Kathryn H Myburgh

List of Publications by Citations

78 papers	6,801 citations	30 h-index	82 g-index
82 ext. papers	8,833 ext. citations	3.9 avg, IF	5.31 L-index

#	Paper	IF	Citations
78	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
77	Low bone density is an etiologic factor for stress fractures in athletes. *Annals of Internal Medicine*, **1990**, 113, 754-9	8	311
76	Peak treadmill running velocity during the VO2 max test predicts running performance. *Journal of Sports Sciences*, **1990**, 8, 35-45	3.6	267
75	The inflammatory response to skeletal muscle injury: illuminating complexities. *Sports Medicine*, **2008**, 38, 947-69	10.6	181
74	Proanthocyanidins, anthocyanins and cardiovascular diseases. *Food Research International*, **2014**, 59, 41-52	7	163
73	Skeletal muscle wasting with disuse atrophy is multi-dimensional: the response and interaction of myonuclei, satellite cells and signaling pathways. *Frontiers in Physiology*, **2014**, 5, 99	4.6	129
72	Improved athletic performance in highly trained cyclists after interval training. *Medicine and Science in Sports and Exercise*, **1996**, 28, 1427-34	1.2	113
71	Proanthocyanidin from grape seeds inactivates the PI3-kinase/PKB pathway and induces apoptosis in a colon cancer cell line. *Cancer Letters*, **2007**, 258, 144-53	9.9	107
70	The effects of ankle guards and taping on joint motion before, during, and after a squash match. *American Journal of Sports Medicine*, **1984**, 12, 441-6	6.8	101
69	Running economy of African and Caucasian distance runners. *Medicine and Science in Sports and Exercise*, **2000**, 32, 1130-4	1.2	96
68	Polyphenol supplementation: benefits for exercise performance or oxidative stress?. *Sports Medicine*, **2014**, 44 Suppl 1, S57-70	10.6	94
67	Age-related differences in cross-sectional geometry of the forearm bones in healthy women. *Calcified Tissue International*, **1994**, 54, 113-8	3.9	90
66	Metabolic and performance adaptations to interval training in endurance-trained cyclists. *European Journal of Applied Physiology*, **1997**, 75, 298-304	3.4	85
65	The danger of an inadequate water intake during prolonged exercise. A novel concept re-visited. *European Journal of Applied Physiology and Occupational Physiology*, **1988**, 57, 210-9		75
64	Training techniques to improve fatigue resistance and enhance endurance performance. *Journal of Sports Sciences*, **1997**, 15, 325-33	3.6	72
63	Skeletal muscle limits the exercise tolerance of renal transplant recipients: effects of a graded exercise training program. *American Journal of Kidney Diseases*, **1990**, 16, 57-65	7.4	68
62	African runners exhibit greater fatigue resistance, lower lactate accumulation, and higher oxidative enzyme activity. *Journal of Applied Physiology*, **1999**, 86, 915-23	3.7	67

61	The effect of iron and folate therapy on maximal exercise performance in female marathon runners with iron and folate deficiency. *Clinical Science*, **1987**, 72, 415-22	6.5	65
60	Specific muscle adaptations in type II fibers after high-intensity interval training of well-trained runners. *Scandinavian Journal of Medicine and Science in Sports*, **2011**, 21, 765-72	4.6	53
59	Preferential type II muscle fiber damage from plyometric exercise. *Journal of Athletic Training*, **2012** , 47, 414-20	4	52
58	Carbohydrate ingestion and muscle glycogen depletion during marathon and ultramarathon racing. *European Journal of Applied Physiology and Occupational Physiology*, **1988**, 57, 482-9		39
57	Effects of resistance exercise combined with essential amino acid supplementation and energy deficit on markers of skeletal muscle atrophy and regeneration during bed rest and active recovery. *Muscle and Nerve*, **2010**, 42, 927-35	3.4	37
56	Exercise pattern influences skeletal muscle hybrid fibers of runners and nonrunners. *Medicine and Science in Sports and Exercise*, **2007**, 39, 1977-84	1.2	35
55	Investigation of Circulating Extracellular Vesicle MicroRNA Following Two Consecutive Bouts of Muscle-Damaging Exercise. *Frontiers in Physiology*, **2018**, 9, 1149	4.6	35
54	Current evidence that exercise can increase the number of adult stem cells. *Journal of Muscle Research and Cell Motility*, **2012**, 33, 187-98	3.5	34
53	Accelerated skeletal muscle recovery after in vivo polyphenol administration. *Journal of Nutritional Biochemistry*, **2012**, 23, 1072-9	6.3	34
52	Do skeletal muscle phenotypic characteristics of Xhosa and Caucasian endurance runners differ when matched for training and racing distances?. *Journal of Applied Physiology*, **2007**, 103, 932-40	3.7	34
51	Electrophoretic separation of human skeletal muscle myosin heavy chain isoforms: the importance of reducing agents. *Journal of Physiological Sciences*, **2006**, 56, 355-60	2.3	34
50	What makes an endurance athlete world-class? Not simply a physiological conundrum. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2003**, 136, 171-90	2.6	32
49	Skeletal muscle atrophy: disease-induced mechanisms may mask disuse atrophy. *Journal of Muscle Research and Cell Motility*, **2015**, 36, 405-21	3.5	30
48	Myostatin levels in skeletal muscle of hibernating ground squirrels. *Journal of Experimental Biology*, **2011**, 214, 2522-7	3	29
47	Interleukin-6 Induces Myogenic Differentiation via JAK2-STAT3 Signaling in Mouse C2C12 Myoblast Cell Line and Primary Human Myoblasts. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	26
46	Cytokine and satellite cell responses to muscle damage: interpretation and possible confounding factors in human studies. *Journal of Muscle Research and Cell Motility*, **2012**, 33, 177-85	3.5	26
45	The gender gap in sport performance: equity influences equality. *International Journal of Sports Physiology and Performance*, **2013**, 8, 99-103	3.5	26
44	In vivo assessment of forearm bone mass and ulnar bending stiffness in healthy men. *Journal of Bone and Mineral Research*, **1992**, 7, 1345-50	6.3	26

