David N Proctor

List of Publications by Year in descending order

87 papers	6,837 citations	126858 33 h-index	69214 77 g-index
87 all docs	87 docs citations	87 times ranked	8145 citing authors

#	Article	IF	Citations
1	Exercise and Physical Activity for Older Adults. Medicine and Science in Sports and Exercise, 2009, 41, 1510-1530.	0.2	3,129
2	Impact of Aerobic Exercise Training on Age-Related Changes in Insulin Sensitivity and Muscle Oxidative Capacity. Diabetes, 2003, 52, 1888-1896.	0.3	532
3	Contribution of nitric oxide and prostaglandins to reactive hyperemia in the human forearm. Journal of Applied Physiology, 1996, 81, 1807-1814.	1.2	231
4	Reduced leg blood flow during dynamic exercise in older endurance-trained men. Journal of Applied Physiology, 1998, 85, 68-75.	1.2	197
5	Skeletal muscle mass and the reduction ofVË™<scp>o</scp> _{2 max} in trained older subjects. Journal of Applied Physiology, 1997, 82, 1411-1415.	1.2	163
6	Changes in myosin heavy chain mRNA and protein expression in human skeletal muscle with age and endurance exercise training. Journal of Applied Physiology, 2005, 99, 95-102.	1.2	146
7	l-Citrulline Supplementation: Impact on Cardiometabolic Health. Nutrients, 2018, 10, 921.	1.7	130
8	Different vasodilator responses of human arms and legs. Journal of Physiology, 2004, 556, 1001-1011.	1.3	126
9	Sex differences in leg vasodilation during graded knee extensor exercise in young adults. Journal of Applied Physiology, 2007, 103, 1583-1591.	1.2	126
10	Age and flow-mediated dilation: a comparison of dilatory responsiveness in the brachial and popliteal arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H3043-H3049.	1.5	116
11	Vasodilation and Vascular Control in Contracting Muscle of the Aging Human. Microcirculation, 2006, 13, 315-327.	1.0	106
12	Influence of age and gender on cardiac output-VË™<scp>o</scp>₂relationships during submaximal cycle ergometry. Journal of Applied Physiology, 1998, 84, 599-605.	1.2	105
13	Impaired leg vasodilation during dynamic exercise in healthy older women. Journal of Applied Physiology, 2003, 95, 1963-1970.	1.2	98
14	Augmented leg vasoconstriction in dynamically exercising older men during acute sympathetic stimulation. Journal of Physiology, 2003, 551, 337-344.	1.3	85
15	Sex-specific influence of aging on exercising leg blood flow. Journal of Applied Physiology, 2008, 104, 655-664.	1.2	83
16	Evidence for sex differences in cardiovascular aging and adaptive responses to physical activity. European Journal of Applied Physiology, 2010, 110, 235-246.	1.2	81
17	Leg blood flow during submaximal cycle ergometry is not reduced in healthy older normally active men. Journal of Applied Physiology, 2003, 94, 1859-1869.	1.2	80
18	Aging women and their endothelium: probing the relative role of estrogen on vasodilator function. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H395-H404.	1.5	79

