

Jaap Harlaar

List of Publications by Year in descending order

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Version: 2024-02-01

147
papers

4,703
citations

101535

36
h-index

128286

60
g-index

152
all docs

152
docs citations

152
times ranked

3969
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Complete 3D kinematics of upper extremity functional tasks. <i>Gait and Posture</i> , 2008, 27, 120-127. | 1.4 | 282 |
| 2 | The Application of Generalizability Theory to Reliability Assessment: An Illustration Using Isometric Force Measurements. <i>Physical Therapy</i> , 1993, 73, 386-395. | 2.4 | 204 |
| 3 | Two strategies of transferring from sit-to-stand; The activation of monoarticular and biarticular muscles. <i>Journal of Biomechanics</i> , 1994, 27, 1299-1307. | 2.1 | 179 |
| 4 | Recording scapular motion using an acromion marker cluster. <i>Gait and Posture</i> , 2009, 29, 123-128. | 1.4 | 153 |
| 5 | 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 |
| 6 | Effect of ankle-foot orthoses on walking efficiency and gait in children with cerebral palsy. <i>Journal of Rehabilitation Medicine</i> , 2008, 40, 529-534. | 1.1 | 127 |
| 7 | Electromechanical delay during knee extensor contractions. <i>Medicine and Science in Sports and Exercise</i> , 1991, 23, 1187-1193. | 0.4 | 99 |
| 8 | The globe system: An unambiguous description of shoulder positions in daily life movements. <i>Journal of Rehabilitation Research and Development</i> , 2003, 40, 149. | 1.6 | 97 |
| 9 | Upper limb kinematics: Development and reliability of a clinical protocol for children. <i>Gait and Posture</i> , 2011, 33, 279-285. | 1.4 | 92 |
| 10 | Polypropylene Ankle Foot Orthoses to Overcome Drop-Foot Gait in Central Neurological Patients. <i>Prosthetics and Orthotics International</i> , 2010, 34, 293-304. | 1.0 | 86 |
| 11 | Evaluation of clinical spasticity assessment in Cerebral palsy using inertial sensors. <i>Gait and Posture</i> , 2009, 30, 138-143. | 1.4 | 80 |
| 12 | Quadriceps muscle endurance in patients with chronic obstructive pulmonary disease. <i>Muscle and Nerve</i> , 2004, 29, 267-274. | 2.2 | 79 |
| 13 | The reliability of upper limb kinematics in children with hemiplegic cerebral palsy. <i>Gait and Posture</i> , 2011, 33, 568-575. | 1.4 | 79 |
| 14 | Gait Retraining With Real-Time Biofeedback to Reduce Knee Adduction Moment: Systematic Review of Effects and Methods Used. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, 137-150. | 0.9 | 78 |
| 15 | The Effects of Varying Ankle Foot Orthosis Stiffness on Gait in Children with Spastic Cerebral Palsy Who Walk with Excessive Knee Flexion. <i>PLoS ONE</i> , 2015, 10, e0142878. | 2.5 | 76 |
| 16 | Energy Demands of Walking in Persons With Postpoliomyelitis Syndrome: Relationship With Muscle Strength and Reproducibility. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 136-140. | 0.9 | 75 |
| 17 | Gait analysis in children with cerebral palsy via inertial and magnetic sensors. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 377-386. | 2.8 | 74 |
| 18 | Neuro-musculoskeletal simulation of instrumented contracture and spasticity assessment in children with cerebral palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 64. | 4.6 | 72 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The effectiveness of voluntary modifications of gait pattern to reduce the knee adduction moment. <i>Human Movement Science</i> , 2013, 32, 412-424. | 1.4 | 69 |
| 20 | 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 |
| 21 | Overground versus self-paced treadmill walking in a virtual environment in children with cerebral palsy. <i>Gait and Posture</i> , 2014, 40, 587-593. | 1.4 | 63 |
| 22 | Reproducibility evaluation of gross and net walking efficiency in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2007, 49, 45-48. | 2.1 | 60 |
| 23 | Validation of wearable visual feedback for retraining foot progression angle using inertial sensors and an augmented reality headset. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 78. | 4.6 | 60 |
| 24 | A clinically applicable EMG-force model to quantify active stabilization of the knee after a lesion of the anterior cruciate ligament. <i>Clinical Biomechanics</i> , 2003, 18, 142-149. | 1.2 | 58 |
| 25 | Reliability assessment of isometric knee extension measurements with a computer-assisted hand-held dynamometer. <i>Archives of Physical Medicine and Rehabilitation</i> , 1998, 79, 442-448. | 0.9 | 56 |
| 26 | Real-time visual feedback for gait retraining: toward application in knee osteoarthritis. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 275-286. | 2.8 | 54 |
