

# Michael J Mckenna

## List of Publications by Year in descending order

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106  
papers

4,729  
citations

66336

42  
h-index

110368

64  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4541  
citing authors

#	ARTICLE	IF	CITATIONS
1	N-acetylcysteine attenuates the decline in muscle Na <sup>+</sup> ,K <sup>+</sup> -pump activity and delays fatigue during prolonged exercise in humans. <i>Journal of Physiology</i> , 2006, 576, 279-288.	2.9	216
2	Muscle K <sup>+</sup> , Na <sup>+</sup> , and Cl <sup>-</sup> disturbances and Na <sup>+</sup> -K <sup>+</sup> pump inactivation: implications for fatigue. <i>Journal of Applied Physiology</i> , 2008, 104, 288-295.	2.5	206
3	N-acetylcysteine enhances muscle cysteine and glutathione availability and attenuates fatigue during prolonged exercise in endurance-trained individuals. <i>Journal of Applied Physiology</i> , 2004, 97, 1477-1485.	2.5	193
4	Design and Interpretation of Anthropometric and Fitness Testing of Basketball Players. <i>Sports Medicine</i> , 2008, 38, 565-578.	6.5	159
5	Skeletal muscle metabolic and ionic adaptations during intense exercise following sprint training in humans. <i>Journal of Applied Physiology</i> , 2000, 89, 1793-1803.	2.5	147
6	Muscle metabolites and performance during high-intensity, intermittent exercise. <i>Journal of Applied Physiology</i> , 1998, 84, 1687-1691.	2.5	125
7	Effects of carnosine on contractile apparatus Ca <sup>2+</sup> sensitivity and sarcoplasmic reticulum Ca <sup>2+</sup> release in human skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2012, 112, 728-736.	2.5	102
8	Creatine supplementation increases muscle total creatine but not maximal intermittent exercise performance. <i>Journal of Applied Physiology</i> , 1999, 87, 2244-2252.	2.5	94
9	Impaired calcium pump function does not slow relaxation in human skeletal muscle after prolonged exercise. <i>Journal of Applied Physiology</i> , 1997, 83, 511-521.	2.5	92
10	Glutathionylation of troponin I (fast) increases contractile apparatus Ca <sup>2+</sup> sensitivity in fast-twitch muscle fibres of rats and humans. <i>Journal of Physiology</i> , 2012, 590, 1443-1463.	2.9	90
11	Increased inflammatory cytokine expression in the vastus lateralis of patients with knee osteoarthritis. <i>Arthritis and Rheumatism</i> , 2011, 63, 1343-1348.	6.7	85
12	Training Leading to Repetition Failure Enhances Bench Press Strength Gains in Elite Junior Athletes. <i>Journal of Strength and Conditioning Research</i> , 2005, 19, 382.	2.1	85
13	Effects of intravenous N-acetylcysteine infusion on time to fatigue and potassium regulation during prolonged cycling exercise. <i>Journal of Applied Physiology</i> , 2004, 96, 211-217.	2.5	83
14	Sprint training enhances ionic regulation during intense exercise in men. <i>Journal of Physiology</i> , 1997, 501, 687-702.	2.9	82
15	Prolonged exercise to fatigue in humans impairs skeletal muscle Na <sup>+</sup> -K <sup>+</sup> -ATPase activity, sarcoplasmic reticulum Ca <sup>2+</sup> release, and Ca <sup>2+</sup> uptake. <i>Journal of Applied Physiology</i> , 2004, 97, 1414-1423.	2.5	82
16	Infusion with the antioxidant N-acetylcysteine attenuates early adaptive responses to exercise in human skeletal muscle. <i>Acta Physiologica</i> , 2012, 204, 382-392.	3.8	82
17	Effects of fatigue and sprint training on electromechanical delay of knee extensor muscles. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996, 72-72, 410-416.	1.2	81
18	Contractile properties and sarcoplasmic reticulum calcium content in type I and type II skeletal muscle fibres in active aged humans. <i>Journal of Physiology</i> , 2015, 593, 2499-2514.	2.9	79

