

# Richard T Jaspers

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

3,450  
citations

147801

31  
h-index

182427

51  
g-index

131  
all docs

131  
docs citations

131  
times ranked

4666  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                                 | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Stiff matrices enhance myoblast proliferation, reduce differentiation, and alter the response to fluid shear stress in vitro. <i>Cell Biochemistry and Biophysics</i> , 2022, 80, 161.                                                                                  | 1.8 | 1         |
| 2  | Reduced growth rate of aged muscle stem cells is associated with impaired mechanosensitivity. <i>Aging</i> , 2022, 14, 28-53.                                                                                                                                           | 3.1 | 8         |
| 3  | Glycine receptor subunit- $\beta$ -deficiency in a mouse model of spasticity results in attenuated physical performance, growth, and muscle strength. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R368-R388. | 1.8 | 2         |
| 4  | Local administration of low doses of exogenous BMP2 and leptin promotes ectopic bone regeneration in leptin-deficient mice. <i>Bio-Medical Materials and Engineering</i> , 2022, , 1-11.                                                                                | 0.6 | 0         |
| 5  | Lack of <i>Tgfb1</i> and <i>Acvr1b</i> synergistically stimulates myofibre hypertrophy and accelerates muscle regeneration. <i>ELife</i> , 2022, 11, .                                                                                                                  | 6.0 | 9         |
| 6  | The relationship between quantitative magnetic resonance imaging of the ankle plantar flexors, muscle function during walking and maximal strength in people with neuromuscular diseases. <i>Clinical Biomechanics</i> , 2022, 94, 105609.                              | 1.2 | 0         |
| 7  | Does a Hypertrophying Muscle Fibre Reprogramme its Metabolism Similar to a Cancer Cell?. <i>Sports Medicine</i> , 2022, 52, 2569-2578.                                                                                                                                  | 6.5 | 17        |
| 8  | Fluid shear stress-induced mechanotransduction in myoblasts: Does it depend on the glycocalyx?. <i>Experimental Cell Research</i> , 2022, 417, 113204.                                                                                                                  | 2.6 | 2         |
| 9  | Effects of Acute and Chronic Resistance Exercise on the Skeletal Muscle Metabolome. <i>Metabolites</i> , 2022, 12, 445.                                                                                                                                                 | 2.9 | 9         |
| 10 | Notoginsenoside R1 Promotes Migration, Adhesion, Spreading, and Osteogenic Differentiation of Human Adipose Tissue-Derived Mesenchymal Stromal Cells. <i>Molecules</i> , 2022, 27, 3403.                                                                                | 3.8 | 3         |
| 11 | Synergistic short-term and long-term effects of TGF- $\beta$ 1 and 3 on collagen production in differentiating myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2021, 547, 176-182.                                                              | 2.1 | 11        |
| 12 | Pulsating fluid flow affects pre-osteoblast behavior and osteogenic differentiation through production of soluble factors. <i>Physiological Reports</i> , 2021, 9, e14917.                                                                                              | 1.7 | 5         |
| 13 | Myofiber stretch induces tensile and shear deformation of muscle stem cells in their native niche. <i>Biophysical Journal</i> , 2021, 120, 2665-2678.                                                                                                                   | 0.5 | 13        |
| 14 | Under the Hood: Skeletal Muscle Determinants of Endurance Performance. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 719434.                                                                                                                                  | 1.8 | 28        |
| 15 | Systematic Review of Lumbar Elastic Tape on Trunk Mobility: A Debatable Issue. <i>Archives of Rehabilitation Research and Clinical Translation</i> , 2021, 3, 100131.                                                                                                   | 0.9 | 2         |
| 16 | Stimuli for Adaptations in Muscle Length and the Length Range of Active Force Exertion—A Narrative Review. <i>Frontiers in Physiology</i> , 2021, 12, 742034.                                                                                                           | 2.8 | 27        |
| 17 | Fibrodysplasia Ossificans Progressiva: What Have We Achieved and Where Are We Now? Follow-up to the 2015 Lorentz Workshop. <i>Frontiers in Endocrinology</i> , 2021, 12, 732728.                                                                                        | 3.5 | 15        |
| 18 | Notoginsenoside R1 attenuates oxidative stress-induced osteoblast dysfunction through JNK signalling pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 11278-11289.                                                                                | 3.6 | 27        |

