

Michael D Nelson

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

2,505
citations

218677

26
h-index

233421

45
g-index

108
all docs

108
docs citations

108
times ranked

3681
citing authors

#	ARTICLE	IF	CITATIONS
1	Late-life rapamycin treatment reverses age-related heart dysfunction. <i>Aging Cell</i> , 2013, 12, 851-862.	6.7	258
2	The effects of oestrogens and their receptors on cardiometabolic health. <i>Nature Reviews Endocrinology</i> , 2017, 13, 352-364.	9.6	122
3	Reactive hyperemia: a review of methods, mechanisms, and considerations. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R605-R618.	1.8	111
4	Pancreatic Steatosis and Its Relationship to β -Cell Dysfunction in Humans. <i>Diabetes Care</i> , 2012, 35, 2377-2383.	8.6	102
5	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.	4.1	101
6	PDE5 inhibition alleviates functional muscle ischemia in boys with Duchenne muscular dystrophy. <i>Neurology</i> , 2014, 82, 2085-2091.	1.1	94
7	Reductions in cerebral blood flow during passive heat stress in humans: partitioning the mechanisms. <i>Journal of Physiology</i> , 2011, 589, 4053-4064.	2.9	82
8	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.	3.1	77
9	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-H19.	3.2	62
10	Sex Differences in Peripheral Artery Disease. <i>Circulation Research</i> , 2022, 130, 496-511.	4.5	61
11	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, 1019-1024.	1.6	59
12	Age-related microvascular dysfunction: novel insight from near-infrared spectroscopy. <i>Experimental Physiology</i> , 2018, 103, 190-200.	2.0	58
13	Diastolic Dysfunction in Women With Signs and Symptoms of Ischemia in the Absence of Obstructive Coronary Artery Disease. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 510-516.	2.6	55
14	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.	2.2	48
15	Mechanisms of the Improvement in Peak VO ₂ With Exercise Training in Heart Failure With Reduced or Preserved Ejection Fraction. <i>Heart Lung and Circulation</i> , 2018, 27, 9-21.	0.4	48
16	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-H937.	3.2	47
17	Late sodium channel blockade improves angina and myocardial perfusion in patients with severe coronary microvascular dysfunction: Women's Ischemia Syndrome Evaluation's Coronary Vascular Dysfunction ancillary study. <i>International Journal of Cardiology</i> , 2019, 276, 8-13.	1.7	37
18	Athlete's Heart: Is the Morganroth Hypothesis Obsolete?. <i>Heart Lung and Circulation</i> , 2018, 27, 1037-1041.	0.4	36

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19	Sex Differences in Cardiovascular Aging and Heart Failure. <i>Current Heart Failure Reports</i> , 2020, 17, 409-423.	3.3	36
20	Relationship Between Cerebral Blood Flow and Blood Pressure in Long-Term Heart Transplant Recipients. <i>Hypertension</i> , 2014, 64, 1314-1320.	2.7	35
21	Measurement of Pancreatic Volume by Abdominal MRI: A Validation Study. <i>PLoS ONE</i> , 2013, 8, e55991.	2.5	35
22	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.	4.0	33
23	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-H608.	3.2	30
24	Cardiac Steatosis and Left Ventricular Dysfunction in HIV-Infected Patients Treated With Highly Active Antiretroviral Therapy. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 1175-1177.	5.3	28
25	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.	1.7	28
26	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.	1.8	27
27	Sodium nitrate alleviates functional muscle ischaemia in patients with Becker muscular dystrophy. <i>Journal of Physiology</i> , 2015, 593, 5183-5200.	2.9	26
28	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.	2.1	26
29	Performance Limitations in Heart Transplant Recipients. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 144-151.	3.0	25
30	Cocaine-Induced Vasoconstriction in the Human Coronary Microcirculation. <i>Circulation</i> , 2013, 128, 598-604.	1.6	24
31	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.	3.0	24
32	Pathophysiology of exercise intolerance in breast cancer survivors with preserved left ventricular ejection fraction. <i>Clinical Science</i> , 2016, 130, 2239-2244.	4.3	24
33	Effects of Age and Counseling on the Cardiorespiratory Response to Graded Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 255-264.	0.4	22
34	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.	3.3	22
35	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.	1.8	22
36	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.	1.8	22