| 27 | Evaluation of the Catch in Spasticity Assessment in Children With Cerebral Palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010, 91, 615-623. | 0.9 | 51 |
| 28 | Studies Examining the Efficacy of Ankle Foot Orthoses should Report Activity Level and Mechanical Evidence. <i>Prosthetics and Orthotics International</i> , 2010, 34, 327-335. | 1.0 | 50 |
| 29 | Effect of carbon-composite knee-ankle-foot orthoses on walking efficiency and gait in former polio patients. <i>Acta Dermato-Venereologica</i> , 2007, 39, 651-657. | 1.3 | 49 |
| 30 | Reliability and precision of 3D wireless measurement of scapular kinematics. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 921-931. | 2.8 | 48 |
| 31 | Muscle length and lengthening velocity in voluntary crouch gait. <i>Gait and Posture</i> , 2007, 26, 532-538. | 1.4 | 43 |
| 32 | The importance of addressing heteroscedasticity in the reliability analysis of ratio-scaled variables: an example based on walking energy-cost measurements. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 267-273. | 2.1 | 42 |
| 33 | 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 |
| 34 | Dynamic spasticity of plantar flexor muscles in cerebral palsy gait. <i>Journal of Rehabilitation Medicine</i> , 2010, 42, 656-663. | 1.1 | 40 |
| 35 | Real-time feedback to improve gait in children with cerebral palsy. <i>Gait and Posture</i> , 2017, 52, 76-82. | 1.4 | 40 |
| 36 | The effects of electromyography-assisted modelling in estimating musculotendon forces during gait in children with cerebral palsy. <i>Journal of Biomechanics</i> , 2019, 92, 45-53. | 2.1 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Immediate Effects of Immersive Biofeedback on Gait in Children With Cerebral Palsy. Archives of Physical Medicine and Rehabilitation, 2019, 100, 598-605. | 0.9 | 39 |
| 38 | Effect of real-time biofeedback on peak knee adduction moment in patients with medial knee osteoarthritis: Is direct feedback effective?. Clinical Biomechanics, 2018, 57, 150-158. | 1.2 | 38 |
| 39 | A candidate core set of outcome measures based on the international classification of functioning, disability and health for clinical studies on lower limb orthoses. Prosthetics and Orthotics International, 2011, 35, 269-277. | 1.0 | 37 |
| 40 | Assessing Longitudinal Change in Coordination of the Paretic Upper Limb Using On-Site 3-Dimensional Kinematic Measurements. Physical Therapy, 2012, 92, 142-151. | 2.4 | 36 |
| 41 | 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 |
| 42 | The learning process of gait retraining using real-time feedback in patients with medial knee osteoarthritis. Gait and Posture, 2018, 62, 1-6. | 1.4 | 35 |
| 43 | Freehand three-dimensional ultrasound to assess semitendinosus muscle morphology. Journal of Anatomy, 2016, 229, 591-599. | 1.5 | 34 |
| 44 | Methodological considerations for improving the reproducibility of walking efficiency outcomes in clinical gait studies. Gait and Posture, 2008, 27, 196-201. | 1.4 | 33 |
| 45 | Walking speed modifies spasticity effects in gastrocnemius and soleus in cerebral palsy gait. Clinical Biomechanics, 2009, 24, 422-428. | 1.2 | 32 |
| 46 | The effect of walking speed on hamstrings length and lengthening velocity in children with spastic cerebral palsy. Gait and Posture, 2009, 29, 640-644. | 1.4 | 32 |
| 47 | An individual approach for optimizing ankle-foot orthoses to improve mobility in children with spastic cerebral palsy walking with excessive knee flexion. Gait and Posture, 2016, 46, 104-111. | 1.4 | 32 |
| 48 | Self-paced versus fixed speed walking and the effect of virtual reality in children with cerebral palsy. Gait and Posture, 2015, 42, 498-504. | 1.4 | 31 |
| 49 | Instrumented assessment of motor function in dyskinetic cerebral palsy: a systematic review. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 39. | 4.6 | 31 |
| 50 | The validity and reliability of modelled neural and tissue properties of the ankle muscles in children with cerebral palsy. Gait and Posture, 2015, 42, 7-15. | 1.4 | 30 |
| 51 | Kinetic comparison of walking on a treadmill versus over ground in children with cerebral palsy. Journal of Biomechanics, 2015, 48, 3577-3583. | 2.1 | 30 |
| 52 | Accuracy of a practicable EMG to force model for knee muscles. Neuroscience Letters, 2004, 368, 78-81. | 2.1 | 29 |
| 53 | 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 |
| 54 | The Shank-to-Vertical-Angle as a parameter to evaluate tuning of Ankle-Foot Orthoses. Gait and Posture, 2015, 42, 269-274. | 1.4 | 29 |