| #  | ARTICLE                                                                                                                                                                                                                                                      | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Training-Induced Muscle Adaptations During Competitive Preparation in Elite Female Rowers. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 781942.                                                                                                   | 1.8 | 6         |
| 20 | Effect of vasti morphology on peak sprint cycling power of a human musculoskeletal simulation model. <i>Journal of Applied Physiology</i> , 2020, 128, 445-455.                                                                                              | 2.5 | 5         |
| 21 | RGD-functionalized supported lipid bilayers modulate pre-osteoblast adherence and promote osteogenic differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 923-937.                                                         | 4.0 | 5         |
| 22 | Foot flexibility confounds the assessment of triceps surae extensibility in children with spastic paresis during typical physical examinations. <i>Journal of Biomechanics</i> , 2020, 99, 109532.                                                           | 2.1 | 9         |
| 23 | Shear Stress Modulates Osteoblast Cell and Nucleus Morphology and Volume. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8361.                                                                                                               | 4.1 | 15        |
| 24 | Gastrocnemius Medialis Muscle Geometry and Extensibility in Typically Developing Children and Children With Spastic Paresis Aged 6–13 Years. <i>Frontiers in Physiology</i> , 2020, 11, 528522.                                                              | 2.8 | 7         |
| 25 | Changes in inflammation and musculoskeletal tissue-derived biomarker serum levels in response to high- and low-intensity resistance training in individuals with knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2020, 28, S336-S337.             | 1.3 | 0         |
| 26 | TGF- $\beta$ 2 Regulates Collagen Type I Expression in Myoblasts and Myotubes via Transient Ctgf and Fgf-2 Expression. <i>Cells</i> , 2020, 9, 375.                                                                                                          | 4.1 | 44        |
| 27 | Salivary Histatin 1 and 2 Are Targeted to Mitochondria and Endoplasmic Reticulum in Human Cells. <i>Cells</i> , 2020, 9, 795.                                                                                                                                | 4.1 | 11        |
| 28 | PKM2 Determines Myofiber Hypertrophy In Vitro and Increases in Response to Resistance Exercise in Human Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7062.                                                                | 4.1 | 21        |
| 29 | Remodeling of Rat M. Gastrocnemius Medialis During Recovery From Aponeurotomy. <i>Frontiers in Physiology</i> , 2020, 11, 541302.                                                                                                                            | 2.8 | 2         |
| 30 | Physicochemical Niche Conditions and Mechanosensing by Osteocytes and Myocytes. <i>Current Osteoporosis Reports</i> , 2019, 17, 235-249.                                                                                                                     | 3.6 | 17        |
| 31 | Comprehensive evaluation of gait, spasticity, and muscle morphology: A case report of a child with spastic paresis treated with Botulinum NeuroToxin-A, serial casting, and physiotherapy. <i>Clinical Case Reports (discontinued)</i> , 2019, 7, 1637-1646. | 0.5 | 2         |
| 32 | Anthropometric Clusters of Competitive Cyclists and Their Sprint and Endurance Performance. <i>Frontiers in Physiology</i> , 2019, 10, 1276.                                                                                                                 | 2.8 | 19        |
| 33 | Metabolic Cost of Activation and Mechanical Efficiency of Mouse Soleus Muscle Fiber Bundles During Repetitive Concentric and Eccentric Contractions. <i>Frontiers in Physiology</i> , 2019, 10, 760.                                                         | 2.8 | 8         |
| 34 | Effects of different training modalities on phosphate homeostasis and local vitamin D metabolism in rat bone. <i>PeerJ</i> , 2019, 7, e6184.                                                                                                                 | 2.0 | 6         |
| 35 | Single-cell analysis uncovers that metabolic reprogramming by ErbB2 signaling is essential for cardiomyocyte proliferation in the regenerating heart. <i>ELife</i> , 2019, 8, .                                                                              | 6.0 | 162       |
| 36 | Mechanosensitivity of aged muscle stem cells. <i>Journal of Orthopaedic Research</i> , 2018, 36, 632-641.                                                                                                                                                    | 2.3 | 29        |

