

Tishya A L Wren

List of Publications by Year in descending order

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94
papers

4,071
citations

168829

31
h-index

134545

62
g-index

97
all docs

97
docs citations

97
times ranked

4996
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mechanical properties of the human achilles tendon. <i>Clinical Biomechanics</i> , 2001, 16, 245-251. | 0.5 | 377 |
| 2 | Prevalence of Specific Gait Abnormalities in Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2005, 25, 79-83. | 0.6 | 313 |
| 3 | Low-Level, High-Frequency Mechanical Signals Enhance Musculoskeletal Development of Young Women With Low BMD. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1464-1474. | 3.1 | 299 |
| 4 | Efficacy of clinical gait analysis: A systematic review. <i>Gait and Posture</i> , 2011, 34, 149-153. | 0.6 | 240 |
| 5 | Effects of Creep and Cyclic Loading on the Mechanical Properties and Failure of Human Achilles Tendons. <i>Annals of Biomedical Engineering</i> , 2003, 31, 710-717. | 1.3 | 205 |
| 6 | Three-Point Technique of Fat Quantification of Muscle Tissue as a Marker of Disease Progression in Duchenne Muscular Dystrophy: Preliminary Study. <i>American Journal of Roentgenology</i> , 2008, 190, W8-W12. | 1.0 | 181 |
| 7 | The Determinants of Peak Bone Mass. <i>Journal of Pediatrics</i> , 2017, 180, 261-269. | 0.9 | 147 |
| 8 | Bone Marrow Fat Is Inversely Related to Cortical Bone in Young and Old Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 782-786. | 1.8 | 138 |
| 9 | Cross-correlation as a method for comparing dynamic electromyography signals during gait. <i>Journal of Biomechanics</i> , 2006, 39, 2714-2718. | 0.9 | 118 |
| 10 | Prevalence of specific gait abnormalities in children with cerebral palsy revisited: influence of age, prior surgery, and Gross Motor Function Classification System level. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 79-88. | 1.1 | 98 |
| 11 | Longitudinal Tracking of Dual-Energy X-ray Absorptiometry Bone Measures Over 6 Years in Children and Adolescents: Persistence of Low Bone Mass to Maturity. <i>Journal of Pediatrics</i> , 2014, 164, 1280-1285.e2. | 0.9 | 96 |
| 12 | Bone Densitometry in Pediatric Populations: Discrepancies in the Diagnosis of Osteoporosis by DXA and CT. <i>Journal of Pediatrics</i> , 2005, 146, 776-779. | 0.9 | 89 |
| 13 | Achilles Tendon Length and Medial Gastrocnemius Architecture in Children With Cerebral Palsy and Equinus Gait. <i>Journal of Pediatric Orthopaedics</i> , 2010, 30, 479-484. | 0.6 | 88 |
| 14 | Influence of gait analysis on decision-making for lower extremity orthopaedic surgery: Baseline data from a randomized controlled trial. <i>Gait and Posture</i> , 2011, 34, 364-369. | 0.6 | 83 |
| 15 | Effect of High-frequency, Low-magnitude Vibration on Bone and Muscle in Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2010, 30, 732-738. | 0.6 | 77 |
| 16 | Racial Disparity in Fracture Risk between White and Nonwhite Children in the United States. <i>Journal of Pediatrics</i> , 2012, 161, 1035-1040.e2. | 0.9 | 72 |
| 17 | Clinical efficacy of instrumented gait analysis: Systematic review 2020 update. <i>Gait and Posture</i> , 2020, 80, 274-279. | 0.6 | 66 |
| 18 | Outcomes of lower extremity orthopedic surgery in ambulatory children with cerebral palsy with and without gait analysis: Results of a randomized controlled trial. <i>Gait and Posture</i> , 2013, 38, 236-241. | 0.6 | 63 |

