# Richard T Jaspers

List of Publications by Year
in descending order



| 117 | 3,450 | 147801 | 182427 |
|---|---|---|---|
| papers | citations | 31 h-index | 51 g-index |

| 131 | 131 | 131 | 4666 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reinforcement versus Fluidization in Cytoskeletal Mechanoresponsiveness. PLoS ONE, 2009, 4, e5486. | 2.5 | 232 |
| 2 | The muscle fiber typeâ€“fiber size paradox: hypertrophy or oxidative metabolism?. European Journal of Applied Physiology, 2010, 110, 665-694. | 2.5 | 213 |
| 3 | Single-cell analysis uncovers that metabolic reprogramming by ErbB2 signaling is essential for cardiomyocyte proliferation in the regenerating heart. ELife, 2019, 8, . | 6.0 | 162 |
| 4 | Anatomical information is needed in ultrasound imaging of muscle to avoid potentially substantial errors in measurement of muscle geometry. Muscle and Nerve, 2009, 39, 652-665. | 2.2 | 129 |
| 5 | Adaptation of muscle size and myofascial force transmission: a review and some new experimental results. Scandinavian Journal of Medicine and Science in Sports, 2005, 15, 349-380. | 2.9 | 126 |
| 6 | Transcriptome analysis of the response to chronic constant hypoxia in zebrafish hearts. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 77-92. | 1.5 | 103 |
| 7 | Aging related changes in determinants of muscle force generating capacity: A comparison of muscle aging in men and male rodents. Ageing Research Reviews, 2014, 14, 43-55. | 10.9 | 93 |
| 8 | Intramuscular Connective Tissue Differences in Spastic and Control Muscle: A Mechanical and Histological Study. PLoS ONE, 2014, 9, e101038. | 2.5 | 92 |
| 9 | Humans adjust control to initial squat depth in vertical squat jumping. Journal of Applied Physiology, 2008, 105, 1428-1440. | 2.5 | 68 |
| 10 | Effects of growth on geometry of gastrocnemius muscle in children: a three-dimensional ultrasound analysis. Journal of Anatomy, 2011, 219, 388-402. | 1.5 | 66 |
| 11 | Expression of muscle anabolic and metabolic factors in mechanically loaded MLO-Y4 osteocytes. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E389-E395. | 3.5 | 64 |
| 12 | Acute effects of intramuscular aponeurotomy on rat gastrocnemius medialis: Force transmission, muscle force and sarcomere length. Journal of Biomechanics, 1999, 32, 71-79. | 2.1 | 62 |
| 13 | The Role of IGF-1 Signaling in Skeletal Muscle Atrophy. Advances in Experimental Medicine and Biology, 2018, 1088, 109-137. | 1.6 | 60 |
| 14 | Maximal oxygen uptake is proportional to muscle fiber oxidative capacity, from chronic heart failure patients to professional cyclists. Journal of Applied Physiology, 2016, 121, 636-645. | 2.5 | 59 |
| 15 | Right ventricular oxygen supply parameters are decreased in human and experimental pulmonary hypertension. Journal of Heart and Lung Transplantation, 2013, 32, 231-240. | 0.6 | 53 |
| 16 | Mechanical Loading by Fluid Shear Stress of Myotube Glycocalyx Stimulates Growth Factor Expression and Nitric Oxide Production. Cell Biochemistry and Biophysics, 2014, 69, 411-419. | 1.8 | 49 |
| 17 | Oxygenation Threshold Derived from Near-Infrared Spectroscopy: Reliability and Its Relationship with the First Ventilatory Threshold. PLoS ONE, 2016, 11, e0162914. | 2.5 | 48 |
| 18 | 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. Journal of Cellular Physiology, 2016, 231, 2517-2528. | 4.1 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Critical determinants of combined sprint and endurance performance: an integrative analysis from muscle fiber to the human body. FASEB Journal, 2018, 32, 2110-2123. | 0.5 | 45 |
