

Michael D Nelson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,619
citations

21
h-index

36
g-index

108
ext. papers

2,079
ext. citations

4.2
avg, IF

4.86
L-index

#	Paper	IF	Citations
101	Late-life rapamycin treatment reverses age-related heart dysfunction. <i>Aging Cell</i> , 2013 , 12, 851-62	9.9	195
100	Pancreatic steatosis and its relationship to β cell dysfunction in humans: racial and ethnic variations. <i>Diabetes Care</i> , 2012 , 35, 2377-83	14.6	85
99	The effects of oestrogens and their receptors on cardiometabolic health. <i>Nature Reviews Endocrinology</i> , 2017 , 13, 352-364	15.2	80
98	PDE5 inhibition alleviates functional muscle ischemia in boys with Duchenne muscular dystrophy. <i>Neurology</i> , 2014 , 82, 2085-91	6.5	79
97	Reductions in cerebral blood flow during passive heat stress in humans: partitioning the mechanisms. <i>Journal of Physiology</i> , 2011 , 589, 4053-64	3.9	65
96	Myocardial steatosis as a possible mechanistic link between diastolic dysfunction and coronary microvascular dysfunction in women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H14-9	5.2	53
95	Regional Adipose Distribution and its Relationship to Exercise Intolerance in Older Obese Patients Who Have Heart Failure With Preserved Ejection Fraction. <i>JACC: Heart Failure</i> , 2018 , 6, 640-649	7.9	53
94	Cardiac steatosis and left ventricular hypertrophy in patients with generalized lipodystrophy as determined by magnetic resonance spectroscopy and imaging. <i>American Journal of Cardiology</i> , 2013 , 112, 1019-24	3	51
93	Diastolic dysfunction in women with signs and symptoms of ischemia in the absence of obstructive coronary artery disease: a hypothesis-generating study. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 510-519	3.9	47
92	Reactive hyperemia: a review of methods, mechanisms, and considerations. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R605-R618	3.2	38
91	Increased left ventricular twist, untwisting rates, and suction maintain global diastolic function during passive heat stress in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H930-7	5.2	38
90	Age-related microvascular dysfunction: novel insight from near-infrared spectroscopy. <i>Experimental Physiology</i> , 2018 , 103, 190-200	2.4	32
89	Meta-analysis of Exercise Training on Left Ventricular Ejection Fraction in Heart Failure with Reduced Ejection Fraction: A 10-year Update. <i>Progress in Cardiovascular Diseases</i> , 2019 , 62, 163-171	8.5	31
88	Relationship between cerebral blood flow and blood pressure in long-term heart transplant recipients. <i>Hypertension</i> , 2014 , 64, 1314-20	8.5	30
87	Measurement of pancreatic volume by abdominal MRI: a validation study. <i>PLoS ONE</i> , 2013 , 8, e55991	3.7	28
86	Mechanisms of the Improvement in Peak VO With Exercise Training in Heart Failure With Reduced or Preserved Ejection Fraction. <i>Heart Lung and Circulation</i> , 2018 , 27, 9-21	1.8	28
85	Left ventricular systolic and diastolic function during tilt-table positioning and passive heat stress in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H599-608	5.2	27