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19	Effects of fatigue and training on sarcoplasmic reticulum Ca <sup>2+</sup> regulation in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2002, 92, 912-922.	2.5	74
20	Exercise Performance Falls over Time in Patients with Chronic Kidney Disease Despite Maintenance of Hemoglobin Concentration. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2006, 1, 488-495.	4.5	72
21	Alkalosis increases muscle K <sup>+</sup> release, but lowers plasma [K <sup>+</sup> ] and delays fatigue during dynamic forearm exercise. <i>Journal of Physiology</i> , 2006, 570, 185-205.	2.9	70
22	Fatigue depresses maximal in vitro skeletal muscle Na <sup>+</sup> -K <sup>+</sup> -ATPase activity in untrained and trained individuals. <i>Journal of Applied Physiology</i> , 2002, 93, 1650-1659.	2.5	69
23	Living high-training low increases hypoxic ventilatory response of well-trained endurance athletes. <i>Journal of Applied Physiology</i> , 2002, 93, 1498-1505.	2.5	69
24	Performance and physiological responses to repeated-sprint exercise: a novel multiple-set approach. <i>European Journal of Applied Physiology</i> , 2011, 111, 669-678.	2.5	67
25	Validation of an Optical Encoder During Free Weight Resistance Movements and Analysis of Bench Press Sticking Point Power During Fatigue. <i>Journal of Strength and Conditioning Research</i> , 2007, 21, 510.	2.1	66
26	Calpain-3 is autolyzed and hence activated in human skeletal muscle 24 h following a single bout of eccentric exercise. <i>Journal of Applied Physiology</i> , 2007, 103, 926-931.	2.5	65
27	Measurement of Na <sup>+</sup> ,K <sup>+</sup> -ATPase Activity in Human Skeletal Muscle. <i>Analytical Biochemistry</i> , 1998, 258, 63-67.	2.4	62
28	Modelling age and secular differences in fitness between basketball players. <i>Journal of Sports Sciences</i> , 2007, 25, 869-878.	2.0	62
29	Exercise Limitation Following Transplantation. , 2012, 2, 1937-1979.		60
30	Preservation of skeletal muscle mitochondrial content in older adults: relationship between mitochondria, fibre type and high intensity exercise training. <i>Journal of Physiology</i> , 2017, 595, 3345-3359.	2.9	60
31	Greater chance of high core temperatures with modified pacing strategy during team sport in the heat. <i>Journal of Science and Medicine in Sport</i> , 2014, 17, 113-118.	1.3	59
32	Intense exercise up-regulates Na <sup>+</sup> ,K <sup>+</sup> -ATPase isoform mRNA, but not protein expression in human skeletal muscle. <i>Journal of Physiology</i> , 2004, 556, 507-519.	2.9	58
33	High-Intensity Training Improves Plasma Glucose and Acid-Base Regulation During Intermittent Maximal Exercise in Type 1 Diabetes. <i>Diabetes Care</i> , 2007, 30, 1269-1271.	8.6	58
34	Effects of live high, train low hypoxic exposure on lactate metabolism in trained humans. <i>Journal of Applied Physiology</i> , 2004, 96, 517-525.	2.5	54
35	Effect of sodium bicarbonate on muscle metabolism during intense endurance cycling. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 614-621.	0.4	53
36	Endogenous and maximal sarcoplasmic reticulum calcium content and calsequestrin expression in type I and type II human skeletal muscle fibres. <i>Journal of Physiology</i> , 2013, 591, 6053-6068.	2.9	53