| 20 | Kroghâ€™s diffusion coefficient for oxygen in isolated Xenopus skeletal muscle fibers and rat myocardial trabeculae at maximum rates of oxygen consumption. Journal of Applied Physiology, 2005, 99, 2173-2180. | 2.5 | 44 |
| 21 | A chronotype comparison of South African and Dutch marathon runners: The role of scheduled race start times and effects on performance. Chronobiology International, 2015, 32, 858-868. | 2.0 | 44 |
| 22 | TGF-Î² Regulates Collagen Type I Expression in Myoblasts and Myotubes via Transient Ctgf and Fgf-2 Expression. Cells, 2020, 9, 375. | 4.1 | 44 |
| 23 | Reproducibility of hand-held ankle dynamometry to measure altered ankle moment-angle characteristics in children with spastic cerebral palsy. Clinical Biomechanics, 2010, 25, 802-808. | 1.2 | 41 |
| 24 | Myofascial force transmission between a single muscle head and adjacent tissues: length effects of head III of rat EDL. Journal of Applied Physiology, 2003, 95, 2004-2013. | 2.5 | 39 |
| 25 | Timeâ€course of changes in the myonuclear domain during denervation in youngâ€adult and old rat gastrocnemius muscle. Muscle and Nerve, 2011, 43, 212-222. | 2.2 | 39 |
| 26 | Acute and Long-Term Effects on Muscle Force After Intramuscular Aponeurotic Lengthening. Clinical Orthopaedics and Related Research, 2000, 378, 264-273. | 1.5 | 38 |
| 27 | Single muscle fibre contractile properties differ between bodyâ€builders, power athletes and control subjects. Experimental Physiology, 2015, 100, 1331-1341. | 2.0 | 37 |
| 28 | IL-6 and IGF-1 Signaling Within and Between Muscle and Bone: How Important is the mTOR Pathway for Bone Metabolism?. Current Osteoporosis Reports, 2015, 13, 131-139. | 3.6 | 36 |
| 29 | Exercise, fasting, and mimetics: toward beneficial combinations?. FASEB Journal, 2017, 31, 14-28. | 0.5 | 36 |
| 30 | Medial gastrocnemius muscle growth during adolescence is mediated by increased fascicle diameter rather than by longitudinal fascicle growth. Journal of Anatomy, 2015, 226, 530-541. | 1.5 | 35 |
| 31 | Blunted angiogenesis and hypertrophy are associated with increased fatigue resistance and unchanged aerobic capacity in old overloaded mouse muscle. Age, 2016, 38, 39. | 3.0 | 35 |
| 32 | Freehand threeâ€dimensional ultrasound to assess semitendinosus muscle morphology. Journal of Anatomy, 2016, 229, 591-599. | 1.5 | 34 |
| 33 | Mechanical Stimulation and IGFâ€1 Enhance mRNA Translation Rate in Osteoblasts Via Activation of the AKTâ€mTOR Pathway. Journal of Cellular Physiology, 2016, 231, 1283-1290. | 4.1 | 33 |
| 34 | Blunted hypertrophic response in old mouse muscle is associated with a lower satellite cell density and is not alleviated by resveratrol. Experimental Gerontology, 2015, 62, 23-31. | 2.8 | 32 |
| 35 | SB431542 treatment promotes the hypertrophy of skeletal muscle fibers but decreases specific force. Muscle and Nerve, 2010, 41, 624-629. | 2.2 | 31 |
| 36 | Muscle morphology of the vastus lateralis is strongly related to ergometer performance, sprint capacity and endurance capacity in Olympic rowers. Journal of Sports Sciences, 2018, 36, 2111-2120. | 2.0 | 30 |

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|---|---|---|---|
| 37 | Physiological angiogenesis is a graded, not threshold, response. Journal of Physiology, 2011, 589, 195-206. | 2.9 | 29 |
| 38 | The time course of myonuclear accretion during hypertrophy in young adult and older rat plantaris muscle. Annals of Anatomy, 2011, 193, 56-63. | 1.9 | 29 |
| 39 | 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. BMC Musculoskeletal Disorders, 2013, 14, 365. | 1.9 | 29 |
