# Joel D Trinity

List of Publications by Year
in descending order



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|---|---|---|---|
| 91 papers | 2,101 citations | 201674 27 h-index | 254184 43 g-index |
| 91 all docs | 91 docs citations | 91 times ranked | 2449 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | On the contribution of group III and IV muscle afferents to the circulatory response to rhythmic exercise in humans. Journal of Physiology, 2011, 589, 3855-3866. | 2.9 | 134 |
| 2 | Cardiac, skeletal, and smooth muscle mitochondrial respiration: are all mitochondria created equal?. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H346-H352. | 3.2 | 97 |
| 3 | Nitric oxide and passive limb movement: a new approach to assess vascular function. Journal of Physiology, 2012, 590, 1413-1425. | 2.9 | 86 |
| 4 | Progressive handgrip exercise: evidence of nitric oxide-dependent vasodilation and blood flow regulation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1101-H1107. | 3.2 | 85 |
| 5 | Changes in Muscle Activity and Kinematics of Highly Trained Cyclists During Fatigue. IEEE Transactions on Biomedical Engineering, 2008, 55, 2666-2674. | 4.2 | 84 |
| 6 | Further Peripheral Vascular Dysfunction inÂHeart Failure Patients With a Continuous-Flow Left Ventricular Assist Device. JACC: Heart Failure, 2015, 3, 703-711. | 4.1 | 83 |
| 7 | Symmorphosis and skeletal muscle : <i>in vivo</i> and <i>in vitro</i> measures reveal differing constraints in the exerciseâ€trained and untrained human. Journal of Physiology, 2016, 594, 1741-1751. | 2.9 | 79 |
| 8 | Assessment of resistance vessel function in human skeletal muscle: guidelines for experimental design, Doppler ultrasound, and pharmacology. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H301-H325. | 3.2 | 78 |
| 9 | Strong Relationship Between Vascular Function in the Coronary and Brachial Arteries. Hypertension, 2019, 74, 208-215. | 2.7 | 63 |
| 10 | Passive leg movement and nitric oxide-mediated vascular function: the impact of age. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H672-H679. | 3.2 | 61 |
| 11 | Regulation of exercise blood flow: Role of free radicals. Free Radical Biology and Medicine, 2016, 98, 90-102. | 2.9 | 57 |
| 12 | Does Brachial Artery Flowâ€“Mediated Vasodilation Provide a Bioassay for NO?. Hypertension, 2013, 62, 345-351. | 2.7 | 56 |
| 13 | Attenuated exercise induced hyperaemia with age: mechanistic insight from passive limb movement. Journal of Physiology, 2010, 588, 4507-4517. | 2.9 | 54 |
| 14 | The impact of ageing on adipose structure, function and vasculature in the B6D2F1 mouse: evidence of significant multisystem dysfunction. Journal of Physiology, 2014, 592, 4083-4096. | 2.9 | 54 |
| 15 | Interaction of hyperthermia and heart rate on stroke volume during prolonged exercise. Journal of Applied Physiology, 2010, 109, 745-751. | 2.5 | 51 |
| 16 | Limb movement-induced hyperemia has a central hemodynamic component: evidence from a neural blockade study. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1693-H1700. | 3.2 | 48 |
| 17 | The role of nitric oxide in passive leg movementâ€induced vasodilatation with age: insight from alterations in femoral perfusion pressure. Journal of Physiology, 2015, 593, 3917-3928. | 2.9 | 43 |
| 18 | Endothelin-AÂ-Mediated Vasoconstriction During Exercise With Advancing Age. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 554-565. | 3.6 | 40 |

