# William R Thompson

List of Publications by Year
in descending order



| 45 | 1,937 | 331670 21 | 265206 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 47 | 47 | 47 | 2619 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effects of Dietary Protein Source and Quantity on Bone Morphology and Body Composition Following a High-Protein Weight-Loss Diet in a Rat Model for Postmenopausal Obesity. Nutrients, 2022, 14, 2262. | 4.1 | 1 |
| 2 | Skeletal Functions of Voltage Sensitive Calcium Channels. Current Osteoporosis Reports, 2021, 19, 206-221. | 3.6 | 9 |
| 3 | Age and sex effects on FGF23-mediated response to mild phosphate challenge. Bone, 2021, 146, 115885. | 2.9 | 19 |
| 4 | Differential Iron Requirements for Osteoblast and Adipocyte Differentiation. JBMR Plus, 2021, 5, e10529. | 2.7 | 7 |
| 5 | Generation of two multipotent mesenchymal progenitor cell lines capable of osteogenic, mature osteocyte, adipogenic, and chondrogenic differentiation. Scientific Reports, 2021, 11, 22593. | 3.3 | 8 |
| 6 | Cells as Functional Load Sensors and Drivers of Adaptation. , 2020, , 79-98. | | 1 |
| 7 | The <scp>mTORC2</scp> Component Rictor Is Required for Loadâ€Induced Bone Formation in Lateâ€Stage Skeletal Cells. JBMR Plus, 2020, 4, e10366. | 2.7 | 10 |
| 8 | Mechanical stimulation of human dermal fibroblasts regulates pro-inflammatory cytokines: potential insight into soft tissue manual therapies. BMC Research Notes, 2020, 13, 400. | 1.4 | 8 |
| 9 | Mechanical suppression of breast cancer cell invasion and paracrine signaling to osteoclasts requires nucleo-cytoskeletal connectivity. Bone Research, 2020, 8, 40. | 11.4 | 16 |
| 10 | The HIF-PHI BAY 85-3934 (Molidustat) Improves Anemia and Is Associated With Reduced Levels of Circulating FGF23 in a CKD Mouse Model. Journal of Bone and Mineral Research, 2020, 36, 1117-1130. | 2.8 | 16 |
| 11 | Reproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluation. Genome Biology, 2019, 20, 171. | 8.8 | 69 |
| 12 | Bone biology. , 2019, , 15-52. | | 14 |
| 13 | Baseball and Softball Pitchers are Distinct Within-Subject Controlled Models for Exploring Proximal Femur Adaptation to Physical Activity. Calcified Tissue International, 2019, 104, 373-381. | 3.1 | 4 |
| 14 | Progress in the Full-Text Publication Rate of Orthopaedic and Sports Physical Therapy Abstracts Presented at the American Physical Therapy Association's Combined Sections Meeting. Journal of Orthopaedic and Sports Physical Therapy, 2018, 48, 44-49. | 3.5 | 4 |
| 15 | Inhibition of CaMKK2 Enhances Fracture Healing by Stimulating Indian Hedgehog Signaling and Accelerating Endochondral Ossification. Journal of Bone and Mineral Research, 2018, 33, 930-944. | 2.8 | 29 |
| 16 | LARG GEF and ARHGAP18 orchestrate RhoA activity to control mesenchymal stem cell lineage. Bone, 2018, 107, 172-180. | 2.9 | 31 |
| 17 | Physical Activity for Strengthening Fracture Prone Regions of the Proximal Femur. Current Osteoporosis Reports, 2017, 15, 43-52. | 3.6 | 23 |
| 18 | Progressive skeletal benefits of physical activity when young as assessed at the midshaft humerus in male baseball players. Osteoporosis International, 2017, 28, 2155-2165. | 3.1 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Become one with the force: optimising mechanotherapy through an understanding of mechanobiology. British Journal of Sports Medicine, 2017, 51, 989-990. | 6.7 | 16 |
| 20 | Concise Review: Plasma and Nuclear Membranes Convey Mechanical Information to Regulate Mesenchymal Stem Cell Lineage. Stem Cells, 2016, 34, 1455-1463. | 3.2 | 32 |
| 21 | Understanding Mechanobiology: Physical Therapists as a Force in Mechanotherapy and Musculoskeletal Regenerative Rehabilitation. Physical Therapy, 2016, 96, 560-569. | 2.4 | 72 |
