# Zachary J Domire

List of Publications by Year
in descending order



| 34 | 748 | 623734 | 526287 |
|---|---|---|---|
| papers | citations | 14 h-index | 27 g-index |

| 34 | 34 | 34 | 906 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Implications of microscale lung damage for COVID-19 pulmonary ventilation dynamics: A narrative review. Life Sciences, 2021, 274, 119341. | 4.3 | 17 |
| 2 | Practice day may be unnecessary prior to testing knee extensor strength in young healthy adults. International Biomechanics, 2020, 7, 58-65. | 1.0 | 3 |
| 3 | Measurement of intrinsic foot stiffness in minimally and traditionally shod runners using ultrasound elastography: A pilot study. Journal of Sports Sciences, 2020, 38, 1516-1523. | 2.0 | 4 |
| 4 | A Six-Year Review of the Biomedical Engineering in Simulations, Imaging, and Modeling Undergraduate Research Experience. Journal of Biomechanical Engineering, 2020, 142, . | 1.3 | 3 |
| 5 | Fatigue Increases Center of Pressure Sway. Medicine and Science in Sports and Exercise, 2019, 51, 634-634. | 0.4 | 0 |
| 6 | Impact Of Reduced Plantar Sensation On Balance Control. Medicine and Science in Sports and Exercise, 2019, 51, 775-776. | 0.4 | 2 |
| 7 | UCL Stiffness Response to a Moderate Pitching Bout. Medicine and Science in Sports and Exercise, 2019, 51, 781-781. | 0.4 | 1 |
| 8 | The effect of Nordic hamstring strength training on muscle architecture, stiffness, and strength. European Journal of Applied Physiology, 2017, 117, 943-953. | 2.5 | 92 |
| 9 | Simulations, Imaging, and Modeling: A Unique Theme for an Undergraduate Research Program in Biomechanics. Journal of Biomechanical Engineering, 2017, 139, . | 1.3 | 2 |
| 10 | Assessing the accuracy of subject-specific, muscle-model parameters determined by optimizing to match isometric strength. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1730-1737. | 1.6 | 3 |
| 11 | The Relationships Between Muscle Force Steadiness and Visual Steadiness in Young and Old Adults. Motor Control, 2015, 19, 60-74. | 0.6 | 5 |
| 12 | Males and Females Respond Similarly to Walking With a Standardized, Heavy Load. Military Medicine, 2015, 180, 994-1000. | 0.8 | 30 |
| 13 | Insights to vertical jumping from computer simulations. Movement and Sports Sciences - Science Et Motricite, 2015, , 69-78. | 0.3 | 1 |
| 14 | Maximum height and minimum time vertical jumping. Journal of Biomechanics, 2015, 48, 2865-2870. | 2.1 | 20 |
| 15 | Heterogeneous fascicle behavior within the biceps femoris long head at different muscle activation levels. Journal of Biomechanics, 2014, 47, 3050-3055. | 2.1 | 17 |
| 16 | Vertical Ground Reaction Forces for Given Human Standing Posture With Uneven Terrains: Prediction and Validation. IEEE Transactions on Human-Machine Systems, 2013, 43, 225-234. | 3.5 | 6 |
| 17 | An analysis of foot stiffness in barefoot and traditionally shod runners. Footwear Science, 2013, 5, S132-S133. | 2.1 | 0 |
| 18 | CALORIE RESTRICTION AS A MEANS TO CONTROL SKELETAL MUSCLE STIFFNESS IN AGED RATS. Journal of Musculoskeletal Research, 2012, 15, 1250019. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Direct optimisation-based planar human vertical jumping simulation. International Journal of Human Factors Modelling and Simulation, 2011, 2, 47. | 0.2 | 5 |
| 20 | Evaluation of muscles affected by myositis using magnetic resonance elastography. Muscle and Nerve, 2011, 43, 585-590. | 2.2 | 63 |
| 21 | An examination of possible quadriceps force at the time of anterior cruciate ligament injury during landing: A simulation study. Journal of Biomechanics, 2011, 44, 1630-1632. | 2.1 | 28 |
| 22 | Effect of collagen digestion on the passive elastic properties of diaphragm muscle in rat. Medical Engineering and Physics, 2010, 32, 90-94. | 1.7 | 10 |
| 23 | An induced energy analysis to determine the mechanism for performance enhancement as a result of arm swing during jumping. Sports Biomechanics, 2010, 9, 38-46. | 1.6 | 34 |
| 24 | Elbow strength and endurance in patients with a ruptured distal biceps tendon. Journal of Shoulder and Elbow Surgery, 2010, 19, 184-189. | 2.6 | 94 |
| 25 | Measurement of stiffness changes in immobilized muscle using magnetic resonance elastography. Clinical Biomechanics, 2010, 25, 499-503. | 1.2 | 17 |
| 26 | A critical examination of the maximum velocity of shortening used in simulation models of human movement. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 693-699. | 1.6 | 7 |
| 27 | Wave attenuation as a measure of muscle quality as measured by magnetic resonance elastography: Initial results. Journal of Biomechanics, 2009, 42, 537-540. | 2.1 | 24 |
| 28 | The effect of triangular fibrocartilage complex injury on extensor carpi ulnaris function and friction. Clinical Biomechanics, 2009, 24, 807-811. | 1.2 | 0 |
| 29 | Radiocapitellar joint stability with bipolar versus monopolar radial head prostheses. Journal of Shoulder and Elbow Surgery, 2009, 18, 779-784. | 2.6 | 85 |
| 30 | Stem diameter and micromotion of press fit radial head prosthesis: A biomechanical study. Journal of Shoulder and Elbow Surgery, 2009, 18, 785-790. | 2.6 | 49 |
| 31 | Feasibility of Using Magnetic Resonance Elastography to Study the Effect of Aging on Shear Modulus of Skeletal Muscle. Journal of Applied Biomechanics, 2009, 25, 93-97. | 0.8 | 44 |
| 32 | The influence of squat depth on maximal vertical jump performance. Journal of Sports Sciences, 2007, 25, 193-200. | 2.0 | 72 |
| 33 | The influence of an elastic tendon on the force producing capabilities of a muscle during dynamic movements. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 337-341. | 1.6 | 10 |
| 34 | A Simulation Study of the Effect of Arm Swing on Maximum Vertical Jump Performance. Medicine and Science in Sports and Exercise, 2004, 36, S346. | 0.4 | 0 |