Which Caloric Restriction Improves Insulin Sensitivity in Sedentary Obese Adults. <i>Diabetes</i> , 2016, 65, 74-84.	0.6	86
12	Effect of Insulin Sensitizer Therapy on Amino Acids and Their Metabolites. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 720-728.	3.4	77
13	Lack of Dehydroepiandrosterone Effect on a Combined Endurance and Resistance Exercise Program in Postmenopausal Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 534-538.	3.6	58
14	Differential Effect of Endurance Training on Mitochondrial Protein Damage, Degradation, and Acetylation in the Context of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1386-1393.	3.6	58
15	Effect of Testosterone on Insulin Stimulated IRS1 Ser Phosphorylation in Primary Rat Myotubes: A Potential Model for PCOS-Related Insulin Resistance. <i>PLoS ONE</i> , 2009, 4, e4274.	2.5	56
16	Unique Cellular and Mitochondrial Defects Mediate FK506-Induced Islet $\beta$ -Cell Dysfunction. <i>Transplantation</i> , 2011, 91, 615-623.	1.0	50
17	A High-Carbohydrate, High-Fiber Meal Improves Endothelial Function in Adults With the Metabolic Syndrome. <i>Diabetes Care</i> , 2006, 29, 2313-2315.	8.6	44
18	Does IRISIN Have a BRITE Future as a Therapeutic Agent in Humans?. <i>Current Obesity Reports</i> , 2014, 3, 235-241.	8.4	44

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19	Comparison of Borg- and OMNI-RPE as Markers of the Blood Lactate Response to Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 1348-1352.	0.4	41
20	The Effect of Branched Chain Amino Acids on Skeletal Muscle Mitochondrial Function in Young and Elderly Adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 894-902.	3.6	40
21	Nine Days of Intensive Exercise Training Improves Mitochondrial Function But Not Insulin Action in Adult Offspring of Mothers with Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E1137-E1141.	3.6	38
22	The Effect of Insurance Status on Pre- and Post-operative Bariatric Surgery Outcomes. <i>Obesity Surgery</i> , 2015, 25, 191-194.	2.1	37
23	Bariatric Surgery Patients and Their Families: Health, Physical Activity, and Social Support. <i>Obesity Surgery</i> , 2016, 26, 2981-2988.	2.1	35
24	Effects of Exercise Training Intensity on Nocturnal Growth Hormone Secretion in Obese Adults with the Metabolic Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 1979-1986.	3.6	34
25	Walking and Running Economy. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 2122-2127.	0.4	31
26	Effect of Dehydroepiandrosterone Replacement on Lipoprotein Profile in Hypoadrenal Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 761-764.	3.6	29
27	A Wearable Pulse Oximeter With Wireless Communication and Motion Artifact Tailoring for Continuous Use. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1505-1513.	4.2	28
28	The Effects of Time following Acute Growth Hormone Administration on Metabolic and Power Output Measures during Acute Exercise. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 4298-4305.	3.6	27
29	Age effect on myocellular remodeling: Response to exercise and nutrition in humans. <i>Ageing Research Reviews</i> , 2012, 11, 374-389.	10.9	23
30	Differential effects of insulin deprivation and systemic insulin treatment on plasma protein synthesis in type 1 diabetic people. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E889-E897.	3.5	20
31	Effects on Lipoprotein Particles of Long-Term Dehydroepiandrosterone in Elderly Men and Women and Testosterone in Elderly Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 1617-1625.	3.6	19
32	Spillover of Fatty Acids During Dietary Fat Storage in Type 2 Diabetes. <i>Diabetes</i> , 2013, 62, 1897-1903.	0.6	19
33	Potential Application of Essential Amino Acid Supplementation to Treat Sarcopenia in Elderly People. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 1524-1526.	3.6	18
34	Limited predictive ability of surrogate indices of insulin sensitivity/resistance in Asian-Indian men. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 299, E1106-E1112.	3.5	17
35	Effect of Insulin Sensitizer Therapy on Atherothrombotic and Inflammatory Profiles Associated With Insulin Resistance. <i>Mayo Clinic Proceedings</i> , 2012, 87, 561-570.	3.0	15
36	Reliability of the VmaxST Portable Metabolic Measurement System. <i>International Journal of Sports Medicine</i> , 2009, 30, 22-26.	1.7	14