| 22 | Osteocyte specific responses to soluble and mechanical stimuli in a stem cell derived culture model. Scientific Reports, 2015, 5, 11049. | 3.3 | 42 |
| 23 | The dependences of osteocyte network on bone compartment, age, and disease. Bone Research, 2015, 3, . | 11.4 | 84 |
| 24 | Intranuclear Actin Regulates Osteogenesis. Stem Cells, 2015, 33, 3065-3076. | 3.2 | 100 |
| 25 | Low-Magnitude, High-Frequency Vibration Fails to Accelerate Ligament Healing but Stimulates Collagen Synthesis in the Achilles Tendon. Orthopaedic Journal of Sports Medicine, 2015, 3, 232596711558578. | 1.7 | 16 |
| 26 | Experimental Integrative Muscular Movement Technique Enhances Cervical Range of Motion in Patients with Chronic Neck Pain: A Pilot Study. Journal of Alternative and Complementary Medicine, 2015, 21, 223-228. | 2.1 | 4 |
| 27 | Cell Mechanosensitivity to Extremely Low-Magnitude Signals Is Enabled by a LINCed Nucleus. Stem Cells, 2015, 33, 2063-2076. | 3.2 | 122 |
| 28 | Exercise Regulation of Marrow Fat in the Setting of PPARÎ³ Agonist Treatment in Female C57BL/6 Mice. Endocrinology, 2015, 156, 2753-2761. | 2.8 | 52 |
| 29 | Gap Junctional Communication in Osteocytes Is Amplified by Low Intensity Vibrations In Vitro. PLoS ONE, 2014, 9, e90840. | 2.5 | 49 |
| 30 | Vibration therapy. Current Opinion in Endocrinology, Diabetes and Obesity, 2014, 21, 447-453. | 2.3 | 54 |
| 31 | mTORC2 Regulates Mechanically Induced Cytoskeletal Reorganization and Lineage Selection in Marrow-Derived Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 2014, 29, 78-89. | 2.8 | 134 |
| 32 | Perlecan-Containing Pericellular Matrix Regulates Solute Transport and Mechanosensing Within the Osteocyte Lacunar-Canalicular System. Journal of Bone and Mineral Research, 2014, 29, 878-891. | 2.8 | 82 |
| 33 | Bone marrow fat accumulation accelerated by high fat diet is suppressed by exercise. Bone, 2014, 64, 39-46. | 2.9 | 124 |
| 34 | Mechanically activated fyn utilizes mTORC2 to regulate RhoA and adipogenesis in mesenchymal stem cells. Stem Cells, 2013, 31, 2528-2537. | 3.2 | 64 |
| 35 | Varying whole body vibration amplitude differentially affects tendon and ligament structural and material properties. Journal of Biomechanics, 2013, 46, 1496-1500. | 2.1 | 20 |
| 36 | Serum xylosyltransferase 1 level increases during early posttraumatic osteoarthritis in mice with high bone forming potential. Bone, 2012, 51, 224-231. | 2.9 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Mechanical regulation of signaling pathways in bone. Gene, 2012, 503, 179-193. | 2.2 | 334 |
| 38 | Mechanical Strain Downregulates C/EBPÎ² in MSC and Decreases Endoplasmic Reticulum Stress. PLoS ONE, 2012, 7, e51613. | 2.5 | 29 |
| 39 | Co-culture of osteocytes and neurons on a unique patterned surface. Biointerphases, 2011, 6, 200-209. | 1.6 | 7 |
| 40 | A Novel Massage Therapy Technique for Management of Chronic Cervical Pain: A Case Series. International Journal of Therapeutic Massage & Bodywork, 2011, 4, 1-7. | 0.2 | 5 |
| 41 | Perlecan/Hspg2 deficiency alters the pericellular space of the lacunocanalicular system surrounding osteocytic processes in cortical bone. Journal of Bone and Mineral Research, 2011, 26, 618-629. | 2.8 | 104 |
| 42 | Association of the Î±2Î´1 subunit with Cav3.2 enhances membrane expression and regulates mechanically induced ATP release in MLO-Y4 osteocytes. Journal of Bone and Mineral Research, 2011, 26, 2125-2139. | 2.8 | 71 |
| 43 | Effects of 1,25-Dihydroxyvitamin D 3 on Voltage-Sensitive Calcium Channels in Osteoblast Differentiation and Morphology. , 2011, , 457-467. | | 0 |
| 44 | Association of Genetic Factors With Selected Measures of Physical Performance. Physical Therapy, 2006, 86, 585-591. | 2.4 | 19 |
| 45 | Association of genetic factors with selected measures of physical performance. Physical Therapy, 2006, 86, 585-91. | 2.4 | 7 |