

Zachary J Domire

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

748
citations

623188

14
h-index

525886

27
g-index

34
all docs

34
docs citations

34
times ranked

906
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of microscale lung damage for COVID-19 pulmonary ventilation dynamics: A narrative review. <i>Life Sciences</i> , 2021, 274, 119341.	2.0	17
2	Practice day may be unnecessary prior to testing knee extensor strength in young healthy adults. <i>International Biomechanics</i> , 2020, 7, 58-65.	0.9	3
3	Measurement of intrinsic foot stiffness in minimally and traditionally shod runners using ultrasound elastography: A pilot study. <i>Journal of Sports Sciences</i> , 2020, 38, 1516-1523.	1.0	4
4	A Six-Year Review of the Biomedical Engineering in Simulations, Imaging, and Modeling Undergraduate Research Experience. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	3
5	Fatigue Increases Center of Pressure Sway. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 634-634.	0.2	0
6	Impact Of Reduced Plantar Sensation On Balance Control. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 775-776.	0.2	2
7	UCL Stiffness Response to a Moderate Pitching Bout. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 781-781.	0.2	1
8	The effect of Nordic hamstring strength training on muscle architecture, stiffness, and strength. <i>European Journal of Applied Physiology</i> , 2017, 117, 943-953.	1.2	92
9	Simulations, Imaging, and Modeling: A Unique Theme for an Undergraduate Research Program in Biomechanics. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	2
10	Assessing the accuracy of subject-specific, muscle-model parameters determined by optimizing to match isometric strength. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1730-1737.	0.9	3
11	The Relationships Between Muscle Force Steadiness and Visual Steadiness in Young and Old Adults. <i>Motor Control</i> , 2015, 19, 60-74.	0.3	5
12	Males and Females Respond Similarly to Walking With a Standardized, Heavy Load. <i>Military Medicine</i> , 2015, 180, 994-1000.	0.4	30
13	Insights to vertical jumping from computer simulations. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2015, , 69-78.	0.2	1
14	Maximum height and minimum time vertical jumping. <i>Journal of Biomechanics</i> , 2015, 48, 2865-2870.	0.9	20
15	Heterogeneous fascicle behavior within the biceps femoris long head at different muscle activation levels. <i>Journal of Biomechanics</i> , 2014, 47, 3050-3055.	0.9	17
16	Vertical Ground Reaction Forces for Given Human Standing Posture With Uneven Terrains: Prediction and Validation. <i>IEEE Transactions on Human-Machine Systems</i> , 2013, 43, 225-234.	2.5	6
17	An analysis of foot stiffness in barefoot and traditionally shod runners. <i>Footwear Science</i> , 2013, 5, S132-S133.	0.8	0
18	CALORIE RESTRICTION AS A MEANS TO CONTROL SKELETAL MUSCLE STIFFNESS IN AGED RATS. <i>Journal of Musculoskeletal Research</i> , 2012, 15, 1250019.	0.1	0

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19	Direct optimisation-based planar human vertical jumping simulation. <i>International Journal of Human Factors Modelling and Simulation</i> , 2011, 2, 47.	0.1	5
20	Evaluation of muscles affected by myositis using magnetic resonance elastography. <i>Muscle and Nerve</i> , 2011, 43, 585-590.	1.0	63
21	An examination of possible quadriceps force at the time of anterior cruciate ligament injury during landing: A simulation study. <i>Journal of Biomechanics</i> , 2011, 44, 1630-1632.	0.9	28
22	Effect of collagen digestion on the passive elastic properties of diaphragm muscle in rat. <i>Medical Engineering and Physics</i> , 2010, 32, 90-94.	0.8	10
23	An induced energy analysis to determine the mechanism for performance enhancement as a result of arm swing during jumping. <i>Sports Biomechanics</i> , 2010, 9, 38-46.	0.8	34
24	Elbow strength and endurance in patients with a ruptured distal biceps tendon. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 184-189.	1.2	94
25	Measurement of stiffness changes in immobilized muscle using magnetic resonance elastography. <i>Clinical Biomechanics</i> , 2010, 25, 499-503.	0.5	17
26	A critical examination of the maximum velocity of shortening used in simulation models of human movement. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 693-699.	0.9	7
27	Wave attenuation as a measure of muscle quality as measured by magnetic resonance elastography: Initial results. <i>Journal of Biomechanics</i> , 2009, 42, 537-540.	0.9	24
28	The effect of triangular fibrocartilage complex injury on extensor carpi ulnaris function and friction. <i>Clinical Biomechanics</i> , 2009, 24, 807-811.	0.5	0
29	Radiocapitellar joint stability with bipolar versus monopolar radial head prostheses. <i>Journal of Shoulder and Elbow Surgery</i> , 2009, 18, 779-784.	1.2	85
30	Stem diameter and micromotion of press fit radial head prosthesis: A biomechanical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2009, 18, 785-790.	1.2	49
31	Feasibility of Using Magnetic Resonance Elastography to Study the Effect of Aging on Shear Modulus of Skeletal Muscle. <i>Journal of Applied Biomechanics</i> , 2009, 25, 93-97.	0.3	44
32	The influence of squat depth on maximal vertical jump performance. <i>Journal of Sports Sciences</i> , 2007, 25, 193-200.	1.0	72
33	The influence of an elastic tendon on the force producing capabilities of a muscle during dynamic movements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 337-341.	0.9	10
34	A Simulation Study of the Effect of Arm Swing on Maximum Vertical Jump Performance. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S346.	0.2	0