| #  | ARTICLE                                                                                                                                                                                                                                                       | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Muscle morphology of the vastus lateralis is strongly related to ergometer performance, sprint capacity and endurance capacity in Olympic rowers. <i>Journal of Sports Sciences</i> , 2018, 36, 2111-2120.                                                    | 2.0 | 30        |
| 38 | Measuring wearing time of knee-ankle-foot orthoses in children with cerebral palsy: comparison of parent-report and objective measurement. <i>Disability and Rehabilitation</i> , 2018, 40, 398-403.                                                          | 1.8 | 9         |
| 39 | Reduced dietary intake of micronutrients with antioxidant properties negatively impacts muscle health in aged mice. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 146-159.                                                                     | 7.3 | 26        |
| 40 | Critical determinants of combined sprint and endurance performance: an integrative analysis from muscle fiber to the human body. <i>FASEB Journal</i> , 2018, 32, 2110-2123.                                                                                  | 0.5 | 45        |
| 41 | The Role of IGF-1 Signaling in Skeletal Muscle Atrophy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1088, 109-137.                                                                                                                           | 1.6 | 60        |
| 42 | Past, Present, and Future Perspective of Targeting Myostatin and Related Signaling Pathways to Counteract Muscle Atrophy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1088, 153-206.                                                         | 1.6 | 27        |
| 43 | Commentaries on Viewpoint: $\dot{V}_{I\ddot{t}} <sc>o </sc> <sub>2peak </sub>$ is an acceptable estimate of cardiorespiratory fitness but not $\dot{V}_{I\ddot{t}} <sc>o </sc> <sub>2max </sub>$ . <i>Journal of Applied Physiology</i> , 2018, 125, 966-967. | 2.5 | 3         |
| 44 | Adaptations in muscle oxidative capacity, fiber size, and oxygen supply capacity after repeated-sprint training in hypoxia combined with chronic hypoxic exposure. <i>Journal of Applied Physiology</i> , 2018, 124, 1403-1412.                               | 2.5 | 25        |
| 45 | Outcome of medial hamstring lengthening in children with spastic paresis: A biomechanical and morphological observational study. <i>PLoS ONE</i> , 2018, 13, e0192573.                                                                                        | 2.5 | 19        |
| 46 | O63: Medial gastrocnemius muscle in children with Spastic Paresis show growth defects for muscle volume and altered normalized muscle and tendon length compared to typically developed children. <i>Gait and Posture</i> , 2017, 57, 110-111.                | 1.4 | 0         |
| 47 | Effects of Botulinum Toxin-A and casting treatment on assessed spasticity, muscle morphology and gait kinematics in spastic paresis. <i>Gait and Posture</i> , 2017, 57, 104-105.                                                                             | 1.4 | 0         |
| 48 | 3D Ultrasound Imaging: Fast and Cost-effective Morphometry of Musculoskeletal Tissue. <i>Journal of Visualized Experiments</i> , 2017, , .                                                                                                                    | 0.3 | 19        |
| 49 | Exercise, fasting, and mimetics: toward beneficial combinations?. <i>FASEB Journal</i> , 2017, 31, 14-28.                                                                                                                                                     | 0.5 | 36        |
| 50 | Muscle Volume Is A Critical Determinant Of Rowing Performance In Olympic Rowers. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 768-769.                                                                                                      | 0.4 | 1         |
| 51 | Commentary: Validation of a Ramp Running Protocol for Determination of the True $\dot{V}O_{2max}$ in Mice. <i>Frontiers in Physiology</i> , 2017, 8, 330.                                                                                                     | 2.8 | 3         |
| 52 | IGF-1 Attenuates Hypoxia-Induced Atrophy but Inhibits Myoglobin Expression in C2C12 Skeletal Muscle Myotubes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1889.                                                                            | 4.1 | 14        |
| 53 | Oxygenation Threshold Derived from Near-Infrared Spectroscopy: Reliability and Its Relationship with the First Ventilatory Threshold. <i>PLoS ONE</i> , 2016, 11, e0162914.                                                                                   | 2.5 | 48        |
| 54 | Maximal oxygen uptake is proportional to muscle fiber oxidative capacity, from chronic heart failure patients to professional cyclists. <i>Journal of Applied Physiology</i> , 2016, 121, 636-645.                                                            | 2.5 | 59        |

