

J Rittweger

List of Publications by Year in descending order

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Version: 2024-02-01

251
papers

10,678
citations

36203

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h-index

45213

90
g-index

264
all docs

264
docs citations

264
times ranked

8766
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Age-Related Declines in Lower Limb Muscle Function are Similar in Power and Endurance Athletes of Both Sexes: A Longitudinal Study of Master Athletes. <i>Calcified Tissue International</i> , 2022, 110, 196-203. | 1.5 | 4 |
| 2 | Dissociation of Bone Resorption and Formation in Spaceflight and Simulated Microgravity: Potential Role of Myokines and Osteokines?. <i>Biomedicines</i> , 2022, 10, 342. | 1.4 | 14 |
| 3 | Effects of non-supervised exercise interventions on bone mineral density in adult women: a systematic review and meta-analysis. <i>Osteoporosis International</i> , 2022, 33, 1415-1427. | 1.3 | 7 |
| 4 | Assessing Cognitive Capacity by P3 During a Complex Manual Control Task. <i>Journal of Psychophysiology</i> , 2021, 35, 43-50. | 0.3 | 1 |
| 5 | Life Satisfaction, Positive Affect, and Sleep Impairment in Masters Athletes: Modulation by Age, Sex, and Exercise Type. <i>Frontiers in Physiology</i> , 2021, 12, 634433. | 1.3 | 3 |
| 6 | Resting Energy Expenditure of Master Athletes: Accuracy of Predictive Equations and Primary Determinants. <i>Frontiers in Physiology</i> , 2021, 12, 641455. | 1.3 | 12 |
| 7 | Left Ventricular Dimensions and Diastolic Function Are Different in Throwers, Endurance Athletes, and Sprinters From the World Masters Athletics Championships. <i>Frontiers in Physiology</i> , 2021, 12, 643764. | 1.3 | 1 |
| 8 | Age-Related Decline in Vertical Jumping Performance in Masters Track and Field Athletes: Concomitant Influence of Body Composition. <i>Frontiers in Physiology</i> , 2021, 12, 643649. | 1.3 | 17 |
| 9 | Nutrition for Older Athletes: Focus on Sex-Differences. <i>Nutrients</i> , 2021, 13, 1409. | 1.7 | 9 |
| 10 | Influence of simulated hypogravity on oxygen uptake during treadmill running. <i>Physiological Reports</i> , 2021, 9, e14787. | 0.7 | 2 |
| 11 | Regular Strength and Sprint Training Counteracts Bone Aging: A 10-Year Follow-Up in Male Masters Athletes. <i>JBMR Plus</i> , 2021, 5, e10513. | 1.3 | 7 |
| 12 | Contractile behavior of the gastrocnemius medialis muscle during running in simulated hypogravity. <i>Npj Microgravity</i> , 2021, 7, 32. | 1.9 | 3 |
| 13 | Effects of long-term immobilisation on endomysium of the soleus muscle in humans. <i>Experimental Physiology</i> , 2021, 106, 2038-2045. | 0.9 | 6 |
| 14 | Effects of Six-Week Resistance Training with or without Vibration on Metabolic Markers of Bone Metabolism. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9860. | 1.2 | 1 |
| 15 | Reporting Guidelines for Whole-Body Vibration Studies in Humans, Animals and Cell Cultures: A Consensus Statement from an International Group of Experts. <i>Biology</i> , 2021, 10, 965. | 1.3 | 62 |
| 16 | Gastrocnemius medialis contractile behavior during running differs between simulated Lunar and Martian gravities. <i>Scientific Reports</i> , 2021, 11, 22555. | 1.6 | 6 |
| 17 | Effect of novel short-arm human centrifugation-induced gravitational gradients upon cardiovascular responses, cerebral perfusion and tolerance. <i>Journal of Physiology</i> , 2020, 598, 4237-4249. | 1.3 | 11 |
| 18 | Virtual reality as training aid for manual spacecraft docking. <i>Acta Astronautica</i> , 2020, 177, 731-736. | 1.7 | 10 |