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|----|--|-----|-----------|
| 19 | Gastrocnemius and soleus lengths in cerebral palsy equinus gait—differences between children with and without static contracture and effects of gastrocnemius recession. <i>Journal of Biomechanics</i> , 2004, 37, 1321-1327. | 0.9 | 57 |
| 20 | Gillette Gait Index as a Gait Analysis Summary Measure. <i>Journal of Pediatric Orthopaedics</i> , 2007, 27, 765-768. | 0.6 | 54 |
| 21 | Hop Distance Symmetry Does Not Indicate Normal Landing Biomechanics in Adolescent Athletes With Recent Anterior Cruciate Ligament Reconstruction. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 622-629. | 1.7 | 54 |
| 22 | Quantitative CT Reference Values for Vertebral Trabecular Bone Density in Children and Young Adults. <i>Radiology</i> , 2009, 250, 222-227. | 3.6 | 48 |
| 23 | Impact of gait analysis on correction of excessive hip internal rotation in ambulatory children with cerebral palsy: a randomized controlled trial. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 919-925. | 1.1 | 48 |
| 24 | Reliability and Validity of Visual Assessments of Gait Using a Modified Physician Rating Scale for Crouch and Foot Contact. <i>Journal of Pediatric Orthopaedics</i> , 2005, 25, 646-650. | 0.6 | 47 |
| 25 | Use of a patella marker to improve tracking of dynamic hip rotation range of motion. <i>Gait and Posture</i> , 2008, 27, 530-534. | 0.6 | 46 |
| 26 | Changes in Pelvic Rotation After Soft Tissue and Bony Surgery in Ambulatory Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2004, 24, 278-282. | 0.6 | 45 |
| 27 | Effects of Preoperative Gait Analysis on Costs and Amount of Surgery. <i>Journal of Pediatric Orthopaedics</i> , 2009, 29, 558-563. | 0.6 | 44 |
| 28 | Limitations of Peripheral Quantitative Computed Tomography Metaphyseal Bone Density Measurements. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 4248-4253. | 1.8 | 43 |
| 29 | A model for loading-dependent growth, development, and adaptation of tendons and ligaments. <i>Journal of Biomechanics</i> , 1997, 31, 107-114. | 0.9 | 42 |
| 30 | Timing of Peak Bone Mass: Discrepancies between CT and DXA. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 938-941. | 1.8 | 41 |
| 31 | Repeat Hamstring Lengthening for Crouch Gait in Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2013, 33, 501-504. | 0.6 | 40 |
| 32 | A computational model for the adaptation of muscle and tendon length to average muscle length and minimum tendon strain. <i>Journal of Biomechanics</i> , 2003, 36, 1117-1124. | 0.9 | 30 |
| 33 | Comparison of 2 Orthotic Approaches in Children With Cerebral Palsy. <i>Pediatric Physical Therapy</i> , 2015, 27, 218-226. | 0.3 | 29 |
| 34 | Assessing bone mass in children and adolescents. <i>Current Osteoporosis Reports</i> , 2006, 4, 153-158. | 1.5 | 28 |
| 35 | Assessment of Bone Acquisition in Childhood and Adolescence. <i>Pediatrics</i> , 2007, 119, S145-S149. | 1.0 | 26 |
| 36 | Bone density and size in ambulatory children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 137-141. | 1.1 | 26 |

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|----|---|-----|-----------|
| 37 | Differences in implementation of gait analysis recommendations based on affiliation with a gait laboratory. <i>Gait and Posture</i> , 2013, 37, 206-209. | 0.6 | 24 |
| 38 | Comparison of drop jump landing biomechanics and asymmetry among adolescents with hamstring, patellar and quadriceps tendon autografts for anterior cruciate ligament reconstruction. <i>Knee</i> , 2018, 25, 1065-1073. | 0.8 | 24 |
| 39 | Increased Lumbar Lordosis and Smaller Vertebral Cross-Sectional Area Are Associated With Spondylolysis. <i>Spine</i> , 2018, 43, 833-838. | 1.0 | 23 |
| 40 | Concurrent and Discriminant Validity of Spanish Language Instruments for Measuring Functional Health Status. <i>Journal of Pediatric Orthopaedics</i> , 2008, 28, 199-212. | 0.6 | 22 |
| 41 | Predictors of outcome of distal rectus femoris transfer surgery in ambulatory children with cerebral palsy. <i>Journal of Pediatric Orthopaedics Part B</i> , 2009, 18, 58-62. | 0.3 | 22 |
| 42 | Long-term Ambulatory Change After Lower Extremity Orthopaedic Surgery in Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2015, 35, 285-289. | 0.6 | 20 |
| 43 | Long term functional outcomes after early childhood pollicization. <i>Journal of Hand Therapy</i> , 2015, 28, 158-166. | 0.7 | 19 |
| 44 | How closely do surgeons follow gait analysis recommendations and why?. <i>Journal of Pediatric Orthopaedics Part B</i> , 2005, 14, 202-205. | 0.3 | 18 |
| 45 | Fat distribution in children and adolescents with myelomeningocele. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 273-278. | 1.1 | 18 |
| 46 | Sexual Dimorphism and the Origins of Human Spinal Health. <i>Endocrine Reviews</i> , 2018, 39, 221-239. | 8.9 | 18 |
| 47 | Impact of gait analysis on pathology identification and surgical recommendations in children with spina bifida. <i>Gait and Posture</i> , 2019, 67, 128-132. | 0.6 | 18 |
| 48 | Agreement Among Three Instruments for Measuring Functional Health Status and Quality of Life in Pediatric Orthopaedics. <i>Journal of Pediatric Orthopaedics</i> , 2007, 27, 233-240. | 0.6 | 17 |
| 49 | Static and Dynamic Gait Parameters Before and After Multilevel Soft Tissue Surgery in Ambulating Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2010, 30, 174-179. | 0.6 | 17 |
| 50 | Percutaneous Hamstring Lengthening Surgery is as Effective as Open Lengthening in Children With Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2019, 39, 366-371. | 0.6 | 16 |
| 51 | Walking activity during daily living in children with myelomeningocele. <i>Disability and Rehabilitation</i> , 2017, 39, 1422-1427. | 0.9 | 14 |
| 52 | A comparison of three methods of measuring tibial torsion in children with myelomeningocele and normally developing children. <i>Clinical Anatomy</i> , 2017, 30, 1043-1048. | 1.5 | 14 |
| 53 | Improvements in landing biomechanics following anterior cruciate ligament reconstruction in adolescent athletes. <i>Sports Biomechanics</i> , 2020, 19, 738-749. | 0.8 | 14 |
| 54 | A randomized controlled trial testing an adherence-optimized Vitamin D regimen to mitigate bone change in adolescents being treated for acute lymphoblastic leukemia. <i>Leukemia and Lymphoma</i> , 2017, 58, 2370-2378. | 0.6 | 13 |