| #  | ARTICLE                                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Freehand three-dimensional ultrasound to assess semitendinosus muscle morphology. <i>Journal of Anatomy</i> , 2016, 229, 591-599.                                                                                                          | 1.5 | 34        |
| 56 | Effects of 1,25(OH) <sub>2</sub> D <sub>3</sub> and 25(OH)D <sub>3</sub> on C2C12 Myoblast Proliferation, Differentiation, and Myotube Hypertrophy. <i>Journal of Cellular Physiology</i> , 2016, 231, 2517-2528.                          | 4.1 | 45        |
| 57 | Regulation of myoglobin in hypertrophied rat cardiomyocytes in experimental pulmonary hypertension. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1697-1707.                                                          | 2.8 | 7         |
| 58 | Reply to Gifford et al.: Symmorphosis in chronic heart failure patients?. <i>Journal of Applied Physiology</i> , 2016, 121, 1040-1040.                                                                                                     | 2.5 | 0         |
| 59 | Blunted angiogenesis and hypertrophy are associated with increased fatigue resistance and unchanged aerobic capacity in old overloaded mouse muscle. <i>Age</i> , 2016, 38, 39.                                                            | 3.0 | 35        |
| 60 | Mechanical Stimulation and IGF-1 Enhance mRNA Translation Rate in Osteoblasts Via Activation of the AKT-mTOR Pathway. <i>Journal of Cellular Physiology</i> , 2016, 231, 1283-1290.                                                        | 4.1 | 33        |
| 61 | Comparison of the validity of Hill and Huxley muscle tendon complex models using experimental data obtained from rat m. soleus in situ. <i>Journal of Experimental Biology</i> , 2016, 219, 977-87.                                        | 1.7 | 9         |
| 62 | Knee Moment-Angle Characteristics and Semitendinosus Muscle Morphology in Children with Spastic Paresis Selected for Medial Hamstring Lengthening. <i>PLoS ONE</i> , 2016, 11, e0166401.                                                   | 2.5 | 20        |
| 63 | Single muscle fibre contractile properties differ between bodybuilders, power athletes and control subjects. <i>Experimental Physiology</i> , 2015, 100, 1331-1341.                                                                        | 2.0 | 37        |
| 64 | Assessment of net knee moment-angle characteristics by instrumented hand-held dynamometry in children with spastic cerebral palsy and typically developing children. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 67. | 4.6 | 8         |
| 65 | Ageing related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 702-707.                                                             | 2.1 | 22        |
| 66 | Blunted hypertrophic response in old mouse muscle is associated with a lower satellite cell density and is not alleviated by resveratrol. <i>Experimental Gerontology</i> , 2015, 62, 23-31.                                               | 2.8 | 32        |
| 67 | Muscle contractile properties as an explanation of the higher mean power output in marmosets than humans during jumping. <i>Journal of Experimental Biology</i> , 2015, 218, 2166-73.                                                      | 1.7 | 12        |
| 68 | A chronotype comparison of South African and Dutch marathon runners: The role of scheduled race start times and effects on performance. <i>Chronobiology International</i> , 2015, 32, 858-868.                                            | 2.0 | 44        |
| 69 | Increased Endoplasmic Reticulum Stress in Mouse Osteocytes with Aging Alters Cox-2 Response to Mechanical Stimuli. <i>Calcified Tissue International</i> , 2015, 96, 123-128.                                                              | 3.1 | 29        |
| 70 | IL-6 and IGF-1 Signaling Within and Between Muscle and Bone: How Important is the mTOR Pathway for Bone Metabolism?. <i>Current Osteoporosis Reports</i> , 2015, 13, 131-139.                                                              | 3.6 | 36        |
| 71 | Medial gastrocnemius muscle growth during adolescence is mediated by increased fascicle diameter rather than by longitudinal fascicle growth. <i>Journal of Anatomy</i> , 2015, 226, 530-541.                                              | 1.5 | 35        |
| 72 | Decrease in ankle-foot dorsiflexion range of motion is related to increased knee flexion during gait in children with spastic cerebral palsy. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 339-346.                      | 1.7 | 8         |