84	Coronary microvascular dysfunction and heart failure with preserved ejection fraction as female-pattern cardiovascular disease: the chicken or the egg?. <i>European Heart Journal</i> , 2018 , 39, 850-852	9.5	25
83	Heart failure hospitalization in women with signs and symptoms of ischemia: A report from the women's ischemia syndrome evaluation study. <i>International Journal of Cardiology</i> , 2016 , 223, 936-939	3.2	24
82	Late sodium channel blockade improves angina and myocardial perfusion in patients with severe coronary microvascular dysfunction: Women's Ischemia Syndrome Evaluation-Coronary Vascular Dysfunction ancillary study. <i>International Journal of Cardiology</i> , 2019 , 276, 8-13	3.2	24
81	Cardiac steatosis and left ventricular dysfunction in HIV-infected patients treated with highly active antiretroviral therapy. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 1175-7	8.4	23
80	Immune Correlates of Diffuse Myocardial Fibrosis and Diastolic Dysfunction Among Aging Women With Human Immunodeficiency Virus. <i>Journal of Infectious Diseases</i> , 2020 , 221, 1315-1320	7	20
79	Increased pericardial fat accumulation is associated with increased intramyocardial lipid content and duration of highly active antiretroviral therapy exposure in patients infected with human immunodeficiency virus: a 3T cardiovascular magnetic resonance feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 91	6.9	20
78	Cocaine-induced vasoconstriction in the human coronary microcirculation: new evidence from myocardial contrast echocardiography. <i>Circulation</i> , 2013 , 128, 598-604	16.7	20
77	Impact of Exercise Training on Peak Oxygen Uptake and its Determinants in Heart Failure with Preserved Ejection Fraction. <i>Cardiac Failure Review</i> , 2016 , 2, 95-101	4.2	20
76	Sodium nitrate alleviates functional muscle ischaemia in patients with Becker muscular dystrophy. <i>Journal of Physiology</i> , 2015 , 593, 5183-200	3.9	19
75	Effects of age and counseling on the cardiorespiratory response to graded exercise. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 255-64	1.2	18
74	Myocardial tissue deformation is reduced in subjects with coronary microvascular dysfunction but not rescued by treatment with ranolazine. <i>Clinical Cardiology</i> , 2017 , 40, 300-306	3.3	17
73	Pathophysiology of exercise intolerance in breast cancer survivors with preserved left ventricular ejection fraction. <i>Clinical Science</i> , 2016 , 130, 2239-2244	6.5	17
72	Athlete's Heart: Is the Morganroth Hypothesis Obsolete?. <i>Heart Lung and Circulation</i> , 2018 , 27, 1037-1041	1.8	17
71	Performance Limitations in Heart Transplant Recipients. <i>Exercise and Sport Sciences Reviews</i> , 2018 , 46, 144-151	6.7	16
70	Sex Differences in Cardiovascular Aging and Heart Failure. <i>Current Heart Failure Reports</i> , 2020 , 17, 409-423	3.3	16
69	Studies into the determinants of skeletal muscle oxygen consumption: novel insight from near-infrared diffuse correlation spectroscopy. <i>Journal of Physiology</i> , 2019 , 597, 2887-2901	3.9	14
68	Effects of self-contained breathing apparatus on ventricular function during strenuous exercise. <i>Journal of Applied Physiology</i> , 2009 , 106, 395-402	3.7	14
67	Cardiac magnetic resonance imaging for myocardial perfusion and diastolic function-reference control values for women. <i>Cardiovascular Diagnosis and Therapy</i> , 2016 , 6, 78-86	2.6	14