| 40 | Increased Endoplasmic Reticulum Stress in Mouse Osteocytes with Aging Alters Cox-2 Response to Mechanical Stimuli. Calcified Tissue International, 2015, 96, 123-128. | 3.1 | 29 |
| 41 | ÂÂÂMechanosensitivity of aged muscle stem cells. Journal of Orthopaedic Research, 2018, 36, 632-641. | 2.3 | 29 |
| 42 | Early effects of muscle atrophy on shoulder joint development in infants with unilateral birth brachial plexus injury. Developmental Medicine and Child Neurology, 2011, 53, 173-178. | 2.1 | 28 |
| 43 | Under the Hood: Skeletal Muscle Determinants of Endurance Performance. Frontiers in Sports and Active Living, 2021, 3, 719434. | 1.8 | 28 |
| 44 | An MRI study on the relations between muscle atrophy, shoulder function and glenohumeral deformity in shoulders of children with obstetric brachial plexus injury. Journal of Brachial Plexus and Peripheral Nerve Injury, 2014, 04, e21-e28. | 1.0 | 27 |
| 45 | Past, Present, and Future Perspective of Targeting Myostatin and Related Signaling Pathways to Counteract Muscle Atrophy. Advances in Experimental Medicine and Biology, 2018, 1088, 153-206. | 1.6 | 27 |
| 46 | Stimuli for Adaptations in Muscle Length and the Length Range of Active Force Exertionâ€"A Narrative Review. Frontiers in Physiology, 2021, 12, 742034. | 2.8 | 27 |
| 47 | Notoginsenoside R1 attenuates oxidative stressâ€induced osteoblast dysfunction through JNK signalling pathway. Journal of Cellular and Molecular Medicine, 2021, 25, 11278-11289. | 3.6 | 27 |
| 48 | Reduced dietary intake of micronutrients with antioxidant properties negatively impacts muscle health in aged mice. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 146-159. | 7.3 | 26 |
| 49 | Adaptations in muscle oxidative capacity, fiber size, and oxygen supply capacity after repeated-sprint training in hypoxia combined with chronic hypoxic exposure. Journal of Applied Physiology, 2018, 124, 1403-1412. | 2.5 | 25 |
| 50 | Differential effects of muscle fibre length and insulin on muscle-specific mRNA content in isolated mature muscle fibres during long-term culture. Cell and Tissue Research, 2006, 326, 795-808. | 2.9 | 24 |
| 51 | Increased oxidative metabolism and myoglobin expression in zebrafish muscle during chronic hypoxia. Biology Open, 2014, 3, 718-727. | 1.2 | 24 |
| 52 | A randomized controlled trial studying efficacy and tolerance of a knee-ankle-foot orthosis used to prevent equinus in children with spastic cerebral palsy. Clinical Rehabilitation, 2014, 28, 1025-1038. | 2.2 | 22 |
| 53 | Aging related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. Biochemical and Biophysical Research Communications, 2015, 468, 702-707. | 2.1 | 22 |
| 54 | Plantaris muscle weakness in old mice: relative contributions of changes in specific force, muscle mass, myofiber cross-sectional area, and number. Age, 2014, 36, 9726. | 3.0 | 21 |

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|---|---|---|---|
| 55 | CaMKII content affects contractile, but not mitochondrial, characteristics in regenerating skeletal muscle. BMC Physiology, 2014, 14, 7. | 3.6 | 21 |
| 56 | Mechanically Loaded Myotubes Affect Osteoclast Formation. Calcified Tissue International, 2014, 94, 319-326. | 3.1 | 21 |
| 57 | PKM2 Determines Myofiber Hypertrophy In Vitro and Increases in Response to Resistance Exercise in Human Skeletal Muscle. International Journal of Molecular Sciences, 2020, 21, 7062. | 4.1 | 21 |
| 58 | Skeletal muscle capillarization and oxidative metabolism in healthy smokers. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1240-1245. | 1.9 | 20 |