| #  | ARTICLE                                                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Mechanical output in jumps of marmosets ( <i>Callithrix jacchus</i> ). <i>Journal of Experimental Biology</i> , 2014, 217, 482-8.                                                                                                                       | 1.7  | 6         |
| 74 | Intramuscular Connective Tissue Differences in Spastic and Control Muscle: A Mechanical and Histological Study. <i>PLoS ONE</i> , 2014, 9, e101038.                                                                                                     | 2.5  | 92        |
| 75 | Muscle-Type Specific Autophosphorylation of CaMKII Isoforms after Paced Contractions. <i>BioMed Research International</i> , 2014, 2014, 1-20.                                                                                                          | 1.9  | 8         |
| 76 | Increased oxidative metabolism and myoglobin expression in zebrafish muscle during chronic hypoxia. <i>Biology Open</i> , 2014, 3, 718-727.                                                                                                             | 1.2  | 24        |
| 77 | Plantaris muscle weakness in old mice: relative contributions of changes in specific force, muscle mass, myofiber cross-sectional area, and number. <i>Age</i> , 2014, 36, 9726.                                                                        | 3.0  | 21        |
| 78 | CaMKII content affects contractile, but not mitochondrial, characteristics in regenerating skeletal muscle. <i>BMC Physiology</i> , 2014, 14, 7.                                                                                                        | 3.6  | 21        |
| 79 | An MRI study on the relations between muscle atrophy, shoulder function and glenohumeral deformity in shoulders of children with obstetric brachial plexus injury. <i>Journal of Brachial Plexus and Peripheral Nerve Injury</i> , 2014, 04, e21-e28.   | 1.0  | 27        |
| 80 | Ageing related changes in determinants of muscle force generating capacity: A comparison of muscle aging in men and male rodents. <i>Ageing Research Reviews</i> , 2014, 14, 43-55.                                                                     | 10.9 | 93        |
| 81 | Biochemical Interaction Between Muscle and Bone: A Physiological Reality?. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014, 12, 27-43.                                                                                                    | 0.8  | 8         |
| 82 | Mechanically Loaded Myotubes Affect Osteoclast Formation. <i>Calcified Tissue International</i> , 2014, 94, 319-326.                                                                                                                                    | 3.1  | 21        |
| 83 | Mechanical Loading by Fluid Shear Stress of Myotube Glycocalyx Stimulates Growth Factor Expression and Nitric Oxide Production. <i>Cell Biochemistry and Biophysics</i> , 2014, 69, 411-419.                                                            | 1.8  | 49        |
| 84 | A randomized controlled trial studying efficacy and tolerance of a knee-ankle-foot orthosis used to prevent equinus in children with spastic cerebral palsy. <i>Clinical Rehabilitation</i> , 2014, 28, 1025-1038.                                      | 2.2  | 22        |
| 85 | Muscle physiology: move to translation. <i>Journal of Muscle Research and Cell Motility</i> , 2014, 35, 1-2.                                                                                                                                            | 2.0  | 0         |
| 86 | Right ventricular oxygen supply parameters are decreased in human and experimental pulmonary hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2013, 32, 231-240.                                                                        | 0.6  | 53        |
| 87 | Attenuated Increase in Maximal Force of Rat Medial Gastrocnemius Muscle after Concurrent Peak Power and Endurance Training. <i>BioMed Research International</i> , 2013, 2013, 1-9.                                                                     | 1.9  | 12        |
| 88 | Effects of Concurrent Training on Oxidative Capacity in Rat Gastrocnemius Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1674-1683.                                                                                             | 0.4  | 7         |
| 89 | Movement within foot and ankle joint in children with spastic cerebral palsy: a 3-dimensional ultrasound analysis of medial gastrocnemius length with correction for effects of foot deformation. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 365. | 1.9  | 29        |
| 90 | Musculoskeletal growth in the upper arm in infants after obstetric brachial plexus lesions and its relation with residual muscle function. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 1050-1056.                                     | 2.1  | 14        |