66	Acute Effect of Hookah Smoking on the Human Coronary Microcirculation. <i>American Journal of Cardiology</i> , 2016 , 117, 1747-54	3	14
65	Mental stress peripheral vascular reactivity is elevated in women with coronary vascular dysfunction: Results from the NHLBI-sponsored Cardiac Autonomic Nervous System (CANS) study. <i>International Journal of Cardiology</i> , 2018 , 251, 8-13	3.2	14
64	Concurrent measurement of skeletal muscle blood flow during exercise with diffuse correlation spectroscopy and Doppler ultrasound. <i>Biomedical Optics Express</i> , 2018 , 9, 131-141	3.5	13
63	Intramyocardial Triglycerides Among Women With vs Without HIV: Hormonal Correlates and Functional Consequences. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 6090-6100	5.6	13
62	Resting and exercise cerebral blood flow in long-term heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2012 , 31, 906-8	5.8	13
61	Rapid development of cardiac dysfunction in a canine model of insulin resistance and moderate obesity. <i>Diabetologia</i> , 2016 , 59, 197-207	10.3	12
60	Exercise cardiac magnetic resonance imaging: a feasibility study and meta-analysis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 315, R638-R645	3.2	12
59	Interindividual differences in the ischemic stimulus and other technical considerations when assessing reactive hyperemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R530-R538	3.2	12
58	Heart failure with preserved ejection fraction: Similarities and differences between women and men. <i>International Journal of Cardiology</i> , 2020 , 304, 101-108	3.2	12
57	Pathophysiology of Exercise Intolerance and Its Treatment With Exercise-Based Cardiac Rehabilitation in Heart Failure With Preserved Ejection Fraction. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2020 , 40, 9-16	3.6	11
56	Design, methodology and baseline characteristics of the Women's Ischemia Syndrome Evaluation-Coronary Vascular Dysfunction (WISE-CVD). <i>American Heart Journal</i> , 2020 , 220, 224-236	4.9	10
55	Impaired Left Ventricular Reserve in Childhood Cancer Survivors Treated With Anthracycline Therapy. <i>Pediatric Blood and Cancer</i> , 2016 , 63, 1086-90	3	10
54	Inverse association of MRI-derived native myocardial T1 and perfusion reserve index in women with evidence of ischemia and no obstructive CAD: A pilot study. <i>International Journal of Cardiology</i> , 2018 , 270, 48-53	3.2	9
53	Aerobic fitness does not influence the biventricular response to whole body passive heat stress. <i>Journal of Applied Physiology</i> , 2010 , 109, 1545-51	3.7	9
52	Transwomen and the Metabolic Syndrome: Is Orchiectomy Protective?. <i>Transgender Health</i> , 2016 , 1, 165-171	4	8
51	Determinants of skeletal muscle oxygen consumption assessed by near-infrared diffuse correlation spectroscopy during incremental handgrip exercise. <i>Journal of Applied Physiology</i> , 2019 , 127, 698-706	3.7	8
50	Isometric handgrip echocardiography: A noninvasive stress test to assess left ventricular diastolic function. <i>Clinical Cardiology</i> , 2017 , 40, 1247-1255	3.3	8
49	Why do we care about coronary microvascular dysfunction and heart failure with preserved ejection fraction: addressing knowledge gaps for evidence-based guidelines. <i>European Heart Journal</i> , 2018 , 39, 3451-3453	9.5	8