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|----|--|-----|-----------|
| 55 | Evaluating cost function criteria in predicting healthy gait. <i>Journal of Biomechanics</i> , 2021, 123, 110530. | 2.1 | 29 |
| 56 | Can Treadmill Perturbations Evoke Stretch Reflexes in the Calf Muscles?. <i>PLoS ONE</i> , 2015, 10, e0144815. | 2.5 | 29 |
| 57 | Synergy of EMG patterns in gait as an objective measure of muscle selectivity in children with spastic cerebral palsy. <i>Gait and Posture</i> , 2012, 35, 111-115. | 1.4 | 28 |
| 58 | How Crouch Gait Can Dynamically Induce Stiff-Knee Gait. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1593-1606. | 2.5 | 27 |
| 59 | Motorized versus manual instrumented spasticity assessment in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 145-151. | 2.1 | 27 |
| 60 | Muscle Synergies in Response to Biofeedback-Driven Gait Adaptations in Children With Cerebral Palsy. <i>Frontiers in Physiology</i> , 2019, 10, 1208. | 2.8 | 27 |
| 61 | Comparing unilateral and bilateral upper limb training: The ULTRA-stroke program design. <i>BMC Neurology</i> , 2009, 9, 57. | 1.8 | 26 |
| 62 | Dynamic arm study: quantitative description of upper extremity function and activity of boys and men with duchenne muscular dystrophy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 45. | 4.6 | 25 |
| 63 | Modifying ankle foot orthosis stiffness in patients with calf muscle weakness: gait responses on group and individual level. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 120. | 4.6 | 25 |
| 64 | Determination of Functional Rotation Axes During Elevation of the Shoulder Complex. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2001, 31, 133-137. | 3.5 | 24 |
| 65 | Evaluation of moment-angle curves in isokinetic knee extension. <i>Medicine and Science in Sports and Exercise</i> , 1993, 25, 251-259. | 0.4 | 23 |
| 66 | Compensations in lower limb joint work during walking in response to unilateral calf muscle weakness. <i>Gait and Posture</i> , 2018, 66, 38-44. | 1.4 | 23 |
| 67 | Measurement of scapular dyskinesis using wireless inertial and magnetic sensors: Importance of scapula calibration. <i>Journal of Biomechanics</i> , 2015, 48, 3460-3468. | 2.1 | 22 |
| 68 | Analysis of gait patterns pre- and post- Single Event Multilevel Surgery in children with Cerebral Palsy by means of Offset-Wise Movement Analysis Profile and Linear Fit Method. <i>Human Movement Science</i> , 2017, 55, 145-155. | 1.4 | 22 |
| 69 | Repeatability of the Oxford Foot Model in children with foot deformity. <i>Gait and Posture</i> , 2018, 61, 86-89. | 1.4 | 20 |
| 70 | Towards validation and standardization of automatic gait event identification algorithms for use in paediatric pathological populations. <i>Gait and Posture</i> , 2021, 86, 64-69. | 1.4 | 20 |
| 71 | The influence of soft tissue artifacts on multi-segment foot kinematics. <i>Journal of Biomechanics</i> , 2021, 120, 110359. | 2.1 | 20 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Precision orthotics: optimising ankle foot orthoses to improve gait in patients with neuromuscular diseases; protocol of the PROOF-AFO study, a prospective intervention study. <i>BMJ Open</i> , 2017, 7, e013342. | 1.9 | 19 |
| 74 | 3D Ultrasound Imaging: Fast and Cost-effective Morphometry of Musculoskeletal Tissue. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.3 | 19 |
| 75 | 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 |
| 76 | Comparing the kinematic output of the Oxford and Rizzoli Foot Models during normal gait and voluntary pathological gait in healthy adults. <i>Gait and Posture</i> , 2020, 82, 126-132. | 1.4 | 19 |
| 77 | Lateral Trunk Motion and Knee Pain in Osteoarthritis of the Knee: a cross-sectional study. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 141. | 1.9 | 18 |
| 78 | Ambulatory measurement of the knee adduction moment in patients with osteoarthritis of the knee. <i>Journal of Biomechanics</i> , 2013, 46, 43-49. | 2.1 | 18 |
| 79 | Factors Associated With Long-Term Improvement of Gait After Selective Dorsal Rhizotomy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 474-480. | 0.9 | 18 |
| 80 | Osteoarthritis year in review 2021: mechanics. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 663-670. | 1.3 | 18 |
| 81 | Defining the Mechanical Properties of a Spring-hinged Ankle Foot Orthosis to Assess its Potential Use in Children With Spastic Cerebral Palsy. <i>Journal of Applied Biomechanics</i> , 2014, 30, 728-731. | 0.8 | 17 |
| 82 | Acclimatization of the gait pattern to wearing an ankle-foot orthosis in children with spastic cerebral palsy. <i>Clinical Biomechanics</i> , 2015, 30, 617-622. | 1.2 | 17 |
| 83 | Decreased Pain and Improved Dynamic Knee Instability Mediate the Beneficial Effect of Wearing a Soft Knee Brace on Activity Limitations in Patients With Knee Osteoarthritis. <i>Arthritis Care and Research</i> , 2019, 71, 1036-1043. | 3.4 | 17 |
| 84 | The SYBAR system: Integrated recording and display of video, EMG, and force plate data. <i>Behavior Research Methods</i> , 2000, 32, 11-16. | 1.3 | 16 |
| 85 | Influence of the instrumented force shoe on gait pattern in patients with osteoarthritis of the knee. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 1381-1392. | 2.8 | 16 |
| 86 | Stiffness-Optimized Ankle-Foot Orthoses Improve Walking Energy Cost Compared to Conventional Orthoses in Neuromuscular Disorders: A Prospective Uncontrolled Intervention Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2296-2304. | 4.9 | 16 |
| 87 | Stiffness control for lower leg muscles in directing external forces. <i>Neuroscience Letters</i> , 1995, 202, 61-64. | 2.1 | 15 |
| 88 | Calibration of EMG to force for knee muscles is applicable with submaximal voluntary contractions. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 429-435. | 1.7 | 15 |
| 89 | The knee adduction moment measured with an instrumented force shoe in patients with knee osteoarthritis. <i>Journal of Biomechanics</i> , 2012, 45, 281-288. | 2.1 | 15 |
| 90 | The immediate effect of a soft knee brace on pain, activity limitations, self-reported knee instability, and self-reported knee confidence in patients with knee osteoarthritis. <i>Arthritis Research and Therapy</i> , 2017, 19, 260. | 3.5 | 15 |