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37	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.	1.7	21
38	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.	3.6	21
39	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.	2.9	20
40	Impaired Left Ventricular Reserve in Childhood Cancer Survivors Treated With Anthracycline Therapy. <i>Pediatric Blood and Cancer</i> , 2016, 63, 1086-1090.	1.5	19
41	Acute Effect of Hookah Smoking on the Human Coronary Microcirculation. <i>American Journal of Cardiology</i> , 2016, 117, 1747-1754.	1.6	19
42	Heart failure with preserved ejection fraction: Similarities and differences between women and men. <i>International Journal of Cardiology</i> , 2020, 304, 101-108.	1.7	18
43	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.	1.7	18
44	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.	4.0	17
45	Transwomen and the Metabolic Syndrome: Is Orchiectomy Protective?. <i>Transgender Health</i> , 2016, 1, 165-171.	2.5	16
46	Effects of self-contained breathing apparatus on ventricular function during strenuous exercise. <i>Journal of Applied Physiology</i> , 2009, 106, 395-402.	2.5	15
47	Rapid development of cardiac dysfunction in a canine model of insulin resistance and moderate obesity. <i>Diabetologia</i> , 2016, 59, 197-207.	6.3	15
48	Concurrent measurement of skeletal muscle blood flow during exercise with diffuse correlation spectroscopy and Doppler ultrasound. <i>Biomedical Optics Express</i> , 2018, 9, 131.	2.9	15
49	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.	2.7	15
50	Near-infrared spectroscopy detects age-related differences in skeletal muscle oxidative function: promising implications for geroscience. <i>Physiological Reports</i> , 2018, 6, e13588.	1.7	14
51	Resting and exercise cerebral blood flow in long-term heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2012, 31, 906-908.	0.6	13
52	Isometric handgrip echocardiography: A noninvasive stress test to assess left ventricular diastolic function. <i>Clinical Cardiology</i> , 2017, 40, 1247-1255.	1.8	13
53	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.	1.8	12
54	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.	2.2	12

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55	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.	2.5	12
56	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.	1.7	12
57	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.	1.7	12
58	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.	1.7	11
59	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.	1.7	11
60	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.	1.2	11
61	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.	1.7	11
62	Cardiac Structure and Function in Well-Healed Burn Survivors. <i>Journal of Burn Care and Research</i> , 2019, 40, 235-241.	0.4	10
63	Aerobic fitness does not influence the biventricular response to whole body passive heat stress. <i>Journal of Applied Physiology</i> , 2010, 109, 1545-1551.	2.5	9
64	Left ventricular distensibility does not explain impaired exercise capacity in pediatric heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2013, 32, 63-69.	0.6	9
65	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.	1.6	9
66	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.	1.8	9
67	Kinetic differences between macro- and microvascular measures of reactive hyperemia. <i>Journal of Applied Physiology</i> , 2020, 129, 1183-1192.	2.5	9
68	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.	1.8	9
69	Monitoring and Synchronization of Cardiac and Respiratory Traces in Magnetic Resonance Imaging: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2022, 15, 200-221.	18.0	9
70	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.	3.2	8
71	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.	1.7	8
72	Typical angina is associated with greater coronary endothelial dysfunction but not abnormal vasodilatory reserve. <i>Clinical Cardiology</i> , 2017, 40, 886-891.	1.8	7