| 59 | Knee Moment-Angle Characteristics and Semitendinosus Muscle Morphology in Children with Spastic Paresis Selected for Medial Hamstring Lengthening. PLoS ONE, 2016, 11, e0166401. | 2.5 | 20 |
| 60 | 3D Ultrasound Imaging: Fast and Cost-effective Morphometry of Musculoskeletal Tissue. Journal of Visualized Experiments, 2017, , . | 0.3 | 19 |
| 61 | Outcome of medial hamstring lengthening in children with spastic paresis: A biomechanical and morphological observational study. PLoS ONE, 2018, 13, e0192573. | 2.5 | 19 |
| 62 | Anthropometric Clusters of Competitive Cyclists and Their Sprint and Endurance Performance. Frontiers in Physiology, 2019, 10, 1276. | 2.8 | 19 |
| 63 | A critical role for myoglobin in zebrafish development. International Journal of Developmental Biology, 2009, 53, 517-524. | 0.6 | 18 |
| 64 | Physicochemical Niche Conditions and Mechanosensing by Osteocytes and Myocytes. Current Osteoporosis Reports, 2019, 17, 235-249. | 3.6 | 17 |
| 65 | Does a Hypertrophying Muscle Fibre Reprogramme its Metabolism Similar to a Cancer Cell?. Sports Medicine, 2022, 52, 2569-2578. | 6.5 | 17 |
| 66 | Splint: the efficacy of orthotic management in rest to prevent equinus in children with cerebral palsy, a randomised controlled trial. BMC Pediatrics, 2012, 12, 38. | 1.7 | 16 |
| 67 | Shear Stress Modulates Osteoblast Cell and Nucleus Morphology and Volume. International Journal of Molecular Sciences, 2020, 21, 8361. | 4.1 | 15 |
| 68 | Fibrodysplasia Ossificans Progressiva: What Have We Achieved and Where Are We Now? Follow-up to the 2015 Lorentz Workshop. Frontiers in Endocrinology, 2021, 12, 732728. | 3.5 | 15 |
| 69 | Healing of the aponeurosis during recovery from aponeurotomy: Morphological and histological adaptation and related changes in mechanical properties. Journal of Orthopaedic Research, 2005, 23, 266-273. | 2.3 | 14 |
| 70 | Musculoskeletal growth in the upper arm in infants after obstetric brachial plexus lesions and its relation with residual muscle function. Developmental Medicine and Child Neurology, 2012, 54, 1050-1056. | 2.1 | 14 |
| 71 | IGF-1 Attenuates Hypoxia-Induced Atrophy but Inhibits Myoglobin Expression in C2C12 Skeletal Muscle Myotubes. International Journal of Molecular Sciences, 2017, 18, 1889. | 4.1 | 14 |
| 72 | Effects of strain on contractile force and number of sarcomeres in series of Xenopus laevis single muscle fibres during long-term culture. Journal of Muscle Research and Cell Motility, 2004, 25, 285-296. | 2.0 | 13 |

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|---|---|---|---|
| 73 | Myofiber stretch induces tensile and shear deformation of muscle stem cells in their native niche. Biophysical Journal, 2021, 120, 2665-2678. | 0.5 | 13 |
| 74 | Attenuated Increase in Maximal Force of Rat Medial Gastrocnemius Muscle after Concurrent Peak Power and Endurance Training. BioMed Research International, 2013, 2013, 1-9. | 1.9 | 12 |
| 75 | Muscle contractile properties as an explanation of the higher mean power output in marmosets than humans during jumping. Journal of Experimental Biology, 2015, 218, 2166-73. | 1.7 | 12 |
| 76 | Salivary Histatin 1 and 2 Are Targeted to Mitochondria and Endoplasmic Reticulum in Human Cells. Cells, 2020, 9, 795. | 4.1 | 11 |
| 77 | Synergistic short-term and long-term effects of TGF-Î²1 and 3 on collagen production in differentiating myoblasts. Biochemical and Biophysical Research Communications, 2021, 547, 176-182. | 2.1 | 11 |
| 78 | Effects of alfacalcidol on circulating cytokines and growth factors in rat skeletal muscle. Journal of Physiological Sciences, 2011, 61, 525-35. | 2.1 | 10 |