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37	Sprint Training Increases Muscle Oxidative Metabolism During High-Intensity Exercise in Patients With Type 1 Diabetes. <i>Diabetes Care</i> , 2008, 31, 2097-2102.	8.6	51
38	The Roles of Ionic Processes in Muscular Fatigue During Intense Exercise. <i>Sports Medicine</i> , 1992, 13, 134-145.	6.5	48
39	Enhanced pulmonary and active skeletal muscle gas exchange during intense exercise after sprint training in men. <i>Journal of Physiology</i> , 1997, 501, 703-716.	2.9	48
40	Effects of Electrical Stimulation and Insulin on Na <sup>+</sup> -K <sup>+</sup> -ATPase ([ <sup>3</sup> H]Ouabain Binding) in Rat Skeletal Muscle. <i>Journal of Physiology</i> , 2003, 547, 567-580.	2.9	48
41	Intensified exercise training does not alter AMPK signaling in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E737-E743.	3.5	48
42	Muscle Na <sup>+</sup> -K <sup>+</sup> -ATPase activity and isoform adaptations to intense interval exercise and training in well-trained athletes. <i>Journal of Applied Physiology</i> , 2007, 103, 39-47.	2.5	48
43	Sarcoplasmic reticulum Ca <sup>2+</sup> uptake and leak properties, and SERCA isoform expression, in type I and type II fibres of human skeletal muscle. <i>Journal of Physiology</i> , 2014, 592, 1381-1395.	2.9	48
44	Chronic intermittent hypoxia and incremental cycling exercise independently depress muscle in vitro maximal Na <sup>+</sup> -K <sup>+</sup> -ATPase activity in well-trained athletes. <i>Journal of Applied Physiology</i> , 2005, 98, 186-192.	2.5	42
45	Resolving fatigue mechanisms determining exercise performance: integrative physiology at its finest!. <i>Journal of Applied Physiology</i> , 2008, 104, 286-287.	2.5	41
46	Altering the rest interval during high-intensity interval training does not affect muscle or performance adaptations. <i>Experimental Physiology</i> , 2013, 98, 481-490.	2.0	40
47	Depressed Na <sup>+</sup> -K <sup>+</sup> -ATPase activity in skeletal muscle at fatigue is correlated with increased Na <sup>+</sup> -K <sup>+</sup> -ATPase mRNA expression following intense exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R266-R274.	1.8	39
48	Effects of type 1 diabetes, sprint training and sex on skeletal muscle sarcoplasmic reticulum Ca <sup>2+</sup> uptake and Ca <sup>2+</sup> -ATPase activity. <i>Journal of Physiology</i> , 2014, 592, 523-535.	2.9	38
49	Ca <sup>2+</sup> leakage out of the sarcoplasmic reticulum is increased in type I skeletal muscle fibres in aged humans. <i>Journal of Physiology</i> , 2016, 594, 469-481.	2.9	38
50	International Society of Sports Nutrition position stand: sodium bicarbonate and exercise performance. <i>Journal of the International Society of Sports Nutrition</i> , 2021, 18, 61.	3.9	38
51	Repeated Sprints Alter Signaling Related to Mitochondrial Biogenesis in Humans. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 827-834.	0.4	37
52	Effects of Water Immersion on Posttraining Recovery in Australian Footballers. <i>International Journal of Sports Physiology and Performance</i> , 2012, 7, 357-366.	2.3	35
53	Pharmacokinetics of intravenous N-acetylcysteine in men at rest and during exercise. <i>European Journal of Clinical Pharmacology</i> , 2004, 60, 717-723.	1.9	34
54	Sleep in athletes undertaking protocols of exposure to nocturnal simulated altitude at 2650 m. <i>Journal of Science and Medicine in Sport</i> , 2005, 8, 222-232.	1.3	34

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55	Effectiveness of Water Immersion on Postmatch Recovery in Elite Professional Footballers. <i>International Journal of Sports Physiology and Performance</i> , 2013, 8, 243-253.	2.3	34
56	Effects of sprint training on extrarenal potassium regulation with intense exercise in Type 1 diabetes. <i>Journal of Applied Physiology</i> , 2006, 100, 26-34.	2.5	31
57	Dexamethasone up-regulates skeletal muscle maximal Na <sup>+</sup> ,K <sup>+</sup> pump activity by muscle group specific mechanisms in humans. <i>Journal of Physiology</i> , 2005, 567, 583-589.	2.9	29
58	Dissociation between short-term unloading and resistance training effects on skeletal muscle Na <sup>+</sup> ,K <sup>+</sup> -ATPase, muscle function, and fatigue in humans. <i>Journal of Applied Physiology</i> , 2016, 121, 1074-1086.	2.5	28
59	Impaired K <sup>+</sup> regulation contributes to exercise limitation in end-stage renal failure. <i>Kidney International</i> , 2003, 63, 283-290.	5.2	27
60	Prolonged submaximal exercise induces isoform-specific Na <sup>+</sup> -K <sup>+</sup> -ATPase mRNA and protein responses in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R414-R424.	1.8	27
61	Impaired muscle Ca <sup>2+</sup> and K <sup>+</sup> regulation contribute to poor exercise performance post-lung transplantation. <i>Journal of Applied Physiology</i> , 2003, 95, 1606-1616.	2.5	25
62	Hypoxic ventilatory response is correlated with increased submaximal exercise ventilation after live high, train low. <i>European Journal of Applied Physiology</i> , 2005, 94, 207-215.	2.5	24
63	Ionic mechanisms of excitation-induced regulation of Na <sup>+</sup> -K <sup>+</sup> -ATPase mRNA expression in isolated rat EDL muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1397-R1406.	1.8	24
64	Activation of skeletal muscle calpain-3 by eccentric exercise in humans does not result in its translocation to the nucleus or cytosol. <i>Journal of Applied Physiology</i> , 2011, 111, 1448-1458.	2.5	24
65	Increased Number of Forced Repetitions Does Not Enhance Strength Development With Resistance Training. <i>Journal of Strength and Conditioning Research</i> , 2007, 21, 841.	2.1	24
66	Single-fiber expression and fiber-specific adaptability to short-term intense exercise training of Na <sup>+</sup> -K <sup>+</sup> -ATPase $\alpha_1$ - and $\alpha_2$ -isoforms in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2015, 118, 699-706.	2.5	22
67	Cell specific differences in the protein abundances of GAPDH and Na <sup>+</sup> ,K <sup>+</sup> -ATPase in skeletal muscle from aged individuals. <i>Experimental Gerontology</i> , 2016, 75, 8-15.	2.8	22
68	Intense interval training in healthy older adults increases skeletal muscle [ <sup>3</sup> H]ouabain-binding site content and elevates Na <sup>+</sup> ,K <sup>+</sup> -ATPase $\alpha_1$ and $\alpha_2$ isoform abundance in Type II fibers. <i>Physiological Reports</i> , 2017, 5, e13219.	1.7	22
69	Interspersed normoxia during live high, train low interventions reverses an early reduction in muscle Na <sup>+</sup> , K <sup>+</sup> -ATPase activity in well-trained athletes. <i>European Journal of Applied Physiology</i> , 2006, 98, 299-309.	2.5	20
70	Effects of endurance training status and sex differences on Na <sup>+</sup> ,K <sup>+</sup> -pump mRNA expression, content and maximal activity in human skeletal muscle. <i>Acta Physiologica</i> , 2007, 189, 259-269.	3.8	20
71	The effects of osteoarthritis and age on skeletal muscle strength, Na <sup>+</sup> -K <sup>+</sup> -ATPase content, gene and isoform expression. <i>Journal of Applied Physiology</i> , 2013, 115, 1443-1449.	2.5	20
72	Plasma K <sup>+</sup> dynamics and implications during and following intense rowing exercise. <i>Journal of Applied Physiology</i> , 2014, 117, 60-68.	2.5	20