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|----|--|-----|-----------|
| 19 | Towards reporting guidelines of research using whole-body vibration as training or treatment regimen in human subjectsâ€”A Delphi consensus study. PLoS ONE, 2020, 15, e0235905. | 1.1 | 43 |
| 20 | Enhanced Blood Supply Through Lower Body Negative Pressure During Slow-Paced, High Load Leg Press Exercise Alters the Response of Muscle AMPK and Circulating Angiogenic Factors. Frontiers in Physiology, 2020, 11, 781. | 1.3 | 5 |
| 21 | Absence of an agingâ€”related increase in fiber type grouping in athletes and nonâ€”athletes. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 2057-2069. | 1.3 | 15 |
| 22 | Systems View of Deconditioning During Spaceflight Simulation in the PlanHab Project: The Departure of Urine 1 H-NMR Metabolomes From Healthy State in Young Males Subjected to Bedrest Inactivity and Hypoxia. Frontiers in Physiology, 2020, 11, 532271. | 1.3 | 9 |
| 23 | Potential Application of Whole Body Vibration Exercise for Improving the Clinical Conditions of COVID-19 Infected Individuals: A Narrative Review from the World Association of Vibration Exercise Experts (WAVex) Panel. International Journal of Environmental Research and Public Health, 2020, 17, 3650. | 1.2 | 30 |
| 24 | Greater maintenance of bone mineral content in male than female athletes and in sprinting and jumping than endurance athletes: a longitudinal study of bone strength in elite masters athletes. Archives of Osteoporosis, 2020, 15, 87. | 1.0 | 11 |
| 25 | Femoral anteversion: significance and measurement. Journal of Anatomy, 2020, 237, 811-826. | 0.9 | 64 |
| 26 | Adenosine/A2B Receptor Signaling Ameliorates the Effects of Aging and Counteracts Obesity. Cell Metabolism, 2020, 32, 56-70.e7. | 7.2 | 77 |
| 27 | Gastrocnemius Medialis Contractile Behavior Is Preserved During 30% Body Weight Supported Gait Training. Frontiers in Sports and Active Living, 2020, 2, 614559. | 0.9 | 3 |
| 28 | Cyclic Damage Accumulation in the Femoral Constructs Made With Cephalomedullary Nails. Frontiers in Bioengineering and Biotechnology, 2020, 8, 593609. | 2.0 | 4 |
| 29 | Accelerometric Gait Analysis Devices in Childrenâ€”Will They Accept Them? Results From the AVAPed Study. Frontiers in Pediatrics, 2020, 8, 574443. | 0.9 | 3 |
| 30 | Age- and Sex-Differences in Cardiac Characteristics Determined by Echocardiography in Masters Athletes. Frontiers in Physiology, 2020, 11, 630148. | 1.3 | 13 |
| 31 | Disuse Impairs the Mechanical Competence of Bone by Regulating the Characterizations of Mineralized Collagen Fibrils in Cortical Bone. Frontiers in Physiology, 2019, 10, 775. | 1.3 | 8 |
| 32 | The LunHab project: Muscle and bone alterations in male participants following a 10â€”day lunar habitat simulation. Experimental Physiology, 2019, 104, 1250-1261. | 0.9 | 18 |
| 33 | Search for Blood Proteome Proteins Involved in the Regulation of Bone Remodeling in Astronauts. Human Physiology, 2019, 45, 536-542. | 0.1 | 1 |
| 34 | An Observational Cerebral Magnetic Resonance Imaging Study Following 7 Days at 4554â€”m. High Altitude Medicine and Biology, 2019, 20, 407-416. | 0.5 | 6 |
| 35 | Operational and Experimental Tasks, Performance, and Voice in Space. Aerospace Medicine and Human Performance, 2019, 90, 624-631. | 0.2 | 3 |
| 36 | Mitochondrial Adaptations in Elderly and Young Men Skeletal Muscle Following 2 Weeks of Bed Rest and Rehabilitation. Frontiers in Physiology, 2019, 10, 474. | 1.3 | 35 |