| 79 | Comparison of the validity of Hill and Huxley muscle tendon complex models using experimental data obtained from rat m. soleus in situ. Journal of Experimental Biology, 2016, 219, 977-87. | 1.7 | 9 |
| 80 | Measuring wearing time of knee-ankle-foot orthoses in children with cerebral palsy: comparison of parent-report and objective measurement. Disability and Rehabilitation, 2018, 40, 398-403. | 1.8 | 9 |
| 81 | Foot flexibility confounds the assessment of triceps surae extensibility in children with spastic paresis during typical physical examinations. Journal of Biomechanics, 2020, 99, 109532. | 2.1 | 9 |
| 82 | Lack of Tgfbr1 and Acvr1b synergistically stimulates myofibre hypertrophy and accelerates muscle regeneration. ELife, 2022, 11, . | 6.0 | 9 |
| 83 | Effects of Acute and Chronic Resistance Exercise on the Skeletal Muscle Metabolome. Metabolites, 2022, 12, 445. | 2.9 | 9 |
| 84 | Muscle-Type Specific Autophosphorylation of CaMKII Isoforms after Paced Contractions. BioMed Research International, 2014, 2014, 1-20. | 1.9 | 8 |
| 85 | Biochemical Interaction Between Muscle and Bone: A Physiological Reality?. Clinical Reviews in Bone and Mineral Metabolism, 2014, 12, 27-43. | 0.8 | 8 |
| 86 | Assessment of net knee moment-angle characteristics by instrumented hand-held dynamometry in children with spastic cerebral palsy and typically developing children. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 67. | 4.6 | 8 |
| 87 | Decrease in ankleâ€“foot dorsiflexion range of motion is related to increased knee flexion during gait in children with spastic cerebral palsy. Journal of Electromyography and Kinesiology, 2015, 25, 339-346. | 1.7 | 8 |
| 88 | Metabolic Cost of Activation and Mechanical Efficiency of Mouse Soleus Muscle Fiber Bundles During Repetitive Concentric and Eccentric Contractions. Frontiers in Physiology, 2019, 10, 760. | 2.8 | 8 |
| 89 | Reduced growth rate of aged muscle stem cells is associated with impaired mechanosensitivity. Aging, 2022, 14, 28-53. | 3.1 | 8 |
| 90 | Effects of Concurrent Training on Oxidative Capacity in Rat Gastrocnemius Muscle. Medicine and Science in Sports and Exercise, 2013, 45, 1674-1683. | 0.4 | 7 |

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| 91 | Regulation of myoglobin in hypertrophied rat cardiomyocytes in experimental pulmonary hypertension. Pflugers Archiv European Journal of Physiology, 2016, 468, 1697-1707. | 2.8 | 7 |
| 92 | Gastrocnemius Medialis Muscle Geometry and Extensibility in Typically Developing Children and Children With Spastic Paresis Aged 6â€“13 Years. Frontiers in Physiology, 2020, 11, 528522. | 2.8 | 7 |
| 93 | Mechanical output in jumps of marmosets (Callithrix jacchus). Journal of Experimental Biology, 2014, 217, 482-8. | 1.7 | 6 |
| 94 | Effects of different training modalities on phosphate homeostasis and local vitamin D metabolism in rat bone. PeerJ, 2019, 7, e6184. | 2.0 | 6 |
| 95 | Training-Induced Muscle Adaptations During Competitive Preparation in Elite Female Rowers. Frontiers in Sports and Active Living, 2021, 3, 781942. | 1.8 | 6 |
| 96 | Effect of vasti morphology on peak sprint cycling power of a human musculoskeletal simulation model. Journal of Applied Physiology, 2020, 128, 445-455. | 2.5 | 5 |
| 97 | RGDâ€functionalized supported lipid bilayers modulate preâ€osteoblast adherence and promote osteogenic differentiation. Journal of Biomedical Materials Research - Part A, 2020, 108, 923-937. | 4.0 | 5 |
| 98 | Pulsating fluid flow affects preâ€osteoblast behavior and osteogenic differentiation through production of soluble factors. Physiological Reports, 2021, 9, e14917. | 1.7 | 5 |