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|---|---|---|---|
| 19 | Elevated arterial shear rate increases indexes of endothelial cell autophagy and nitric oxide synthase activation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H106-H112. | 3.2 | 36 |
| 20 | <i>InÂvivo</i> evidence of an age-related increase in ATP cost of contraction in the plantar flexor muscles. Clinical Science, 2014, 126, 581-592. | 4.3 | 34 |
| 21 | Acute High-Intensity Exercise Impairs Skeletal Muscle Respiratory Capacity. Medicine and Science in Sports and Exercise, 2018, 50, 2409-2417. | 0.4 | 34 |
| 22 | Impact of body position on central and peripheral hemodynamic contributions to movement-induced hyperemia: implications for rehabilitative medicine. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1885-H1891. | 3.2 | 33 |
| 23 | Heart failure and movement-induced hemodynamics: Partitioning the impact of central and peripheral dysfunction. International Journal of Cardiology, 2015, 178, 232-238. | 1.7 | 33 |
| 24 | Quadriceps exercise intolerance in patients with chronic obstructive pulmonary disease: the potential role of altered skeletal muscle mitochondrial respiration. Journal of Applied Physiology, 2015, 119, 882-888. | 2.5 | 33 |
| 25 | Single passive leg movement assessment of vascular function: contribution of nitric oxide. Journal of Applied Physiology, 2017, 123, 1468-1476. | 2.5 | 33 |
| 26 | Taming the â€œsleeping giantâ€: the role of endothelin-1 in the regulation of skeletal muscle blood flow and arterial blood pressure during exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H162-H169. | 3.2 | 32 |
| 27 | Attenuated relationship between cardiac output and oxygen uptake during highâ€intensity exercise. Acta Physiologica, 2012, 204, 362-370. | 3.8 | 29 |
| 28 | Increased skeletal muscle mitochondrial free radical production in peripheral arterial disease despite preserved mitochondrial respiratory capacity. Experimental Physiology, 2018, 103, 838-850. | 2.0 | 29 |
| 29 | Perfusion pressure and movement-induced hyperemia: evidence of limited vascular function and vasodilatory reserve with age. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H610-H619. | 3.2 | 28 |
| 30 | Physiological Impact and Clinical Relevance of Passive Exercise/Movement. Sports Medicine, 2019, 49, 1365-1381. | 6.5 | 27 |
| 31 | Maximal Mechanical Power during a Taper in Elite Swimmers. Medicine and Science in Sports and Exercise, 2006, 38, 1643-1649. | 0.4 | 26 |
| 32 | Ascorbic acid improves brachial artery vasodilation during progressive handgrip exercise in the elderly through a nitric oxide-mediated mechanism. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H765-H774. | 3.2 | 24 |
| 33 | Altered skeletal muscle mitochondrial phenotype in COPD: disease vs. disuse. Journal of Applied Physiology, 2018, 124, 1045-1053. | 2.5 | 24 |
| 34 | Accuracy and precision of quantitative<sup>31</sup>P-MRS measurements of human skeletal muscle mitochondrial function. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E358-E366. | 3.5 | 23 |
| 35 | Impact of Polyphenol Antioxidants on Cycling Performance and Cardiovascular Function. Nutrients, 2014, 6, 1273-1292. | 4.1 | 22 |
| 36 | Contribution of nitric oxide to brachial artery vasodilation during progressive handgrip exercise in the elderly. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R893-R899. | 1.8 | 21 |

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|---|---|---|---|
| 37 | Mitochondrial function and increased convective O<sub>2</sub> transport: implications for the assessment of mitochondrial respiration in vivo. Journal of Applied Physiology, 2013, 115, 803-811. | 2.5 | 21 |
| 38 | Impact of Age and Body Position on the Contribution of Nitric Oxide to Femoral Artery Shear Rate. Hypertension, 2014, 63, 1019-1025. | 2.7 | 20 |
| 39 | Oral antioxidants improve leg blood flow during exercise in patients with chronic obstructive pulmonary disease. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H977-H985. | 3.2 | 20 |
| 40 | Maximal strength training increases muscle force generating capacity and the anaerobic ATP synthesis flux without altering the cost of contraction in elderly. Experimental Gerontology, 2018, 111, 154-161. | 2.8 | 20 |
| 41 | Influence of dietary inorganic nitrate on blood pressure and vascular function in hypertension: prospective implications for adjunctive treatment. Journal of Applied Physiology, 2019, 127, 1085-1094. | 2.5 | 20 |
| 42 | Serum Sodium Concentration Changes Are Related to Fluid Balance and Sweat Sodium Loss. Medicine and Science in Sports and Exercise, 2010, 42, 1669-1674. | 0.4 | 18 |
| 43 | Cardiovascular responses to rhythmic handgrip exercise in heart failure with preserved ejection fraction. Journal of Applied Physiology, 2020, 129, 1267-1276. | 2.5 | 17 |
| 44 | Impact of presymptomatic COVID-19 on vascular and skeletal muscle function: a case study. Journal of Applied Physiology, 2021, 130, 1961-1970. | 2.5 | 17 |
| 45 | Impaired Muscle Efficiency but Preserved Peripheral Hemodynamics and Mitochondrial Function With Advancing Age: Evidence From Exercise in the Young, Old, and Oldest-Old. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1303-1312. | 3.6 | 16 |
| 46 | Passive leg movement-induced vasodilation in women: the impact of age. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H995-H1002. | 3.2 | 15 |
| 47 | Mitochondrial function in heart failure: The impact of ischemic and non-ischemic etiology. International Journal of Cardiology, 2016, 220, 711-717. | 1.7 | 15 |
| 48 | Impact of age on exercise-induced ATP supply during supramaximal plantar flexion in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R378-R388. | 1.8 | 13 |
| 49 | Skeletal Muscle Mitochondrial Adaptations to Maximal Strength Training in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 2269-2277. | 3.6 | 10 |
| 50 | Cardiovasomobility: an integrative understanding of how disuse impacts cardiovascular and skeletal muscle health. Journal of Applied Physiology, 2022, 132, 835-861. | 2.5 | 10 |
| 51 | Activating P2Y1 receptors improves function in arteries with repressed autophagy. Cardiovascular Research, 2023, 119, 252-267. | 3.8 | 10 |
| 52 | Oxygen delivery and the restoration of the muscle energetic balance following exercise: implications for delayed muscle recovery in patients with COPD. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E94-E104. | 3.5 | 9 |
| 53 | The role of the endothelium in the hyperemic response to passive leg movement: looking beyond nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H668-H678. | 3.2 | 9 |
| 54 | Evidence of a metabolic reserve in the skeletal muscle of elderly people. Aging, 2016, 9, 52-67. | 3.1 | 9 |

