Kathryn H Myburgh

List of Publications by Year
in descending order

81 papers	10,854 citations	117453 34 h-index	66788 78 g-index
82 all docs	82 docs citations	82 times ranked	16549 citing authors

#	Article	IF	Citations
1	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.	5.5	6,961
2	Low Bone Density Is an Etiologic Factor for Stress Fractures in Athletes. Annals of Internal Medicine, 1990, 113, 754.	2.0	374
3	Peak treadmill running velocity during theVO₂max test predicts running performance. Journal of Sports Sciences, 1990, 8, 35-45.	1.0	311
4	The Inflammatory Response to Skeletal Muscle Injury. Sports Medicine, 2008, 38, 947-969.	3.1	228
5	Proanthocyanidins, anthocyanins and cardiovascular diseases. Food Research International, 2014, 59, 41-52.	2.9	192
6	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.	1.3	153
7	Improved athletic performance in highly trained cyclists after interval training. Medicine and Science in Sports and Exercise, 1996, 28, 1427-1434.	0.2	143
8	Proanthocyanidin from grape seeds inactivates the PI3-kinase/PKB pathway and induces apoptosis in a colon cancer cell line. Cancer Letters, 2007, 258, 144-153.	3.2	122
9	Polyphenol Supplementation: Benefits for Exercise Performance or Oxidative Stress?. Sports Medicine, 2014, 44, 57-70.	3.1	118
10	The effects of ankle guards and taping on joint motion before, during, and after a squash match. American Journal of Sports Medicine, 1984, 12, 441-446.	1.9	113
11	Running economy of African and Caucasian distance runners. Medicine and Science in Sports and Exercise, 2000, 32, 1130-1134.	0.2	113
12	Metabolic and performance adaptations to interval training in endurance-trained cyclists. European Journal of Applied Physiology, 1997, 75, 298-304.	1.2	98
13	Age-related differences in cross-sectional geometry of the forearm bones in healthy women. Calcified Tissue International, 1994, 54, 113-118.	1.5	95
14	Training techniques to improve fatigue resistance and enhance endurance performance. Journal of Sports Sciences, 1997, 15, 325-333.	1.0	95
15	The danger of an inadequate water intake during prolonged exercise. European Journal of Applied Physiology and Occupational Physiology, 1988, 57, 210-219.	1.2	85
16	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.	2.1	79
17	African runners exhibit greater fatigue resistance, lower lactate accumulation, and higher oxidative enzyme activity. Journal of Applied Physiology, 1999, 86, 915-923.	1.2	79
18	The effect of iron and folate therapy on maximal exercise performance in female marathon runners with iron and folate deficiency. Clinical Science, 1987, 72, 415-422.	1.8	74