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19	Heterogeneous vasodilator responses of human limbs: influence of age and habitual endurance training. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H308-H315.	1.5	66
20	Delay time adjustments to minimize errors in breath-by-breath measurement of VË™<scp>o</scp>₂during exercise. Journal of Applied Physiology, 1996, 81, 2495-2499.	1.2	60
21	Evidence for reduced sympatholysis in leg resistance vasculature of healthy older women. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1148-H1156.	1.5	56
22	Replacing Saturated Fat With Walnuts or Vegetable Oils Improves Central Blood Pressure and Serum Lipids in Adults at Risk for Cardiovascular Disease: A Randomized Controlledâ€Feeding Trial. Journal of the American Heart Association, 2019, 8, e011512.	1.6	55
23	Muscle blood flow during exercise: the limits of reductionism. Medicine and Science in Sports and Exercise, 1999, 31, 1036-1040.	0.2	50
24	Reserve capacity for ATP consumption during isometric contraction in human skeletal muscle fibers. Journal of Applied Physiology, 2001, 90, 657-664.	1.2	48
25	Age and regional specificity of peak limb vascular conductance in men. Journal of Applied Physiology, 2005, 98, 193-202.	1.2	48
26	Reduced submaximal leg blood flow after high-intensity aerobic training. Journal of Applied Physiology, 2001, 91, 2619-2627.	1.2	45
27	Protein Intake and Athletic Performance. Sports Medicine, 1991, 12, 313-325.	3.1	40
28	Blood Flow to Exercising Limbs Varies With Age, Gender, and Training Status. Applied Physiology, Nutrition, and Metabolism, 2005, 30, 554-575.	1.7	40
29	Is There a Difference in Vascular Reactivity of the Arms and Legs?. Medicine and Science in Sports and Exercise, 2006, 38, 1819-1828.	0.2	40
30	Age and sex influence the balance between maximal cardiac output and peripheral vascular reserve. Journal of Applied Physiology, 2010, 108, 483-489.	1.2	40
31	Age and regional specificity of peak limb vascular conductance in women. Journal of Applied Physiology, 2005, 99, 2067-2074.	1.2	39
32	Leg Blood Flow and &OV0312;O2 during Peak Cycle Exercise in Younger and Older Women. Medicine and Science in Sports and Exercise, 2004, 36, 623-631.	0.2	38
33	Blood pressure and calf muscle oxygen extraction during plantar flexion exercise in peripheral artery disease. Journal of Applied Physiology, 2017, 123, 2-10.	1.2	35
34	Effects of genetic selection and voluntary activity on the medial gastrocnemius muscle in house mice. Journal of Applied Physiology, 1999, 87, 2326-2333.	1.2	34
35	The association between near-infrared spectroscopy-derived and flow-mediated dilation assessment of vascular responsiveness in the arm. Microvascular Research, 2019, 122, 41-44.	1.1	33
36	Endothelial function, arterial stiffness and adherence to the 2010 Dietary Guidelines for Americans: a cross-sectional analysis. British Journal of Nutrition, 2015, 113, 1773-1781.	1.2	32