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|----|--|-----|-----------|
| 55 | Movement variability in pre-teen and teenage athletes performing sports related tasks. <i>Gait and Posture</i> , 2020, 80, 228-233. | 0.6 | 13 |
| 56 | Pre-operative hamstring length and velocity do not explain the reduced effectiveness of repeat hamstring lengthening in children with cerebral palsy and crouch gait. <i>Gait and Posture</i> , 2019, 68, 323-328. | 0.6 | 12 |
| 57 | Contribution of the Vertebral Posterior Elements in Anterior-Posterior DXA Spine Scans in Young Subjects. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1398-1403. | 3.1 | 11 |
| 58 | An approach for determining quantitative measures for bone volume and bone mass in the pediatric spina bifida population. <i>Clinical Biomechanics</i> , 2015, 30, 748-754. | 0.5 | 11 |
| 59 | Small vertebral cross-sectional area and tall intervertebral disc in adolescent idiopathic scoliosis. <i>Pediatric Radiology</i> , 2016, 46, 1424-1429. | 1.1 | 11 |
| 60 | Effect of Tibia Marker Placement on Kinematics in Pathological Gait. <i>Journal of Applied Biomechanics</i> , 2016, 32, 603-607. | 0.3 | 11 |
| 61 | Anterior distal femoral hemiepiphysiodesis with and without patellar tendon shortening for fixed knee flexion contractures in children with cerebral palsy. <i>Journal of Children's Orthopaedics</i> , 2020, 14, 415-420. | 0.4 | 11 |
| 62 | Development of Calcaneal Gait Without Prior Triceps Surae Lengthening: An Examination of Predictive Factors. <i>Journal of Pediatric Orthopaedics</i> , 2010, 30, 240-243. | 0.6 | 10 |
| 63 | Prior Treatment of Fracture Patients in a Tertiary Pediatric Emergency Department. <i>Journal of Pediatric Orthopaedics</i> , 2009, 29, 137-141. | 0.6 | 9 |
| 64 | Fasting serum blood measures of bone and lipid metabolism in children with myelomeningocele for early detection of cardiovascular and bone fragility risk factors. <i>Journal of Spinal Cord Medicine</i> , 2017, 40, 193-200. | 0.7 | 9 |
| 65 | Myosteatosi s in adolescents and young adults treated for acute lymphoblastic leukemia. <i>Leukemia and Lymphoma</i> , 2019, 60, 3146-3153. | 0.6 | 9 |
| 66 | Quantitative assessment of dynamic control of fingertip forces after pollicization. <i>Gait and Posture</i> , 2015, 41, 1-6. | 0.6 | 8 |
| 67 | Association Between Vertebral Cross-sectional Area and Vertebral Wedging in Children and Adolescents: A Cross-sectional Analysis. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 2257-2262. | 3.1 | 8 |
| 68 | Causes of out-toeing gait in children with cerebral palsy. <i>Gait and Posture</i> , 2020, 76, 141-145. | 0.6 | 8 |
| 69 | Predictors of Walking Activity in Children and Adolescents With Myelomeningocele. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 450-456. | 0.5 | 8 |
| 70 | Iliotibial Band Autograft Provides the Fastest Recovery of Knee Extensor Mechanism Function in Pediatric Anterior Cruciate Ligament Reconstruction. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7492. | 1.2 | 8 |
| 71 | Heterogeneity of muscle fat infiltration in children with spina bifida. <i>Research in Developmental Disabilities</i> , 2014, 35, 215-222. | 1.2 | 7 |
| 72 | Relationships among classifications of impairment and measures of ambulatory function for children with spina bifida. <i>Disability and Rehabilitation</i> , 2021, 43, 3696-3700. | 0.9 | 7 |