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73	Antioxidant treatment with N-acetylcysteine regulates mammalian skeletal muscle Na <sup>+</sup> -K <sup>+</sup> -ATPase gene expression during repeated contractions. <i>Experimental Physiology</i> , 2008, 93, 1239-1248.	2.0	19
74	The effects of knee injury on skeletal muscle function, Na <sup>+</sup> , K <sup>+</sup> -ATPase content, and isoform abundance. <i>Physiological Reports</i> , 2015, 3, e12294.	1.7	19
75	Impaired exercise performance and muscle Na <sup>+</sup> ,K <sup>+</sup> -pump activity in renal transplantation and haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 2036-2043.	0.7	18
76	Cold-water immersion after training sessions: effects on fiber type-specific adaptations in muscle K <sup>+</sup> transport proteins to sprint-interval training in men. <i>Journal of Applied Physiology</i> , 2018, 125, 429-444.	2.5	18
77	Inflammatory markers in skeletal muscle of older adults. <i>European Journal of Applied Physiology</i> , 2013, 113, 509-517.	2.5	17
78	Sleep disturbance at simulated altitude indicated by stratified respiratory disturbance index but not hypoxic ventilatory response. <i>European Journal of Applied Physiology</i> , 2005, 94, 569-575.	2.5	16
79	Association between skeletal muscle inflammatory markers and walking pattern in people with knee osteoarthritis. <i>Arthritis Care and Research</i> , 2011, 63, 1715-1721.	3.4	15
80	Effects of Age on Na <sup>+</sup> ,K <sup>+</sup> -ATPase Expression in Human and Rodent Skeletal Muscle. <i>Frontiers in Physiology</i> , 2016, 7, 316.	2.8	15
81	Protection against severe hypokalemia but impaired cardiac repolarization after intense rowing exercise in healthy humans receiving salbutamol. <i>Journal of Applied Physiology</i> , 2018, 125, 624-633.	2.5	15
82	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 151-157.	3.1	14
83	Characterizing changes in fitness of basketball players within and between seasons. <i>International Journal of Performance Analysis in Sport</i> , 2005, 5, 107-125.	1.1	14
84	Effect of 23-day muscle disuse on sarcoplasmic reticulum Ca <sup>2+</sup> properties and contractility in human type I and type II skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2016, 121, 483-492.	2.5	14
85	Inactivity and exercise training differentially regulate abundance of Na <sup>+</sup> -K <sup>+</sup> -ATPase in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2019, 127, 905-920.	2.5	14
86	Effects of high-intensity intermittent exercise on the contractile properties of human type I and type II skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2020, 128, 1207-1216.	2.5	14
87	Effects of endurance training on extrarenal potassium regulation and exercise performance in patients on haemodialysis. <i>Nephrology Dialysis Transplantation</i> , 2009, 24, 2882-2888.	0.7	13
88	Unchanged [ <sup>3</sup> H]ouabain binding site content but reduced Na <sup>+</sup> -K <sup>+</sup> -pump protein abundance in skeletal muscle in older adults. <i>Journal of Applied Physiology</i> , 2012, 113, 1505-1511.	2.5	12
89	Salbutamol effects on systemic potassium dynamics during and following intense continuous and intermittent exercise. <i>European Journal of Applied Physiology</i> , 2016, 116, 2389-2399.	2.5	10
90	Evaluation of an automated scoring system in a modified form of competitive boxing. <i>Procedia Engineering</i> , 2011, 13, 445-450.	1.2	8