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37	Longitudinal changes in physical functional performance among the oldest old: insight from a study of Swedish twins. Aging Clinical and Experimental Research, 2006, 18, 517-530.	1.4	30
38	Differences in vascular function between trained and untrained limbs assessed by near-infrared spectroscopy. European Journal of Applied Physiology, 2018, 118, 2241-2248.	1.2	25
39	Impairments in central cardiovascular function contribute to attenuated reflex vasodilation in aged skin. Journal of Applied Physiology, 2015, 119, 1411-1420.	1.2	23
40	Incorporating freeze-dried strawberry powder into a high-fat meal does not alter postprandial vascular function or blood markers of cardiovascular disease risk: a randomized controlled trial. American Journal of Clinical Nutrition, 2017, 105, 313-322.	2.2	23
41	Cardiovascular and peak ??VO2 responses to supine exercise: effects of age and training status. Medicine and Science in Sports and Exercise, 1996, 28, 892-899.	0.2	22
42	Blood pressure and leg deoxygenation are exaggerated during treadmill walking in patients with peripheral artery disease. Journal of Applied Physiology, 2017, 123, 1160-1165.	1.2	21
43	Arterial stiffness is higher in older adults with increased perceived fatigue and fatigability during walking. Experimental Gerontology, 2015, 61, 92-97.	1.2	19
44	Effects of acute dietary nitrate supplementation on aortic blood pressures and pulse wave characteristics in post-menopausal women. Nitric Oxide - Biology and Chemistry, 2019, 85, 10-16.	1.2	19
45	Coronary Exercise Hyperemia Is Impaired in Patients with Peripheral Arterial Disease. Annals of Vascular Surgery, 2017, 38, 260-267.	0.4	17
46	Consumption of Dried Fruits Is Associated with Greater Intakes of Underconsumed Nutrients, Higher Total Energy Intakes, and Better Diet Quality in US Adults: A Cross-Sectional Analysis of the National Health and Nutrition Examination Survey, 2007-2016. Journal of the Academy of Nutrition and Dietetics, 2021, 121, 1258-1272.	0.4	17
47	Tree Nut Consumption and Adipose Tissue Mass: Mechanisms of Action. Current Developments in Nutrition, 2018, 2, nzy069.	0.1	16
48	Age and microvascular responses to knee extensor exercise in women. European Journal of Applied Physiology, 2008, 103, 343-351.	1.2	15
49	Exercise-induced vasodilation is associated with menopause stage in healthy middle-aged women. Applied Physiology, Nutrition and Metabolism, 2012, 37, 418-424.	0.9	13
50	The effect of culinary doses of spices in a high-saturated fat, high-carbohydrate meal on postprandial lipemia and endothelial function: a randomized, controlled, crossover pilot trial. Food and Function, 2020, 11, 3191-3200.	2.1	12
51	Effect of adrenergic agonists on coronary blood flow: a laboratory study in healthy volunteers. Physiological Reports, 2016, 4, e12806.	0.7	11
52	Beta-1 vs. beta-2 adrenergic control of coronary blood flow during isometric handgrip exercise in humans. Journal of Applied Physiology, 2017, 123, 337-343.	1.2	11
53	Relation of Femoral Diameter, Shear Rate, and Dilatory Response to Knee Extensor Exercise. Medicine and Science in Sports and Exercise, 2010, 42, 1870-1875.	0.2	11
54	Implementation and evaluation of an Exercise is Medicineâ„¢ on campus week. Evaluation and Program Planning, 2015, 52, 176-181.	0.9	10

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55	Femoral shear rate response to knee extensor exercise: An age and sex comparison. Biorheology, 2009, 46, 145-154.	1.2	9
56	A single dose of dietary nitrate supplementation protects against endothelial ischemiaâ€“reperfusion injury in early postmenopausal women. Applied Physiology, Nutrition and Metabolism, 2022, 47, 749-761.	0.9	9
57	Herbs and spices at a relatively high culinary dosage improves 24-hour ambulatory blood pressure in adults at risk of cardiometabolic diseases: a randomized, crossover, controlled-feeding study. American Journal of Clinical Nutrition, 2021, 114, 1936-1948.	2.2	8
58	Sex-Dependent Associations Between Daily Physical Activity and Leg Exercise Blood Pressure Responses. Journal of Aging and Physical Activity, 2011, 19, 306-321.	0.5	7
59	Evidence for the emergence of leg sympathetic vasoconstrictor tone with age in healthy women. Physiological Reports, 2015, 3, e12275.	0.7	7
60	Isometric Handgrip as an Adjunct for Blood Pressure Control: a Primer for Clinicians. Current Hypertension Reports, 2017, 19, 51.	1.5	7
61	Near-infrared spectroscopy detects transient decrements and recovery of microvascular responsiveness following prolonged forearm ischemia. Microvascular Research, 2019, 125, 103879.	1.1	7
62	Sex-specific effect of aging on submaximal leg exercise hemodynamics in middle-aged and older adults. European Journal of Applied Physiology, 2011, 111, 1369-1379.	1.2	6
63	Lifelong physical activity and blood flow to active muscles: sufficient supply to meet the demand. Journal of Physiology, 2012, 590, 5927-5928.	1.3	5
64	Calf exercise-induced vasodilation is blunted in healthy older adults with increased walking performance fatigue. Experimental Gerontology, 2014, 57, 1-5.	1.2	5
65	Retrograde and oscillatory shear increase across the menopause transition. Physiological Reports, 2019, 7, e13965.	0.7	5
66	Acute application of a transdermal nitroglycerin patch protects against prolonged forearm ischemiaâ€induced microvascular dysfunction. Microcirculation, 2020, 27, e12599.	1.0	5
67	Flow-mediated dilation. Journal of Applied Physiology, 2005, 99, 1620-1620.	1.2	4
68	Hormone therapy is associated with preserved smooth muscle structure and dilation in the arterial vasculature of the leg in older women. Maturitas, 2008, 59, 46-54.	1.0	4
69	Esmolol infusion versus propranolol infusion: effects on heart rate and blood pressure in healthy volunteers. Journal of Applied Physiology, 2017, 122, 511-519.	1.2	4
70	Bilateral NIRS measurements of muscle mitochondrial capacity: Feasibility and repeatability. Physiological Reports, 2021, 9, e14826.	0.7	4
71	Application of the LaGrange Polynomial in Skeletal Muscle Fatigue Analysis. Research Quarterly for Exercise and Sport, 2002, 73, 168-174.	0.8	3
72	Arterial Compliance And Responsiveness: Relative Impact Of Menopause And Fitness. Medicine and Science in Sports and Exercise, 2010, 42, 303.	0.2	3