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|----|--|-----|-----------|
| 37 | Sleep Is Compromised in $\sim 12^\circ$ Head Down Tilt Position. <i>Frontiers in Physiology</i> , 2019, 10, 397. | 1.3 | 6 |
| 38 | Calcium Isotopes in Human Urine as a Diagnostic Tool for Bone Loss: Additional Evidence for Time Delays in Bone Response to Experimental Bed Rest. <i>Frontiers in Physiology</i> , 2019, 10, 12. | 1.3 | 21 |
| 39 | Hopping in hypogravity—A rationale for a plyometric exercise countermeasure in planetary exploration missions. <i>PLoS ONE</i> , 2019, 14, e0211263. | 1.1 | 26 |
| 40 | Galanin and Adrenomedullin Plasma Responses During Artificial Gravity on a Human Short-Arm Centrifuge. <i>Frontiers in Physiology</i> , 2019, 9, 1956. | 1.3 | 4 |
| 41 | The Importance of Impact Loading and the Stretch Shortening Cycle for Spaceflight Countermeasures. <i>Frontiers in Physiology</i> , 2019, 10, 311. | 1.3 | 27 |
| 42 | Lower body negative pressure enhances oxygen availability in the knee extensor muscles during intense resistive exercise in supine position. <i>European Journal of Applied Physiology</i> , 2019, 119, 1289-1303. | 1.2 | 7 |
| 43 | Similar relative decline in aerobic and anaerobic power with age in endurance and power master athletes of both sexes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 791-799. | 1.3 | 25 |
| 44 | Tensiomyography detects early hallmarks of bed-rest-induced atrophy before changes in muscle architecture. <i>Journal of Applied Physiology</i> , 2019, 126, 815-822. | 1.2 | 48 |
| 45 | Aging and Physiological Lessons from Master Athletes. , 2019, 10, 261-296. | | 38 |
| 46 | Differences in the Cortical Structure of the Whole Fibula and Tibia Between Long-Distance Runners and Untrained Controls. Toward a Wider Conception of the Biomechanical Regulation of Cortical Bone Structure. <i>Frontiers in Endocrinology</i> , 2019, 10, 833. | 1.5 | 8 |
| 47 | Recovery from 6-month spaceflight at the International Space Station: muscle-related stress into a proinflammatory setting. <i>FASEB Journal</i> , 2019, 33, 5168-5180. | 0.2 | 25 |
| 48 | Reactive Jumps Preserve Skeletal Muscle Structure, Phenotype, and Myofiber Oxidative Capacity in Bed Rest. <i>Frontiers in Physiology</i> , 2019, 10, 1527. | 1.3 | 15 |
| 49 | Sarcolab-3: Changes In Knee Flexor And Extensor Torque Generation During A Six-month Space Flight Mission. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 407-407. | 0.2 | 0 |
| 50 | PlanHab [*] : hypoxia does not worsen the impairment of skeletal muscle oxidative function induced by bed rest alone. <i>Journal of Physiology</i> , 2018, 596, 3341-3355. | 1.3 | 36 |
| 51 | Age-Related Slowing of Contractile Properties Differs Between Power, Endurance, and Nonathletes: A Tensiomyographic Assessment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1602-1608. | 1.7 | 32 |
| 52 | Deformation regimes of collagen fibrils in cortical bone revealed by in situ morphology and elastic modulus observations under mechanical loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 115-121. | 1.5 | 13 |
| 53 | Loss of maximal explosive power of lower limbs after 2 weeks of disuse and incomplete recovery after retraining in older adults. <i>Journal of Physiology</i> , 2018, 596, 647-665. | 1.3 | 43 |
| 54 | Modeling regulation of vascular tone following muscle contraction: Model development, validation and global sensitivity analysis. <i>Journal of Computational Science</i> , 2018, 24, 143-159. | 1.5 | 4 |