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|----|---|-----|-----------|
| 73 | Association between vertebral cross-sectional area and lumbar lordosis angle in adolescents. PLoS ONE, 2017, 12, e0172844. | 1.1 | 7 |
| 74 | Comparison of lateral shuffle and side-step cutting in young recreational athletes. Gait and Posture, 2016, 44, 189-193. | 0.6 | 6 |
| 75 | Advanced skeletal maturity in children and adolescents with myelomeningocele. Journal of Pediatric Rehabilitation Medicine, 2017, 10, 283-293. | 0.3 | 6 |
| 76 | Assessing the effects of sleep on neurocognitive performance and injury rate in adolescent athletes using actigraphy. Research in Sports Medicine, 2020, 28, 498-506. | 0.7 | 6 |
| 77 | A Simple Method to Obtain Consistent and Clinically Meaningful Pelvic Angles from Euler Angles during Gait Analysis. Journal of Applied Biomechanics, 2007, 23, 218-223. | 0.3 | 5 |
| 78 | Quantitative Analysis of Lower Leg Adipose Tissue Distribution in Youth with Myelomeningocele. Journal of Child Neurology, 2016, 31, 979-984. | 0.7 | 5 |
| 79 | The prevalence and risk factors for foot pressure ulcers in ambulatory pediatric patients with spina bifida. Disability and Rehabilitation, 2021, 43, 1287-1291. | 0.9 | 5 |
| 80 | Normalizing Lower Extremity Strength Data for Children, Adolescents, and Young Adults with Cerebral Palsy. Journal of Applied Biomechanics, 2009, 25, 195-202. | 0.3 | 4 |
| 81 | Quantitative Computed Tomography Assessment of Bone Deficits in Ambulatory Children and Adolescents with Spina Bifida: Importance of Puberty. JBMR Plus, 2020, 4, e10427. | 1.3 | 4 |
| 82 | Evolving Role of Imaging in the Evaluation of Bone Structure. Journal of Bone and Mineral Research, 2009, 24, 1943-1945. | 3.1 | 3 |
| 83 | Excessive Hip Flexion During Gait in Patients With Static Encephalopathy. Journal of Pediatric Orthopaedics, 2010, 30, 562-567. | 0.6 | 3 |
| 84 | Children with myelomeningocele do not exhibit normal remodeling of tibia roundness with physical development. Bone, 2018, 114, 292-297. | 1.4 | 3 |
| 85 | Hip Dysplasia Is Not More Common in W-Sitters. Clinical Pediatrics, 2020, 59, 1074-1079. | 0.4 | 3 |
| 86 | Vertebral cross-sectional growth: A predictor of vertebral wedging in the immature skeleton. PLoS ONE, 2017, 12, e0190225. | 1.1 | 2 |
| 87 | Gait and Posture Virtual Special Issue "Clinical Impact of Instrumented Motion Analysis". Gait and Posture, 2020, 82, 108-109. | 0.6 | 2 |
| 88 | Effect of Static Alignment on Dynamic Knee Abduction Moments in Adolescent Athletes with Recent ACL Reconstruction. Medicine and Science in Sports and Exercise, 2021, 53, 1555-1560. | 0.2 | 2 |
| 89 | Assessing bone accrual in cerebral palsy: new longitudinal data and future needs. Developmental Medicine and Child Neurology, 2015, 57, 990-991. | 1.1 | 1 |
| 90 | Biomechanical Symmetry during Drop Jump Landing and Takeoff in Adolescent Athletes Following Recent Anterior Cruciate Ligament Reconstruction. Symmetry, 2021, 13, 639. | 1.1 | 1 |

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| 91 | Cost savings for single event multilevel surgery in comparison to sequential surgery in ambulatory children with cerebral palsy. <i>Gait and Posture</i> , 2022, 96, 53-59. | 0.6 | 1 |
| 92 | Bone Density. , 2015, , 903-915. | | 0 |
| 93 | Increased Asymmetry of Trunk, Pelvis, and Hip Motion during Gait in Ambulatory Children with Spina Bifida. <i>Symmetry</i> , 2021, 13, 1595. | 1.1 | 0 |
| 94 | Validity of the McMurray Test for Meniscal Tear in Pediatric and Adolescent Patients. <i>Clinical Journal of Sport Medicine</i> , 2022, Publish Ahead of Print, . | 0.9 | 0 |