| 99 | Commentary: Validation of a Ramp Running Protocol for Determination of the True VO2max in Mice. Frontiers in Physiology, 2017, 8, 330. | 2.8 | 3 |
| 100 | Commentaries on Viewpoint: V̇‡<scp>o</scp><sub>2peak</sub> is an acceptable estimate of cardiorespiratory fitness but not V̇‡<scp>o</scp><sub>2max</sub>. Journal of Applied Physiology, 2018, 125, 966-967. | 2.5 | 3 |
| 101 | Notoginsenoside R1 Promotes Migration, Adhesin, Spreading, and Osteogenic Differentiation of Human Adipose Tissue-Derived Mesenchymal Stromal Cells. Molecules, 2022, 27, 3403. | 3.8 | 3 |
| 102 | Comprehensive evaluation of gait, spasticity, and muscle morphology: A case report of a child with spastic paresis treated with Botulinum NeuroToxinâ€A, serial casting, and physiotherapy. Clinical Case Reports (discontinued), 2019, 7, 1637-1646. | 0.5 | 2 |
| 103 | Systematic Review of Lumbar Elastic Tape on Trunk Mobility: A Debatable Issue. Archives of Rehabilitation Research and Clinical Translation, 2021, 3, 100131. | 0.9 | 2 |
| 104 | Remodeling of Rat M. Gastrocnemius Medialis During Recovery From Aponeurotomy. Frontiers in Physiology, 2020, 11, 541302. | 2.8 | 2 |
| 105 | Glycine receptor subunit-Î²-deficiency in a mouse model of spasticity results in attenuated physical performance, growth, and muscle strength. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R368-R388. | 1.8 | 2 |
| 106 | Fluid shear stress-induced mechanotransduction in myoblasts: Does it depend on the glycocalyx?. Experimental Cell Research, 2022, 417, 113204. | 2.6 | 2 |
| 107 | MUSCLE ACTIVATION PATTERNS IN SQUAT JUMPS FROM DIFFERENT INITIAL POSITIONS. Journal of Biomechanics, 2007, 40, S300. | 2.1 | 1 |
| 108 | Muscle Volume Is A Critical Determinant Of Rowing Performance In Olympic Rowers. Medicine and Science in Sports and Exercise, 2017, 49, 768-769. | 0.4 | 1 |

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|---|---|---|---|
| 109 | Stiff matrices enhance myoblast proliferation, reduce differentiation, and alter the response to fluid shear stress in vitro. Cell Biochemistry and Biophysics, 2022, 80, 161. | 1.8 | 1 |
| 110 | Muscle physiology: move to translation. Journal of Muscle Research and Cell Motility, 2014, 35, 1-2. | 2.0 | 0 |
| 111 | Reply to Gifford et al.: Symmorphosis in chronic heart failure patients?. Journal of Applied Physiology, 2016, 121, 1040-1040. | 2.5 | 0 |
| 112 | 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. Gait and Posture, 2017, 57, 110-111. | 1.4 | 0 |
| 113 | Effects of Botulinum Toxin-A and casting treatment on assessed spasticity, muscle morphology and gait kinematics in spastic paresis. Gait and Posture, 2017, 57, 104-105. | 1.4 | 0 |
| 114 | Changes in inflammation and musculoskeletal tissue-derived biomarker serum levels in response to high- and low-intensity resistance training in individuals with knee osteoarthritis. Osteoarthritis and Cartilage, 2020, 28, S336-S337. | 1.3 | 0 |
| 115 | IGF1 stimulates protein synthesis by enhancing mRNA translation rate in osteoblasts. Bone Abstracts, 0, , . | 0.0 | 0 |
| 116 | Local administration of low doses of exogenous BMP2 and leptin promotes ectopic bone regeneration in leptin-deficient mice. Bio-Medical Materials and Engineering, 2022, , 1-11. | 0.6 | 0 |
| 117 | The relationship between quantitative magnetic resonance imaging of the ankle plantar flexors, muscle function during walking and maximal strength in people with neuromuscular diseases. Clinical Biomechanics, 2022, 94, 105609. | 1.2 | 0 |