48	Myocardial Steatosis Among Antiretroviral Therapy-Treated People With Human Immunodeficiency Virus Participating in the REPRIEVE Trial. <i>Journal of Infectious Diseases</i> , 2020 , 222, S63-S69	7	7
47	Relationship of Cardiorespiratory Fitness and Adiposity With Left Ventricular Strain in Middle-Age Adults (from the Dallas Heart Study). <i>American Journal of Cardiology</i> , 2017 , 120, 1405-1409	3	7
46	Typical angina is associated with greater coronary endothelial dysfunction but not abnormal vasodilatory reserve. <i>Clinical Cardiology</i> , 2017 , 40, 886-891	3.3	6
45	Left ventricular diastolic dysfunction in women with nonobstructive ischemic heart disease: insights from magnetic resonance imaging and spectroscopy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 313, R322-R329	3.2	6
44	Left ventricular distensibility does not explain impaired exercise capacity in pediatric heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2013 , 32, 63-9	5.8	6
43	Near-infrared diffuse correlation spectroscopy tracks changes in oxygen delivery and utilization during exercise with and without isolated arterial compression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R81-R88	3.2	6
42	Cardiac Structure and Function in Well-Healed Burn Survivors. <i>Journal of Burn Care and Research</i> , 2019 , 40, 235-241	0.8	5
41	Left atrial stiffness in women with ischemia and no obstructive coronary artery disease: Novel insight from left atrial feature tracking. <i>Clinical Cardiology</i> , 2020 , 43, 986-992	3.3	5
40	Ambulatory and silent myocardial ischemia in women with coronary microvascular dysfunction: Results from the Cardiac Autonomic Nervous System study (CANS). <i>International Journal of Cardiology</i> , 2020 , 316, 1-6	3.2	5
39	Resting coronary velocity and myocardial performance in women with impaired coronary flow reserve: Results from the Women's Ischemia Syndrome Evaluation-Coronary Vascular Dysfunction (WISE-CVD) study. <i>International Journal of Cardiology</i> , 2020 , 309, 19-22	3.2	5
38	Near-infrared spectroscopy detects age-related differences in skeletal muscle oxidative function: promising implications for geroscience. <i>Physiological Reports</i> , 2018 , 6, e13588	2.6	5
37	Fast-food meal reduces peripheral artery endothelial function but not cerebral vascular hypercapnic reactivity in healthy young men. <i>Physiological Reports</i> , 2018 , 6, e13867	2.6	5
36	Left ventricular concentric remodelling and functional impairment in women with ischaemia with no obstructive coronary artery disease and intermediate coronary flow reserve: a report from the WISE-CVD study. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 875-882	4.1	4
35	Peripheral Blood Flow Changes to Cutaneous and Muscular Beds in Response to Acute Hookah Smoking. <i>American Journal of Cardiology</i> , 2020 , 125, 1725-1731	3	4
34	Kinetic differences between macro- and microvascular measures of reactive hyperemia. <i>Journal of Applied Physiology</i> , 2020 , 129, 1183-1192	3.7	4
33	Commentaries on Viewpoint: Principles, insights, and potential pitfalls of the noninvasive determination of muscle oxidative capacity by near-infrared spectroscopy. <i>Journal of Applied Physiology</i> , 2018 , 124, 249-255	3.7	3
32	Diastolic stress testing: similarities and differences between isometric handgrip and cycle echocardiography. <i>Journal of Applied Physiology</i> , 2018 , 125, 529-535	3.7	3
31	Inter-scan Reproducibility of Cardiovascular Magnetic Resonance Imaging-Derived Myocardial Perfusion Reserve Index in Women with no Obstructive Coronary Artery Disease 2018 , 2,		3