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|----|--|-----|-----------|
| 55 | Fibula: The Forgotten Bone—May It Provide Some Insight On a Wider Scope for Bone Mechanostat Control?. <i>Current Osteoporosis Reports</i> , 2018, 16, 775-778. | 1.5 | 5 |
| 56 | A Comparison of Squatting Exercise on a Centrifuge and With Earth Gravity. <i>Frontiers in Physiology</i> , 2018, 9, 1759. | 1.3 | 12 |
| 57 | Sarcolab pilot study into skeletal muscle's adaptation to long-term spaceflight. <i>Npj Microgravity</i> , 2018, 4, 18. | 1.9 | 62 |
| 58 | Effects of 12° head-down tilt with and without elevated levels of CO ₂ on cognitive performance: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2018, 124, 750-760. | 1.2 | 25 |
| 59 | Hypoxia Aggravates Inactivity-Related Muscle Wasting. <i>Frontiers in Physiology</i> , 2018, 9, 494. | 1.3 | 32 |
| 60 | Master athletes have higher miR-7, SIRT3 and SOD2 expression in skeletal muscle than age-matched sedentary controls. <i>Redox Biology</i> , 2018, 19, 46-51. | 3.9 | 44 |
| 61 | Effects of 14 days of bed rest and following physical training on metabolic cost, mechanical work, and efficiency during walking in older and young healthy males. <i>PLoS ONE</i> , 2018, 13, e0194291. | 1.1 | 13 |
| 62 | Quantitative MRI volumetry, diffusivity, cerebrovascular flow, and cranial hydrodynamics during head-down tilt and hypercapnia: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2017, 122, 1155-1166. | 1.2 | 24 |
| 63 | Later Age at Onset of Independent Walking Is Associated With Lower Bone Strength at Fracture-Prone Sites in Older Men. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1209-1217. | 3.1 | 17 |
| 64 | An international collaboration studying the physiological and anatomical cerebral effects of carbon dioxide during head-down tilt bed rest: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2017, 122, 1398-1405. | 1.2 | 18 |
| 65 | Atrophy of calf muscles by unloading results in an increase of tissue sodium concentration and fat fraction decrease: a ²³ Na MRI physiology study. <i>European Journal of Applied Physiology</i> , 2017, 117, 1585-1595. | 1.2 | 10 |
| 66 | Intracranial and Intraocular Pressure During Various Degrees of Head-Down Tilt. <i>Aerospace Medicine and Human Performance</i> , 2017, 88, 10-16. | 0.2 | 44 |
| 67 | Vibration-related extrusion of capillary blood from the calf musculature depends upon directions of vibration of the leg and of the gravity vector. <i>European Journal of Applied Physiology</i> , 2017, 117, 1107-1117. | 1.2 | 8 |
| 68 | The functional muscle-bone unit in children with cerebral palsy. <i>Osteoporosis International</i> , 2017, 28, 2081-2093. | 1.3 | 17 |
| 69 | Towards human exploration of space: the THESEUS review series on muscle and bone research priorities. <i>Npj Microgravity</i> , 2017, 3, 8. | 1.9 | 106 |
| 70 | MRI-derived diffusion parameters in the human optic nerve and its surrounding sheath during head-down tilt. <i>Npj Microgravity</i> , 2017, 3, 18. | 1.9 | 13 |
| 71 | Meagre effects of disuse on the human fibula are not explained by bone size or geometry. <i>Osteoporosis International</i> , 2017, 28, 633-641. | 1.3 | 10 |
| 72 | Anabolic resistance assessed by oral stable isotope ingestion following bed rest in young and older adult volunteers: Relationships with changes in muscle mass. <i>Clinical Nutrition</i> , 2017, 36, 1420-1426. | 2.3 | 31 |