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37	Nutrient Transporter Expression in the Jejunum in Relation to Body Mass Index in Patients Undergoing Bariatric Surgery. <i>Nutrients</i> , 2016, 8, 683.	4.1	13
38	Effects of Insulin Sensitivity, Body Composition, and Fitness on Lipoprotein Particle Sizes and Concentrations Determined by Nuclear Magnetic Resonance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E713-E718.	3.6	12
39	Application of high-resolution mass spectrometry to measure low abundance isotope enrichment in individual muscle proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4045-4052.	3.7	12
40	Surgical weight-loss to improve functional status trajectories following total knee arthroplasty: SWIFT trial: Rationale, design, and methods. <i>Contemporary Clinical Trials</i> , 2018, 69, 1-9.	1.8	12
41	Commentaries on Viewpoint: Rejuvenation of the term sarcopenia. <i>Journal of Applied Physiology</i> , 2019, 126, 257-262.	2.5	12
42	Aging and diabetes: Mitochondrial dysfunction. <i>Current Diabetes Reports</i> , 2007, 7, 249-251.	4.2	11
43	Differences emerge in visceral adipose tissue accumulation after selection for innate cardiovascular fitness. <i>International Journal of Obesity</i> , 2011, 35, 309-312.	3.4	11
44	Function-Based Discovery of Significant Transcriptional Temporal Patterns in Insulin Stimulated Muscle Cells. <i>PLoS ONE</i> , 2012, 7, e32391.	2.5	11
45	Does Citrulline Sit at the Nexus of Metformin's Pleiotropic Effects on Metabolism and Mediate Its Salutatory Effects in Individuals With Type 2 Diabetes?. <i>Diabetes</i> , 2016, 65, 3537-3540.	0.6	11
46	Breast cancer growth and proliferation is suppressed by the mitochondrial targeted furazano[3,4-b]pyrazine BAM15. <i>Cancer &amp; Metabolism</i> , 2021, 9, 36.	5.0	11
47	Pilot study: an acute bout of high intensity interval exercise increases 12.5Åh GH secretion. <i>Physiological Reports</i> , 2018, 6, e13563.	1.7	10
48	Can Dietary Nitrates Enhance the Efficiency of Mitochondria?. <i>Cell Metabolism</i> , 2011, 13, 117-118.	16.2	9
49	Gastrointestinal Symptoms in Morbid Obesity. <i>Frontiers in Medicine</i> , 2014, 1, 49.	2.6	9
50	The Panacea of Human Aging: Calorie Restriction Versus Exercise. <i>Exercise and Sport Sciences Reviews</i> , 2019, 47, 169-175.	3.0	9
51	Allostatic stress load and CMV serostatus impact immune response to maximal exercise in collegiate swimmers. <i>Journal of Applied Physiology</i> , 2020, 128, 178-188.	2.5	9
52	Supplemental Watermelon Juice Attenuates Acute Hyperglycemia-Induced Macro-and Microvascular Dysfunction in Healthy Adults. <i>Journal of Nutrition</i> , 2021, 151, 3450-3458.	2.9	9
53	Effects of Type 2 Diabetes and Insulin on Whole-Body, Splanchnic, and Leg Protein Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 4733-4741.	3.6	7
54	Metabolic flexibility is impaired in response to acute exercise in the young offspring of mothers with type 2 diabetes. <i>Physiological Reports</i> , 2019, 7, e14189.	1.7	4

#	ARTICLE	IF	CITATIONS
55	The Association between Poor Diet Quality, Physical Fatigability and Physical Function in the Oldest-Old from the Geisinger Rural Aging Study. <i>Geriatrics (Switzerland)</i> , 2021, 6, 41.	1.7	4
56	Bilateral NIRS measurements of muscle mitochondrial capacity: Feasibility and repeatability. <i>Physiological Reports</i> , 2021, 9, e14826.	1.7	4
57	Impact of acute exercise on peripheral blood mononuclear cells nutrient sensing and mitochondrial oxidative capacity in healthy young adults. <i>Physiological Reports</i> , 2021, 9, e15147.	1.7	4
58	Interindividual variation in maximum aerobic metabolism varies with gill morphology and myocardial bioenergetics in Gulf killifish. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	4
59	NCAA Division I American football players with sickle cell trait have altered hematological responses and hydration status. <i>Scientific Reports</i> , 2021, 11, 1844.	3.3	2
60	An Ethanolic Extract of <i>Artemisia dracunculus</i> L. Enhances the Metabolic Benefits of Exercise in Diet-induced Obese Mice. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 712-723.	0.4	2
61	Cytomegalovirus Infection Impairs the Mobilization of Tissue-Resident Innate Lymphoid Cells into the Peripheral Blood Compartment in Response to Acute Exercise. <i>Viruses</i> , 2021, 13, 1535.	3.3	1
62	Mitochondrial oxidative capacity and coupling: effects of aging and exercise training. <i>FASEB Journal</i> , 2011, 25, .	0.5	0
63	Effect of exercise training modality on skeletal muscle mitochondrial biogenesis in young and older adults. <i>FASEB Journal</i> , 2011, 25, 1107.20.	0.5	0
64	Editorial: Mechanisms Linking Transport and Utilization of Metabolic Fuels to the Impact of Nutrition and Exercise Upon Health. <i>Frontiers in Nutrition</i> , 2021, 8, 803369.	3.7	0
65	Salivary immunity of elite collegiate American football players infected with SARS-CoV-2 normalizes following isolation. <i>Scientific Reports</i> , 2022, 12, .	3.3	0