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19	Preferential Type II Muscle Fiber Damage From Plyometric Exercise. Journal of Athletic Training, 2012, 47, 414-420.	0.9	70
20	Specific muscle adaptations in type II fibers after highâ€intensity interval training of wellâ€trained runners. Scandinavian Journal of Medicine and Science in Sports, 2011, 21, 765-772.	1.3	69
21	Investigation of Circulating Extracellular Vesicle MicroRNA Following Two Consecutive Bouts of Muscle-Damaging Exercise. Frontiers in Physiology, 2018, 9, 1149.	1.3	68
22	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, 5273.	1.8	54
23	Carbohydrate ingestion and muscle glycogen depletion during marathon and ultramarathon racing. European Journal of Applied Physiology and Occupational Physiology, 1988, 57, 482-489.	1.2	45
24	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, 927-935.	1.0	44
25	Skeletal muscle atrophy: disease-induced mechanisms may mask disuse atrophy. Journal of Muscle Research and Cell Motility, 2015, 36, 405-421.	0.9	44
26	Accelerated skeletal muscle recovery after in vivo polyphenol administration. Journal of Nutritional Biochemistry, 2012, 23, 1072-1079.	1.9	42
27	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, 932-940.	1.2	41
28	Electrophoretic Separation of Human Skeletal Muscle Myosin Heavy Chain Isoforms: The Importance of Reducing Agents. Journal of Physiological Sciences, 2006, 56, 355-360.	0.9	40
29	Current evidence that exercise can increase the number of adult stem cells. Journal of Muscle Research and Cell Motility, 2012, 33, 187-198.	0.9	40
30	The Gender Gap in Sport Performance: Equity Influences Equality. International Journal of Sports Physiology and Performance, 2013, 8, 99-103.	1.1	40
31	What makes an endurance athlete world-class? Not simply a physiological conundrum. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 136, 171-190.	0.8	38
32	Exercise Pattern Influences Skeletal Muscle Hybrid Fibers of Runners and Nonrunners. Medicine and Science in Sports and Exercise, 2007, 39, 1977-1984.	0.2	37
33	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, 177-185.	0.9	37
34	Simultaneous isolation of enriched myoblasts and fibroblasts for migration analysis within a novel co-culture assay. BioTechniques, 2015, 58, 25-32.	0.8	35
35	Myostatin levels in skeletal muscle of hibernating ground squirrels. Journal of Experimental Biology, 2011, 214, 2522-2527.	0.8	33
36	Factors Associated With Shin Soreness in Athletes. Physician and Sportsmedicine, 1988, 16, 129-134.	1.0	32

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37	Field and laboratory correlates of performance in competitive cross-country mountain bikers. Journal of Sports Sciences, 2007, 25, 927-935.	1.0	32
38	In vivo assessment of forearm bone mass and ulnar bending stiffness in healthy men. Journal of Bone and Mineral Research, 1992, 7, 1345-1350.	3.1	31
39	C-Reactive Protein Is Elevated Only in High Creatine Kinase Responders to Muscle Damaging Exercise. Frontiers in Physiology, 2019, 10, 86.	1.3	28
40	Effect of an ADP analog on isometric force and ATPase activity of active muscle fibers. American Journal of Physiology - Cell Physiology, 2003, 284, C816-C825.	2.1	27
41	Antioxidant Supplementation Enhances Neutrophil Oxidative Burst in Trained Runners Following Prolonged Exercise. International Journal of Sport Nutrition and Exercise Metabolism, 2003, 13, 369-381.	1.0	25
42	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.	0.9	24
43	Daily brief restraint stress alters signaling pathways and induces atrophy and apoptosis in rat skeletal muscle. Stress, 2010, 13, 132-141.	0.8	23
44	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.	1.6	23
45	Abnormal eating attitude test scores predict menstrual dysfunction in lean females. International Journal of Eating Disorders, 1988, 7, 617-624.	2.1	22
46	Decreased Resting Metabolic Rate in Ballet Dancers with Menstrual Irregularity. International Journal of Sport Nutrition, 1999, 9, 285-294.	1.6	22
47	Simple silicone chamber system for in vitro three-dimensional skeletal muscle tissue formation. Frontiers in Physiology, 2013, 4, 349.	1.3	22
48	Plasma lactate concentrations for self-selected maximal effort lasting 1 h. Medicine and Science in Sports and Exercise, 2001, 33, 152-156.	0.2	20
49	Satellite cell count, <scp>VO</scp>_{2max}, and <scp>p</scp>38 <scp>MAPK</scp> in inactive to moderately active young men. Scandinavian Journal of Medicine and Science in Sports, 2012, 22, e38-44.	1.3	19
50	Acute change of titin at mid-sarcomere remains despite 8 wk of plyometric training. Journal of Applied Physiology, 2014, 116, 1512-1519.	1.2	19
51	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.	0.8	18
52	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.	0.9	18
53	Neutrophil and monocyte responses to downhill running: Intracellular contents of <scp>MPO</scp>, <scp>IL</scp>â€6, <scp>IL</scp>â€10, pstat3, and <scp>SOCS</scp>3. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 638-647.	1.3	18
54	Contusion Injury with Chronic In vivo Polyphenol Supplementation. Medicine and Science in Sports and Exercise, 2014, 46, 225-231.	0.2	17