30	Brief Report: Vascular Dysfunction and Monocyte Activation Among Women With HIV. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2020 , 85, 233-238	3.1	3
29	Left ventricular circumferential strain and coronary microvascular dysfunction: A report from the Women's Ischemia Syndrome Evaluation Coronary Vascular Dysfunction (WISE-CVD) Project. <i>International Journal of Cardiology</i> , 2021 , 327, 25-30	3.2	3
28	Monitoring and Synchronization of Cardiac and Respiratory Traces in Magnetic Resonance Imaging: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2021 , PP,	6.4	3
27	Sex Differences in Peripheral Artery Disease.. <i>Circulation Research</i> , 2022 , 130, 496-511	15.7	3
26	Progression of coronary microvascular dysfunction to heart failure with preserved ejection fraction: a case report. <i>Journal of Medical Case Reports</i> , 2019 , 13, 134	1.2	2
25	Native myocardial T1 is elevated in subjects with coronary microvascular dysfunction and no obstructive CAD. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
24	Putting the muscle back in microcirculation: From firefighters to near-infrared spectroscopy. <i>Experimental Physiology</i> , 2020 , 105, 1805-1807	2.4	2
23	Impact of bariatric surgery on cerebral vascular reactivity and cognitive function: a non-randomized pilot study. <i>Pilot and Feasibility Studies</i> , 2020 , 6, 21	1.9	2
22	Effects of the self-contained breathing apparatus on left-ventricular function at rest and during graded exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009 , 34, 625-31	3	2
21	Left ventricular diastolic dysfunction and exercise intolerance in obese heart failure with preserved ejection fraction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H1535-H1542	5.2	2
20	Diastolic dysfunction in women with ischemia and no obstructive coronary artery disease: Mechanistic insight from magnetic resonance imaging. <i>International Journal of Cardiology</i> , 2021 , 331, 1-7	3.2	2
19	Diastolic Stress Testing Along the Heart Failure Continuum. <i>Current Heart Failure Reports</i> , 2018 , 15, 332-339	3.3	2
18	Phosphodiesterase type 5 inhibition may reduce diastolic function in women with ischemia but no obstructive coronary artery disease. <i>Journal of Medical Case Reports</i> , 2017 , 11, 144	1.2	1
17	Commentaries on Viewpoint: Managing the power grid: How myoglobin can regulate Po and energy distribution in skeletal muscle. <i>Journal of Applied Physiology</i> , 2019 , 126, 791-794	3.7	1
16	Diastolic Stress Testing: Have You Considered Isometric Handgrip Echocardiography?. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 2095-2097	8.4	1
15	N-Terminal pro-B-type natriuretic peptide and coronary microvascular dysfunction in women with preserved ejection fraction: A report from the Women's Ischemia Syndrome Evaluation-Coronary Vascular Dysfunction (WISE-CVD) study. <i>PLoS ONE</i> , 2020 , 15, e0243213	3.7	1
14	Impact of changes in tissue optical properties on near-infrared diffuse correlation spectroscopy measures of skeletal muscle blood flow. <i>Journal of Applied Physiology</i> , 2021 , 130, 1183-1195	3.7	1
13	Impact of cutaneous blood flow on NIR-DCS measures of skeletal muscle blood flow index. <i>Journal of Applied Physiology</i> , 2021 , 131, 914-926	3.7	1

12	Impaired sympathetic neural recruitment during exercise pressor reflex activation in women with post-traumatic stress disorder.. <i>Clinical Autonomic Research</i> , 2022 , 1	4.3	0
11	Reply to "Letter to the Editor: Exercise MRI in healthy individuals-will the outlier please stand up?". <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 316, R300	3.2	
10	Novel Insight Into the Determinants of Skeletal Muscle Oxygen Consumption by Dual-Wavelength Diffuse Correlation Spectroscopy. <i>FASEB Journal</i> , 2019 , 33, 684.6	0.9	
9	Impaired pulmonary function and right ventricular morphology in well-healed burn survivors is related to aerobic capacity and not severity of burn injury. <i>FASEB Journal</i> , 2019 , 33, 535.9	0.9	
8	Pancreatic triglyceride levels: implications for type 2 diabetes development in ethnic minorities. <i>FASEB Journal</i> , 2012 , 26, 686.20	0.9	
7	A unique model for evaluating obesity cardiomyopathy: Can less mean more?. <i>FASEB Journal</i> , 2012 , 26, 877.3	0.9	
6	Tadalafil-sensitive impairment in muscle blood flow during exercise in Duchenne Muscular Dystrophy. <i>FASEB Journal</i> , 2013 , 27, 943.17	0.9	
5	Phosphodiesterase 5 inhibition rescues functional sympatholysis in Duchenne Muscular Dystrophy. <i>FASEB Journal</i> , 2013 , 27, 943.18	0.9	
4	Severe left ventricular dysfunction following short-term high fat feeding in a canine model. <i>FASEB Journal</i> , 2013 , 27, 1153.10	0.9	
3	Hot Flashes and Cardiovascular Disease Risk Indices Among Women With HIV. <i>Open Forum Infectious Diseases</i> , 2021 , 8, ofab011	1	
2	Cardiovascular Aging. <i>Handbooks in Health, Work, and Disability</i> , 2018 , 175-205		
1	Ultra-high sensitivity cardiac troponin-I concentration and left ventricular structure and function in women with ischemia and no obstructive coronary artery disease. <i>American Heart Journal Plus</i> , 2022 , 13, 100115		