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|----|---|-----|-----------|
| 73 | Short-Term Effects of Lupin vs. Whey Supplementation on Glucose and Insulin Responses to a Standardized Meal in a Randomized Cross-Over Trial. <i>Frontiers in Physiology</i> , 2017, 8, 198. | 1.3 | 12 |
| 74 | The Metabolic Response of Skeletal Muscle to Endurance Exercise Is Modified by the ACE-I/D Gene Polymorphism and Training State. <i>Frontiers in Physiology</i> , 2017, 8, 993. | 1.3 | 31 |
| 75 | Lower body negative pressure reduces optic nerve sheath diameter during head-down tilt. <i>Journal of Applied Physiology</i> , 2017, 123, 1139-1144. | 1.2 | 27 |
| 76 | Psychophysiological Assessment in Pilots Performing Challenging Simulated and Real Flight Maneuvers. <i>Aerospace Medicine and Human Performance</i> , 2017, 88, 834-840. | 0.2 | 8 |
| 77 | Using the Hephaistos orthotic device to study countermeasure effectiveness of neuromuscular electrical stimulation and dietary lupin protein supplementation, a randomised controlled trial. <i>PLoS ONE</i> , 2017, 12, e0171562. | 1.1 | 6 |
| 78 | Design, Development and Validation of an Artificial Muscle Biomechanical Rig (AMBR) for Finite Element Model Validation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 319-327. | 0.3 | 0 |
| 79 | Markers of bone metabolism during 14 days of bed rest in young and older men. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2017, 17, 399-408. | 0.1 | 16 |
| 80 | Changes in muscle cross-sectional area, muscle force, and jump performance during 6 weeks of progressive whole-body vibration combined with progressive, high intensity resistance training. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2017, 17, 38-49. | 0.1 | 13 |
| 81 | A novel interpolation approach for the generation of 3D-geometric digital bone models from image stacks. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2017, 17, 86-96. | 0.1 | 2 |
| 82 | T2-relaxation time increases in lumbar intervertebral discs after 21d head-down tilt bed-rest. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2017, 17, 140-145. | 0.1 | 1 |
| 83 | Greater loss in muscle mass and function but smaller metabolic alterations in older compared with younger men following 2 wk of bed rest and recovery. <i>Journal of Applied Physiology</i> , 2016, 120, 922-929. | 1.2 | 114 |
| 84 | Response to the comments "Do Maximal aerobic and anaerobic capacity start really to decrease after the fourth decade of life?" written by F Borrani, G Millet to the paper "Maximal aerobic power and anaerobic capacity in cycling across the age spectrum in male master athletes". <i>European Journal of Applied Physiology</i> , 2016, 116, 2425-2426. | 1.2 | 0 |
| 85 | Whey protein with potassium bicarbonate supplement attenuates the reduction in muscle oxidative capacity during 19 days of bed rest. <i>Journal of Applied Physiology</i> , 2016, 121, 838-848. | 1.2 | 33 |
| 86 | Global sensitivity analysis of a model for venous valve dynamics. <i>Journal of Biomechanics</i> , 2016, 49, 2845-2853. | 0.9 | 5 |
| 87 | On the combined effects of normobaric hypoxia and bed rest upon bone and mineral metabolism: Results from the PlanHab study. <i>Bone</i> , 2016, 91, 130-138. | 1.4 | 33 |
| 88 | Structural differences in cortical shell properties between upper and lower human fibula as described by pQCT serial scans. A biomechanical interpretation. <i>Bone</i> , 2016, 90, 185-194. | 1.4 | 15 |
| 89 | Effects of short-term exposure to head-down tilt on cerebral hemodynamics: a prospective evaluation of a spaceflight analog using phase-contrast MRI. <i>Journal of Applied Physiology</i> , 2016, 120, 1466-1473. | 1.2 | 48 |
| 90 | Serum sclerostin and DKK1 in relation to exercise against bone loss in experimental bed rest. <i>Journal of Bone and Mineral Metabolism</i> , 2016, 34, 354-365. | 1.3 | 38 |