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55	Response of compressed skinned skeletal muscle fibers to conditions that simulate fatigue. Journal of Applied Physiology, 1997, 82, 1297-1304.	1.2	16
56	The Effect of Polyethylene Glycol on the Mechanics and ATPase Activity of Active Muscle Fibers. Biophysical Journal, 2000, 78, 927-939.	0.2	16
57	Can Any Metabolites Partially Alleviate Fatigue Manifestations at the Cross-Bridge?. Medicine and Science in Sports and Exercise, 2004, 36, 20-27.	0.2	16
58	Potential Myogenic Stem Cell Populations: Sources, Plasticity, and Application for Cardiac Repair. Stem Cells and Development, 2009, 18, 813-830.	1.1	15
59	Variable inflammation and intramuscular <scp>STAT</scp>3 phosphorylation and myeloperoxidase levels after downhill running. Scandinavian Journal of Medicine and Science in Sports, 2014, 24, e360-71.	1.3	14
60	Characteristics of impala (Aepyceros melampus) skeletal muscles. Meat Science, 2005, 69, 277-282.	2.7	13
61	Satellite cell pool expansion is affected by skeletal muscle characteristics. Muscle and Nerve, 2013, 48, 109-116.	1.0	11
62	A simple breathing circuit to maintain isocapnia during measurements of the hypoxic ventilatory response. Respiratory Physiology and Neurobiology, 2002, 133, 259-270.	0.7	10
63	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, 226-234.	0.9	10
64	Muscle satellite cells increase during hibernation in ground squirrels. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 189, 55-61.	0.7	10
65	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, 233-237.	1.2	9
66	The acute hypoxic ventilatory response: Testing the adaptive significance in human populations. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2005, 140, 349-362.	0.8	8
67	Nausea and High Serum Osmolality During a Simulated Ultraendurance Adventure Race: A Case-Control Study. International Journal of Sports Physiology and Performance, 2006, 1, 176-185.	1.1	8
68	Oral creatine supplementation decreases plasma markers of adenine nucleotide degradation during a 1-h cycle test. Acta Physiologica Scandinavica, 2000, 170, 217-224.	2.3	8
69	Measurement reliability of highly variable physiological responses to experimentally-manipulated gas fractions. Physiological Measurement, 2004, 25, 1189-1197.	1.2	6
70	Protecting Muscle ATP: Positive Roles for Peripheral Defense Mechanismsâ€"Introduction. Medicine and Science in Sports and Exercise, 2004, 36, 16-19.	0.2	6
71	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.	0.9	5
72	Food Security, Dietary Intake, and Foodways of Urban Low-Income Older South African Women: An Exploratory Study. International Journal of Environmental Research and Public Health, 2021, 18, 3973.	1.2	5

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73	Identification of novel Kirrel3 gene splice variants in adult human skeletal muscle. BMC Physiology, 2014, 14, 11.	3.6	4
74	In vitro induction of quiescence in isolated primary human myoblasts. Cytotechnology, 2020, 72, 189-202.	0.7	4
75	Coâ€culture of proâ€inflammatory macrophages and myofibroblasts: Evaluating morphological phenotypes and screening the effects of signaling pathway inhibitors. Physiological Reports, 2021, 9, e14704.	0.7	4
76	Success, Race and Athletic Performance. Journal for the Study of Sports and Athletes in Education, 2010, 4, 207-229.	0.3	3
77	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.	0.7	1
78	Total mRNA and primary human myoblastsâ€™ inÂvitro cell cycle progression distinguishes between clones. Biochimie, 2022, 196, 161-170.	1.3	1
79	Therapeutic Benefit in Rheumatoid Cachexia Illustrated Using a Novel Primary Human Triple Cell Coculture Model. International Journal of Inflammation, 2022, 2022, 1-14.	0.9	1
80	Origin and diversity of human physiological adaptability. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 136, 1-3.	0.8	0
81	Methods to MimicIn VivoMuscle 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.	1.0	0