43	Field and laboratory correlates of performance in competitive cross-country mountain bikers. *Journal of Sports Sciences*, **2007**, 25, 927-35	3.6	25
42	Effect of an ADP analog on isometric force and ATPase activity of active muscle fibers. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C816-25	5.4	25
41	Factors Associated With Shin Soreness in Athletes. *Physician and Sportsmedicine*, **1988**, 16, 129-34	2.4	23
40	Regional specialization of rat quadriceps myosin heavy chain isoforms occurring in distal to proximal parts of middle and deep regions is not mirrored by citrate synthase activity. *Journal of Anatomy*, **2007**, 210, 8-18	2.9	20
39	Antioxidant supplementation enhances neutrophil oxidative burst in trained runners following prolonged exercise. *International Journal of Sport Nutrition and Exercise Metabolism*, **2003**, 13, 369-81	4.4	19
38	Abnormal eating attitude test scores predict menstrual dysfunction in lean females. *International Journal of Eating Disorders*, **1988**, 7, 617-624	6.3	19
37	Simultaneous isolation of enriched myoblasts and fibroblasts for migration analysis within a novel co-culture assay. *BioTechniques*, **2015**, 58, 25-32	2.5	18
36	Satellite cell count, VO(2max) , and p38 MAPK in inactive to moderately active young men. *Scandinavian Journal of Medicine and Science in Sports*, **2012**, 22, e38-44	4.6	18
35	Daily brief restraint stress alters signaling pathways and induces atrophy and apoptosis in rat skeletal muscle. *Stress*, **2010**, 13, 132-41	3	18
34	Delayed wound healing and dysregulation of IL6/STAT3 signalling in MSCs derived from pre-diabetic obese mice. *Molecular and Cellular Endocrinology*, **2016**, 426, 1-10	4.4	18
33	Simple silicone chamber system for in vitro three-dimensional skeletal muscle tissue formation. *Frontiers in Physiology*, **2013**, 4, 349	4.6	17
32	Acute change of titin at mid-sarcomere remains despite 8 wk of plyometric training. *Journal of Applied Physiology*, **2014**, 116, 1512-9	3.7	16
31	Contusion injury with chronic in vivo polyphenol supplementation: leukocyte responses. *Medicine and Science in Sports and Exercise*, **2014**, 46, 225-31	1.2	15
30	Response of compressed skinned skeletal muscle fibers to conditions that simulate fatigue. *Journal of Applied Physiology*, **1997**, 82, 1297-304	3.7	15
29	The effect of polyethylene glycol on the mechanics and ATPase activity of active muscle fibers. *Biophysical Journal*, **2000**, 78, 927-39	2.9	15
28	Decreased resting metabolic rate in ballet dancers with menstrual irregularity. *International Journal of Sport Nutrition*, **1999**, 9, 285-94		15
27	Potential myogenic stem cell populations: sources, plasticity, and application for cardiac repair. *Stem Cells and Development*, **2009**, 18, 813-30	4.4	14
26	Identification of myosin heavy chain isoforms in skeletal muscle of four Southern African wild ruminants. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 148, 399-407	2.6	14