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91	Kinematic effects of a short-term fatigue protocol on punt-kicking performance. <i>Journal of Sports Sciences</i> , 2015, 33, 1596-1605.	2.0	7
92	Plasma potassium concentration and cardiac repolarisation markers, Tpeak-Tend and Tpeak-Tend/QT, during and after exercise in healthy participants and in end-stage renal disease. <i>European Journal of Applied Physiology</i> , 2022, 122, 691-702.	2.5	6
93	Futsal and Continuous Exercise Induce Similar Changes in Specific Skeletal Muscle Signalling Proteins. <i>International Journal of Sports Medicine</i> , 2014, 35, 863-870.	1.7	5
94	Human skeletal muscle creatine transporter mRNA and protein expression in healthy, young males and females. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 151-7.	3.1	5
95	Dissociation between force and maximal Na <sup>+</sup> , K <sup>+</sup> -ATPase activity in rat fast-twitch skeletal muscle with fatiguing in vitro stimulation. <i>European Journal of Applied Physiology</i> , 2009, 105, 575-583.	2.5	4
96	Resistance training upregulates skeletal muscle Na <sup>+</sup> , K <sup>+</sup> -ATPase content, with elevations in both I <sup>±1</sup> and I <sup>±2</sup> , but not I <sup>2</sup> isoforms. <i>European Journal of Applied Physiology</i> , 2020, 120, 1777-1785.	2.5	4
97	Unaccustomed Eccentric Contractions Impair Plasma K <sup>+</sup> Regulation in the Absence of Changes in Muscle Na <sup>+</sup> ,K <sup>+</sup> -ATPase Content. <i>PLoS ONE</i> , 2014, 9, e101039.	2.5	3
98	Oral digoxin effects on exercise performance, K <sup>+</sup> regulation and skeletal muscle Na <sup>+</sup> ,K <sup>+</sup> -ATPase in healthy humans. <i>Journal of Physiology</i> , 2022, 600, 3749-3774.	2.9	3
99	VALIDATION OF AN OPTICAL ENCODER DURING FREE WEIGHT RESISTANCE MOVEMENTS AND ANALYSIS OF BENCH PRESS STICKING POINT POWER DURING FATIGUE. <i>Journal of Strength and Conditioning Research</i> , 2007, 21, 510-517.	2.1	2
100	Commentaries on Viewpoint: Maximal Na <sup>+</sup> -K <sup>+</sup> -ATPase activity is upregulated in association with muscle activity. <i>Journal of Applied Physiology</i> , 2012, 112, 2124-2126.	2.5	2
101	Effects of testosterone suppression, hindlimb immobilization, and recovery on [3H]ouabain binding site content and Na <sup>+</sup> , K <sup>+</sup> -ATPase isoforms in rat soleus muscle. <i>Journal of Applied Physiology</i> , 2020, 128, 501-513.	2.5	2
102	A single oral glucose load decreases arterial plasma [K <sup>+</sup> ] during exercise and recovery. <i>Physiological Reports</i> , 2021, 9, e14889.	1.7	2
103	Effects of Mild Electro-Stimulation Treatment on Healthy Humans Following Exercise Induced Muscle Damage. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S76.	0.4	2
104	INCREASED NUMBER OF FORCED REPETITIONS DOES NOT ENHANCE STRENGTH DEVELOPMENT WITH RESISTANCE TRAINING. <i>Journal of Strength and Conditioning Research</i> , 2007, 21, 841-847.	2.1	1
105	Human skeletal muscle creatine transporter mRNA and protein expression in healthy, young males and females. , 2003, , 151-157.		0
106	PL - 039 Heat Shock Proteins in human single skeletal muscle fibres resist age associated alterations and differentially respond to high-intensity exercise training. <i>Exercise Biochemistry Review</i> , 2018, 1, .	0.0	0