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73	Esmolol acutely alters oxygen supply-demand balance in exercising muscles of healthy humans. Physiological Reports, 2018, 6, e13673.	0.7	2
74	A prospective community engagement initiative to improve clinical research participation in patients with peripheral artery disease. SAGE Open Medicine, 2020, 8, 205031212093091.	0.7	2
75	Inorganic nitrate supplementation and blood flow restricted exercise tolerance in post-menopausal women. Nitric Oxide - Biology and Chemistry, 2022, 122-123, 26-34.	1.2	2
76	Found in â€˜transitionâ€™: shifting mechanisms of aerobic exercise adaptation in ageing women. Journal of Physiology, 2017, 595, 4119-4120.	1.3	1
77	Peripheral vasodilation is reduced during exercise in perimenopausal women with elevated cardiovascular risk. Menopause, 2020, 27, 1167-1170.	0.8	1
78	Commentary on Viewpoint: Exercise and cardiovascular risk reduction: Time to update the rationale for exercise?. Journal of Applied Physiology, 2008, 105, 778-778.	1.2	0
79	The Exercise Pressor Reflex in Hyper- and Hypo- Responsive Humans. Medicine and Science in Sports and Exercise, 2017, 49, 828.	0.2	0
80	Blunted leg vasodilation during isolated quadriceps exercise in healthy older women. FASEB Journal, 2007, 21, A1238.	0.2	0
81	Feasibility Of A Regional K40 Detector To Determine Differences In Triceps Surae Muscle Quality. FASEB Journal, 2007, 21, A578.	0.2	0
82	Dietary Nitrate Supplementation Does Not Augment Endothelium-Mediated Vasodilation During Handgrip Exercise In Young Healthy Men. Medicine and Science in Sports and Exercise, 2014, 46, 750.	0.2	0
83	Patterns of Conduit Artery Shear Stress Across the Menopause Transition. FASEB Journal, 2018, 32, lb308.	0.2	0
84	Nitrate Supplementation Influences Contraction-Relaxation Rates During Ischemic Exercise in Post-Menopausal Women. Medicine and Science in Sports and Exercise, 2018, 50, 593.	0.2	0
85	Retrograde and Oscillatory Shear Remain Stable Across the Menstrual Cycle but Increase in Postmenopausal Women. FASEB Journal, 2019, 33, lb504.	0.2	0
86	A Time-Efficient NIRS Protocol For Cross- And Within-limb Comparisons Of Muscle Oxidative Capacity. Medicine and Science in Sports and Exercise, 2020, 52, 84-84.	0.2	0
87	Invasive Physiological Measurements in Patients with Peripheral Artery Disease: Willingness and Barriers to Participation. FASEB Journal, 2020, 34, 1-1.	0.2	0