| #   | ARTICLE                                                                                                                                                                                                     | IF  | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Expression of muscle anabolic and metabolic factors in mechanically loaded MLO-Y4 osteocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E389-E395.                  | 3.5 | 64        |
| 92  | Splint: the efficacy of orthotic management in rest to prevent equinus in children with cerebral palsy, a randomised controlled trial. <i>BMC Pediatrics</i> , 2012, 12, 38.                                | 1.7 | 16        |
| 93  | Early effects of muscle atrophy on shoulder joint development in infants with unilateral birth brachial plexus injury. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 173-178.               | 2.1 | 28        |
| 94  | Effects of growth on geometry of gastrocnemius muscle in children: a three-dimensional ultrasound analysis. <i>Journal of Anatomy</i> , 2011, 219, 388-402.                                                 | 1.5 | 66        |
| 95  | Physiological angiogenesis is a graded, not threshold, response. <i>Journal of Physiology</i> , 2011, 589, 195-206.                                                                                         | 2.9 | 29        |
| 96  | The time course of myonuclear accretion during hypertrophy in young adult and older rat plantaris muscle. <i>Annals of Anatomy</i> , 2011, 193, 56-63.                                                      | 1.9 | 29        |
| 97  | Effects of alfacalcidol on circulating cytokines and growth factors in rat skeletal muscle. <i>Journal of Physiological Sciences</i> , 2011, 61, 525-35.                                                    | 2.1 | 10        |
| 98  | Time course of changes in the myonuclear domain during denervation in young adult and old rat gastrocnemius muscle. <i>Muscle and Nerve</i> , 2011, 43, 212-222.                                            | 2.2 | 39        |
| 99  | The muscle fiber type fiber size paradox: hypertrophy or oxidative metabolism?. <i>European Journal of Applied Physiology</i> , 2010, 110, 665-694.                                                         | 2.5 | 213       |
| 100 | SB431542 treatment promotes the hypertrophy of skeletal muscle fibers but decreases specific force. <i>Muscle and Nerve</i> , 2010, 41, 624-629.                                                            | 2.2 | 31        |
| 101 | Reproducibility of hand-held ankle dynamometry to measure altered ankle moment-angle characteristics in children with spastic cerebral palsy. <i>Clinical Biomechanics</i> , 2010, 25, 802-808.             | 1.2 | 41        |
| 102 | Reinforcement versus Fluidization in Cytoskeletal Mechanoresponsiveness. <i>PLoS ONE</i> , 2009, 4, e5486.                                                                                                  | 2.5 | 232       |
| 103 | Anatomical information is needed in ultrasound imaging of muscle to avoid potentially substantial errors in measurement of muscle geometry. <i>Muscle and Nerve</i> , 2009, 39, 652-665.                    | 2.2 | 129       |
| 104 | A critical role for myoglobin in zebrafish development. <i>International Journal of Developmental Biology</i> , 2009, 53, 517-524.                                                                          | 0.6 | 18        |
| 105 | Transcriptome analysis of the response to chronic constant hypoxia in zebrafish hearts. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 77-92. | 1.5 | 103       |
| 106 | Skeletal muscle capillarization and oxidative metabolism in healthy smokers. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 1240-1245.                                                     | 1.9 | 20        |
| 107 | Humans adjust control to initial squat depth in vertical squat jumping. <i>Journal of Applied Physiology</i> , 2008, 105, 1428-1440.                                                                        | 2.5 | 68        |
| 108 | MUSCLE ACTIVATION PATTERNS IN SQUAT JUMPS FROM DIFFERENT INITIAL POSITIONS. <i>Journal of Biomechanics</i> , 2007, 40, S300.                                                                                | 2.1 | 1         |

| #   | ARTICLE                                                                                                                                                                                                                      | IF  | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Differential effects of muscle fibre length and insulin on muscle-specific mRNA content in isolated mature muscle fibres during long-term culture. <i>Cell and Tissue Research</i> , 2006, 326, 795-808.                     | 2.9 | 24        |
| 110 | Krogh's diffusion coefficient for oxygen in isolated <i>Xenopus</i> skeletal muscle fibers and rat myocardial trabeculae at maximum rates of oxygen consumption. <i>Journal of Applied Physiology</i> , 2005, 99, 2173-2180. | 2.5 | 44        |
| 111 | Healing of the aponeurosis during recovery from aponeurotomy: Morphological and histological adaptation and related changes in mechanical properties. <i>Journal of Orthopaedic Research</i> , 2005, 23, 266-273.            | 2.3 | 14        |
| 112 | Adaptation of muscle size and myofascial force transmission: a review and some new experimental results. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2005, 15, 349-380.                                  | 2.9 | 126       |
| 113 | Effects of strain on contractile force and number of sarcomeres in series of <i>Xenopus laevis</i> single muscle fibres during long-term culture. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 285-296.   | 2.0 | 13        |
| 114 | Myofascial force transmission between a single muscle head and adjacent tissues: length effects of head III of rat EDL. <i>Journal of Applied Physiology</i> , 2003, 95, 2004-2013.                                          | 2.5 | 39        |
| 115 | Acute and Long-Term Effects on Muscle Force After Intramuscular Aponeurotic Lengthening. <i>Clinical Orthopaedics and Related Research</i> , 2000, 378, 264-273.                                                             | 1.5 | 38        |
| 116 | Acute effects of intramuscular aponeurotomy on rat gastrocnemius medialis: Force transmission, muscle force and sarcomere length. <i>Journal of Biomechanics</i> , 1999, 32, 71-79.                                          | 2.1 | 62        |
| 117 | IGF1 stimulates protein synthesis by enhancing mRNA translation rate in osteoblasts. <i>Bone Abstracts</i> , 0, , .                                                                                                          | 0.0 | 0         |