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|-----|---|-----|-----------|
| 91 | Centrifugation as a countermeasure during bed rest and dry immersion: What has been learned?. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2016, 16, 84-91. | 0.1 | 12 |
| 92 | Single muscle fibre contractile properties differ between bodybuilders, power athletes and control subjects. <i>Experimental Physiology</i> , 2015, 100, 1331-1341. | 0.9 | 37 |
| 93 | A 1D pulse wave propagation model of the hemodynamics of calf muscle pump function. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02716. | 1.0 | 21 |
| 94 | Collagen Type III and VI Turnover in Response to Long-Term Immobilization. <i>PLoS ONE</i> , 2015, 10, e0144525. | 1.1 | 91 |
| 95 | Musculoskeletal effects of 5 days of bed rest with and without locomotion replacement training. <i>European Journal of Applied Physiology</i> , 2015, 115, 727-738. | 1.2 | 36 |
| 96 | CORRIGENDA. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 3219-3219. | 1.8 | 16 |
| 97 | Short-arm centrifugation as a partially effective musculoskeletal countermeasure during 5-day head-down tilt bed rest results from the BRAG1 study. <i>European Journal of Applied Physiology</i> , 2015, 115, 1233-1244. | 1.2 | 33 |
| 98 | Tennis Service Stroke Benefits Humerus Bone: Is Torsion the Cause?. <i>Calcified Tissue International</i> , 2015, 97, 193-198. | 1.5 | 14 |
| 99 | Greater tibial bone strength in male tennis players than controls in the absence of greater muscle output. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 142-151. | 1.9 | 8 |
| 100 | Muscular forces affect the glycosaminoglycan content of joint cartilage. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 86, 388-392. | 1.2 | 7 |
| 101 | On the relationship between tibia torsional deformation and regional muscle contractions in habitual human exercises in vivo. <i>Journal of Biomechanics</i> , 2015, 48, 456-464. | 0.9 | 26 |
| 102 | Effects of an artificial gravity countermeasure on orthostatic tolerance, blood volumes and aerobic power after short-term bed rest (BR-AG1). <i>Journal of Applied Physiology</i> , 2015, 118, 29-35. | 1.2 | 47 |
| 103 | Changes in corticospinal transmission following 8 weeks of ankle joint immobilization. <i>Clinical Neurophysiology</i> , 2015, 126, 131-139. | 0.7 | 25 |
| 104 | Microcirculation of skeletal muscle adapts differently to a resistive exercise intervention with and without superimposed whole-body vibrations. <i>Clinical Physiology and Functional Imaging</i> , 2015, 35, 425-435. | 0.5 | 16 |
| 105 | Analysis of the independent power of age-related, anthropometric and mechanical factors as determinants of the structure of radius and tibia in normal adults. A pQCT study. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2015, 15, 10-22. | 0.1 | 8 |
| 106 | Effects of five days of bed rest with intermittent centrifugation on neurovestibular function. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2015, 15, 60-8. | 0.1 | 11 |
| 107 | Form follows function: a computational simulation exercise on bone shape forming and conservation. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2015, 15, 215-26. | 0.1 | 14 |
| 108 | Bone loss patterns in cortical, subcortical, and trabecular compartments during simulated microgravity. <i>Journal of Applied Physiology</i> , 2014, 117, 80-88. | 1.2 | 30 |

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|-----|---|-----|-----------|
| 109 | Physical Activity and Bone: May the Force be with You. <i>Frontiers in Endocrinology</i> , 2014, 5, 20. | 1.5 | 36 |
| 110 | The relationship between exercise-induced muscle fatigue, arterial blood flow and muscle perfusion after 56 days local muscle unloading. <i>Clinical Physiology and Functional Imaging</i> , 2014, 34, 218-229. | 0.5 | 15 |
| 111 | Thigh muscle volume in relation to age, sex and femur volume. <i>Age</i> , 2014, 36, 383-393. | 3.0 | 56 |
| 112 | The Influence of Muscular Action on Bone Strength Via Exercise. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014, 12, 93-102. | 1.3 | 15 |
| 113 | Effects of age and starting age upon side asymmetry in the arms of veteran tennis players: a cross-sectional study. <i>Osteoporosis International</i> , 2014, 25, 1389-1400. | 1.3 | 53 |
| 114 | In the unloaded lower leg, vibration extrudes venous blood out of the calf muscles probably by direct acceleration and without arterial vasodilation. <i>European Journal of Applied Physiology</i> , 2014, 114, 1005-1012. | 1.2 | 11 |
| 115 | Jump Power and Force Have Distinct Associations With Cortical Bone Parameters: Findings From a Population Enriched by Individuals With High Bone Mass. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 266-275. | 1.8 | 42 |
| 116 | Imaging of the Muscle-Bone Relationship. <i>Current Osteoporosis Reports</i> , 2014, 12, 486-495. | 1.5 | 8 |
| 117 | Measurement of a MMP-2 degraded Titin fragment in serum reflects changes in muscle turnover induced by atrophy. <i>Experimental Gerontology</i> , 2014, 58, 83-89. | 1.2 | 21 |
| 118 | Imaging Mechanical Muscle-Bone Relationships: How to See the Invisible. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014, 12, 66-76. | 1.3 | 2 |
| 119 | Time since onset of walking predicts tibial bone strength in early childhood. <i>Bone</i> , 2014, 68, 76-84. | 1.4 | 27 |
| 120 | Elevated serum soluble CD200 and CD200R as surrogate markers of bone loss under bed rest conditions. <i>Bone</i> , 2014, 60, 33-40. | 1.4 | 27 |
| 121 | In vivo application of an optical segment tracking approach for bone loading regimes recording in humans: A reliability study. <i>Medical Engineering and Physics</i> , 2014, 36, 1041-1046. | 0.8 | 4 |
| 122 | Torsion and Antero-Posterior Bending in the In Vivo Human Tibia Loading Regimes during Walking and Running. <i>PLoS ONE</i> , 2014, 9, e94525. | 1.1 | 94 |
| 123 | Assessment of Lumbar Intervertebral Disc Glycosaminoglycan Content by Gadolinium-Enhanced MRI before and after 21-Days of Head-Down-Tilt Bedrest. <i>PLoS ONE</i> , 2014, 9, e112104. | 1.1 | 8 |
| 124 | The pQCT 'Bone Strength Indices' (BSIs, SSI). Relative mechanical impact and diagnostic value of the indicators of bone tissue and design quality employed in their calculation in healthy men and pre- and post-menopausal women. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 29-40. | 0.1 | 14 |
| 125 | In vivo measurements of human bone deformation using optical segment tracking: surgical approach and validation in a three-point bending test. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 95-103. | 0.1 | 4 |
| 126 | Study protocol, implementation, and verification of a short versatile upright exercise regime during 5 days of bed rest. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 111-23. | 0.1 | 9 |