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|---|---|---|---|
| 55 | Delineating the age-related attenuation of vascular function: Evidence supporting the efficacy of the single passive leg movement as a screening tool. Journal of Applied Physiology, 2019, 126, 1525-1532. | 2.5 | 8 |
| 56 | Something is definitely better than nothing: simple strategies to prevent vascular dysfunction. Clinical Science, 2017, 131, 1055-1058. | 4.3 | 7 |
| 57 | Endogenous endothelin-1 and femoral artery shear rate. Journal of Hypertension, 2016, 34, 266-273. | 0.5 | 6 |
| 58 | Passive leg movement in chronic obstructive pulmonary disease: evidence of locomotor muscle vascular dysfunction. Journal of Applied Physiology, 2020, 128, 1402-1411. | 2.5 | 5 |
| 59 | Spinal cord injury and vascular function: evidence from diameter-matched vessels. Journal of Applied Physiology, 2021, 130, 562-570. | 2.5 | 5 |
| 60 | Effect of histamine-receptor antagonism on leg blood flow during exercise. Journal of Applied Physiology, 2020, 128, 1626-1634. | 2.5 | 4 |
| 61 | The dynamic adjustment of mean arterial pressure during exercise: a potential tool for discerning cardiovascular health status. Journal of Applied Physiology, 2021, 130, 1544-1554. | 2.5 | 4 |
| 62 | Comments on Point:Counterpoint: Skeletal muscle mechanical efficiency does/does not increase with age. Journal of Applied Physiology, 2013, 114, 1114-1118. | 2.5 | 3 |
| 63 | The role of endothelin A receptors in peripheral vascular control at rest and during exercise in patients with hypertension. Journal of Physiology, 2020, 598, 71-84. | 2.9 | 3 |
| 64 | Nitric oxide synthase inhibition with N(G)-monomethyl-l-arginine: Determining the window of effect in the human vasculature. Nitric Oxide - Biology and Chemistry, 2020, 104-105, 51-60. | 2.7 | 3 |
| 65 | Acute high-intensity exercise and skeletal muscle mitochondrial respiratory function: role of metabolic perturbation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R687-R698. | 1.8 | 3 |
| 66 | Short-term exposure to a clinical dose of metformin increases skeletal muscle mitochondrial H2O2 emission and production in healthy, older adults: A randomized controlled trial. Experimental Gerontology, 2022, 163, 111804. | 2.8 | 3 |
| 67 | Dietary Nitrate Supplementation and Small Muscle Mass Exercise Hemodynamics in Patients with Essential Hypertension. Journal of Applied Physiology, 0, , . | 2.5 | 2 |
| 68 | Heterogeneity of blood flow: impact of age on muscle specific tissue perfusion during exercise. Journal of Physiology, 2014, 592, 1729-1730. | 2.9 | 1 |
| 69 | Persistent vascular dysfunction following an acute nonpharmacological reduction in blood pressure in hypertensive patients. Journal of Hypertension, 2022, 40, 1115-1125. | 0.5 | 1 |
| 70 | Commentary on: an (un)paralleled process?. Experimental Physiology, 2013, 98, 1325-1325. | 2.0 | 0 |
| 71 | Gender Differences In Sweat Sodium Loss In Well-trained Endurance Athletes. Medicine and Science in Sports and Exercise, 2007, 39, S277. | 0.4 | 0 |
| 72 | The Effects of Continuousâ€flow Left Ventricular Assist Devices on Peripheral Vascular Function. FASEB Journal, 2013, 27, 1136.16. | 0.5 | 0 |