25	Neutrophil and monocyte responses to downhill running: Intracellular contents of MPO, IL-6, IL-10, pstat3, and SOCS3. *Scandinavian Journal of Medicine and Science in Sports*, **2016**, 26, 638-47	4.6	13
24	Characteristics of impala (Aepyceros melampus) skeletal muscles. *Meat Science*, **2005**, 69, 277-82	6.4	13
23	Plasma lactate concentrations for self-selected maximal effort lasting 1 h. *Medicine and Science in Sports and Exercise*, **2001**, 33, 152-6	1.2	13
22	C-Reactive Protein Is Elevated Only in High Creatine Kinase Responders to Muscle Damaging Exercise. *Frontiers in Physiology*, **2019**, 10, 86	4.6	10
21	Variable inflammation and intramuscular STAT3 phosphorylation and myeloperoxidase levels after downhill running. *Scandinavian Journal of Medicine and Science in Sports*, **2014**, 24, e360-71	4.6	10
20	Satellite cell pool expansion is affected by skeletal muscle characteristics. *Muscle and Nerve*, **2013**, 48, 109-16	3.4	10
19	Three weeks of creatine monohydrate supplementation affects dihydrotestosterone to testosterone ratio in college-aged rugby players. *Clinical Journal of Sport Medicine*, **2009**, 19, 399-404	3.2	10
18	A simple breathing circuit to maintain isocapnia during measurements of the hypoxic ventilatory response. *Respiratory Physiology and Neurobiology*, **2002**, 133, 259-70	2.8	10
17	In vitro interleukin-6 release in whole blood cultures in samples taken at rest from triathletes and professional rugby players. *European Journal of Applied Physiology*, **2002**, 87, 233-7	3.4	9
16	Can any metabolites partially alleviate fatigue manifestations at the cross-bridge?. *Medicine and Science in Sports and Exercise*, **2004**, 36, 20-7	1.2	9
15	Are the relationships between early activation of lymphocytes and cortisol or testosterone influenced by intensified cycling training in men?. *Applied Physiology, Nutrition and Metabolism*, **2006**, 31, 226-34	3	8
14	Nausea and high serum osmolality during a simulated ultraendurance adventure race: a case-control study. *International Journal of Sports Physiology and Performance*, **2006**, 1, 176-85	3.5	8
13	Muscle satellite cells increase during hibernation in ground squirrels. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2015**, 189, 55-61	2.3	7
12	Measurement reliability of highly variable physiological responses to experimentally-manipulated gas fractions. *Physiological Measurement*, **2004**, 25, 1189-97	2.9	6
11	Protecting muscle ATP: positive roles for peripheral defense mechanisms-introduction. *Medicine and Science in Sports and Exercise*, **2004**, 36, 16-9	1.2	6
10	The acute hypoxic ventilatory response: testing the adaptive significance in human populations. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2005**, 140, 349-62	2.6	6
9	Oral creatine supplementation decreases plasma markers of adenine nucleotide degradation during a 1-h cycle test. *Acta Physiologica Scandinavica*, **2000**, 170, 217-24		6
8	In vitro induction of quiescence in isolated primary human myoblasts. *Cytotechnology*, **2020**, 72, 189-202	2.2	4

7	Low Nutrient Intake Does Not Cause the Menstrual Cycle Interval Disturbances Seen in Some Ultramarathon Runners. *Clinical Journal of Sport Medicine*, **1991**, 1, 154-161	3.2	4
6	Success, Race and Athletic Performance. *Journal for the Study of Sports and Athletes in Education*, **2010**, 4, 207-229	0.8	2
5	Co-culture of pro-inflammatory macrophages and myofibroblasts: Evaluating morphological phenotypes and screening the effects of signaling pathway inhibitors. *Physiological Reports*, **2021**, 9, e14704	2.6	2
4	Identification of novel Kirrel3 gene splice variants in adult human skeletal muscle. *BMC Physiology*, **2014**, 14, 11	0	1
3	Unresolved intramuscular inflammation, not diminished skeletal muscle regenerative capacity, is at the root of rheumatoid cachexia: insights from a rat CIA model. *Physiological Reports*, **2021**, 9, e15119	2.6	1
2	Methods to Mimic Muscle Cell Biology in Primary Human Myoblasts Using Quiescence as a Guidepost in Regenerative Medicine Research. *OMICS A Journal of Integrative Biology*, **2021**, 25, 176-189	3.8	
1	Therapeutic Benefit in Rheumatoid Cachexia Illustrated Using a Novel Primary Human Triple Cell Coculture Model. *International Journal of Inflammation*, **2022**, 2022, 1-14	6.4	