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73	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.	1.2	7
74	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.	2.5	6
75	Diastolic stress testing: similarities and differences between isometric handgrip and cycle echocardiography. <i>Journal of Applied Physiology</i> , 2018, 125, 529-535.	2.5	6
76	Impaired sympathetic neural recruitment during exercise pressor reflex activation in women with post-traumatic stress disorder. <i>Clinical Autonomic Research</i> , 2022, 32, 115-129.	2.5	6
77	Diastolic Stress Testing Along the Heart Failure Continuum. <i>Current Heart Failure Reports</i> , 2018, 15, 332-339.	3.3	5
78	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.	1.6	5
79	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.	2.5	5
80	Left Atrial Stiffness Index Independently Predicts Exercise Intolerance and Quality of Life in Older, Obese Patients With Heart Failure With Preserved Ejection Fraction. <i>Journal of Cardiac Failure</i> , 2022, 28, 567-575.	1.7	5
81	Brief Report: Vascular Dysfunction and Monocyte Activation Among Women With HIV. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2020, 85, 233-238.	2.1	4
82	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, 625-631.	1.9	3
83	Diastolic Stress Testing. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2095-2097.	5.3	3
84	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.	0.8	3
85	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.	2.5	3
86	Real-Time Cardiac Magnetic Resonance Imaging. <i>Circulation</i> , 2021, 143, 1499-1501.	1.6	3
87	Inter-scan Reproducibility of Cardiovascular Magnetic Resonance Imaging-Derived Myocardial Perfusion Reserve Index in Women with no Obstructive Coronary Artery Disease. <i>Current Trends in Clinical & Medical Imaging</i> , 2018, 2, .	0.2	3
88	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's "Coronary Vascular Dysfunction (WISE-CVD) study. <i>PLoS ONE</i> , 2020, 15, e0243213.	2.5	3
89	Native myocardial T1 is elevated in subjects with coronary microvascular dysfunction and no obstructive CAD. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, P141.	3.3	2
90	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.	0.8	2

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91	Commentaries on Viewpoint: Managing the power grid: How myoglobin can regulate Po ₂ and energy distribution in skeletal muscle. <i>Journal of Applied Physiology</i> , 2019, 126, 791-794.	2.5	2
92	Putting the muscle back in microcirculation: From firefighters to near-infrared spectroscopy. <i>Experimental Physiology</i> , 2020, 105, 1805-1807.	2.0	2
93	Tissue characterization with native T1 mapping in suspected coronary microvascular dysfunction and no obstructive coronary artery disease: results from the NHLBI-sponsored WISE study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O43.	3.3	1
94	Skeletal Muscle Neurovascular Coupling, Oxidative Capacity, and Microvascular Function with 'One Stop Shop' Near-infrared Spectroscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
95	Hot Flashes and Cardiovascular Disease Risk Indices Among Women With HIV. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab011.	0.9	1
96	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.	0.6	1
97	Cardiovascular Aging. <i>Handbooks in Health, Work, and Disability</i> , 2018, , 175-205.	0.0	0
98	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-R300.	1.8	0
99	Pancreatic triglyceride levels: implications for type 2 diabetes development in ethnic minorities. <i>FASEB Journal</i> , 2012, 26, 686.20.	0.5	0
100	A unique model for evaluating obesity cardiomyopathy: Can less mean more?. <i>FASEB Journal</i> , 2012, 26, 877.3.	0.5	0
101	Tadalafil-sensitive impairment in muscle blood flow during exercise in Duchenne Muscular Dystrophy. <i>FASEB Journal</i> , 2013, 27, 943.17.	0.5	0
102	Phosphodiesterase 5 inhibition rescues functional sympatholysis in Duchenne Muscular Dystrophy. <i>FASEB Journal</i> , 2013, 27, 943.18.	0.5	0
103	Severe left ventricular dysfunction following short-term high fat feeding in a canine model. <i>FASEB Journal</i> , 2013, 27, 1153.10.	0.5	0
104	Novel Insight Into the Determinants of Skeletal Muscle Oxygen Consumption by Dual-Wavelength Diffuse Correlation Spectroscopy. <i>FASEB Journal</i> , 2019, 33, 684.6.	0.5	0
105	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.	0.5	0
106	Evaluation of Exercise-Induced Changes in Lung Water Density in Heart Failure with Preserved Ejection Fraction. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
107	Acute Impact of JUUL Electronic Cigarette use on Cerebral Vascular Vasodilator Responsiveness. <i>FASEB Journal</i> , 2022, 36, .	0.5	0