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|---|---|---|---|
| 73 | Exerciseâ€induced PCr recovery kinetics and tissue oxygenation: The role of free radicals and aging. FASEB Journal, 2013, 27, 1202.17. | 0.5 | 0 |
| 74 | Is Sympathetic Restraint of Skeletal Muscle Blood Flow Present During Exercise?. FASEB Journal, 2013, 27, 1136.2. | 0.5 | 0 |
| 75 | Flow Mediated Vasodilation And Limb Disuse Following A Spinal Cord Injury. Medicine and Science in Sports and Exercise, 2014, 46, 667. | 0.4 | 0 |
| 76 | Mitochondrial Function and Insulin Sensitivity Following 6 Weeks of Single-Leg Cycling in Metabolic Syndrome Patients. Medicine and Science in Sports and Exercise, 2015, 47, 238. | 0.4 | 0 |
| 77 | Peripheral Vascular Dysfunction Following Left Ventricular Assist Device Implantation. Medicine and Science in Sports and Exercise, 2016, 48, 189. | 0.4 | 0 |
| 78 | Passive Leg Movement (PLM) in Patients with COPD. Medicine and Science in Sports and Exercise, 2016, 48, 801. | 0.4 | 0 |
| 79 | The Age-related Decline In Vo2max. Medicine and Science in Sports and Exercise, 2017, 49, 904-905. | 0.4 | 0 |
| 80 | Role of Alphaâ€1 Adrenergic Vasoconstriction in Regulating Skeletal Muscle Blood Flow during Single Leg Knee Extension Exercise with Advancing Age. FASEB Journal, 2018, 32, 594.5. | 0.5 | 0 |
| 81 | Sex Differences in the Sympathetic Restraint of Skeletal Muscle Blood Flow in the Human Leg Vasculature. FASEB Journal, 2018, 32, 594.4. | 0.5 | 0 |
| 82 | Cardiovascular Responses to Dynamic Handgrip Exercise in Patients with Heart Failure with Preserved Ejection Fraction. FASEB Journal, 2018, 32, 726.1. | 0.5 | 0 |
| 83 | Rhythmic handgrip exercise elevates arterial shearâ€rate and increases indices of endothelial cell autophagy and nitric oxide synthase activation in humans. FASEB Journal, 2018, 32, 902.1. | 0.5 | 0 |
| 84 | Blood Pressure and Vascular Function in Hypertensive Individuals: Partitioning cause and effect. FASEB Journal, 2018, 32, 847.11. | 0.5 | 0 |
| 85 | Mechanisms of Ageâ€related Compensatory Vasodilation: Insight from Passive Leg Movement. FASEB Journal, 2018, 32, 726.7. | 0.5 | 0 |
| 86 | Delineating the ageâ€related attenuation of vascular function: evidence supporting the efficacy of single passive leg movement.. FASEB Journal, 2018, 32, 578.6. | 0.5 | 0 |
| 87 | Influence of altered physical activity on vascular function in older adults: A divergent impact on the conduit and microvascular systems. FASEB Journal, 2018, 32, 713.1. | 0.5 | 0 |
| 88 | Impact of Acute Dietary Nitrate Supplementation on Exercise Blood Flow in Hypertension: Does Medication Status Matter?. FASEB Journal, 2019, 33, 696.17. | 0.5 | 0 |
| 89 | Evidence for an Ageâ€Associated Impairment of Exerciseâ€Induced Autophagy and eNOS Activation in Primary Arterial Endothelial Cells from Humans. FASEB Journal, 2019, 33, 696.2. | 0.5 | 0 |
| 90 | The Role of Endothelinâ€1 in Exercising Blood Flow and Blood Pressure Regulation in Patients with Hypertension. FASEB Journal, 2019, 33, 696.11. | 0.5 | 0 |

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|---|---|---|---|
| 91 | Impact of Salt Restriction on Central and Peripheral Hemodynamics During Exercise in Essential Hypertension: A Systematic Investigation. FASEB Journal, 2019, 33, 835.10. | 0.5 | 0 |