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|-----|---|-----|-----------|
| 127 | Impact of age, performance and athletic event on injury rates in master athletics - first results from an ongoing prospective study. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 148-54. | 0.1 | 16 |
| 128 | Reply to the letter to the editor by Liu and Li. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 245. | 0.1 | 0 |
| 129 | Effects of five days of bed rest with and without exercise countermeasure on postural stability and gait. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 359-66. | 0.1 | 22 |
| 130 | Whey protein plus bicarbonate supplement has little effects on structural atrophy and proteolysis marker immunopatterns in skeletal muscle disuse during 21 days of bed rest. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014, 14, 432-44. | 0.1 | 23 |
| 131 | Bone density and neuromuscular function in older competitive athletes depend on running distance. <i>Osteoporosis International</i> , 2013, 24, 2033-2042. | 1.3 | 18 |
| 132 | Relationship between ventilatory function and age in master athletes and a sedentary reference population. <i>Age</i> , 2013, 35, 1007-1015. | 3.0 | 39 |
| 133 | Costamere remodeling with muscle loading and unloading in healthy young men. <i>Journal of Anatomy</i> , 2013, 223, 525-536. | 0.9 | 44 |
| 134 | Vascular adaptations induced by 6 weeks WBV resistance exercise training. <i>Clinical Physiology and Functional Imaging</i> , 2013, 33, 92-100. | 0.5 | 14 |
| 135 | The high bone mass phenotype is characterised by a combined cortical and trabecular bone phenotype: Findings from a pQCT case-control study. <i>Bone</i> , 2013, 52, 380-388. | 1.4 | 22 |
| 136 | Diffusion Capacity of the Lung in Young and Old Endurance Athletes. <i>International Journal of Sports Medicine</i> , 2013, 34, 1051-1057. | 0.8 | 17 |
| 137 | Upper Limb Muscle Bone Asymmetries and Bone Adaptation in Elite Youth Tennis Players. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1749-1758. | 0.2 | 81 |
| 138 | Muscle X-ray attenuation is not decreased during experimental bed rest. <i>Muscle and Nerve</i> , 2013, 47, 722-730. | 1.0 | 17 |
| 139 | The specific role of gravitational accelerations for arterial adaptations. <i>Journal of Applied Physiology</i> , 2013, 114, 387-393. | 1.2 | 6 |
| 140 | Skeletal muscle oxidative function in vivo and ex vivo in athletes with marked hypertrophy from resistance training. <i>Journal of Applied Physiology</i> , 2013, 114, 1527-1535. | 1.2 | 56 |
| 141 | Whole-Body Vibrations Do Not Elevate the Angiogenic Stimulus when Applied during Resistance Exercise. <i>PLoS ONE</i> , 2013, 8, e80143. | 1.1 | 18 |
| 142 | Sclerostin and DKK1 levels during 14 and 21 days of bed rest in healthy young men. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2013, 13, 45-52. | 0.1 | 33 |
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