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|-----|---|-----|-----------|
| 91 | How normal is normal: Consequences of stride to stride variability, treadmill walking and age when using normative paediatric gait data. <i>Gait and Posture</i> , 2019, 70, 289-297. | 1.4 | 15 |
| 92 | Surface EMG to assess arm function in boys with DMD: A pilot study. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 323-328. | 1.7 | 14 |
| 93 | Development of an Ankle-Foot Orthosis That Provides Support for Flaccid Paretic Plantarflexor and Dorsiflexor Muscles. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1036-1045. | 4.9 | 14 |
| 94 | Age-Related Longitudinal Changes in Metabolic Energy Expenditure during Walking in Boys with Duchenne Muscular Dystrophy. <i>PLoS ONE</i> , 2014, 9, e115200. | 2.5 | 14 |
| 95 | Validation of hamstrings musculoskeletal modeling by calculating peak hamstrings length at different hip angles. <i>Journal of Biomechanics</i> , 2008, 41, 1022-1028. | 2.1 | 13 |
| 96 | Optimising Ankle Foot Orthoses for children with Cerebral Palsy walking with excessive knee flexion to improve their mobility and participation; protocol of the AFO-CP study. <i>BMC Pediatrics</i> , 2013, 13, 17. | 1.7 | 13 |
| 97 | Foot progression angle estimation using a single foot-worn inertial sensor. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 37. | 4.6 | 13 |
| 98 | Hip abductor function in adults treated for Perthes disease. <i>Journal of Pediatric Orthopaedics Part B</i> , 2006, 15, 183-189. | 0.6 | 12 |
| 99 | Co-contraction in RA patients with a mobile bearing total knee prosthesis during a step-up task. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2008, 16, 734-740. | 4.2 | 11 |
| 100 | The effect of shoe lacing on plantar pressure distribution and in-shoe displacement of the foot in healthy participants. <i>Gait and Posture</i> , 2011, 33, 396-400. | 1.4 | 11 |
| 101 | Cross-Cultural and Construct Validity of the Animated Activity Questionnaire. <i>Arthritis Care and Research</i> , 2017, 69, 1349-1359. | 3.4 | 11 |
| 102 | The immediate effect of a soft knee brace on dynamic knee instability in persons with knee osteoarthritis. <i>Rheumatology</i> , 2018, 57, 1735-1742. | 1.9 | 11 |
| 103 | Use of a Shoulder Rest for Playing the Violin Revisited: An Analysis of the Effect of Shoulder Rest Height on Muscle Activity, Violin Fixation Force, and Player Comfort. <i>Medical Problems of Performing Artists</i> , 2019, 34, 39-46. | 0.4 | 11 |
| 104 | Description of orthotic properties and effects evaluation of ankle-foot orthoses in non-spastic calf muscle weakness. <i>Journal of Rehabilitation Medicine</i> , 2020, 52, jrm00026. | 1.1 | 11 |
| 105 | Objective parameters to measure (in)stability of the knee joint during gait: A review of literature. <i>Gait and Posture</i> , 2019, 70, 235-253. | 1.4 | 10 |
| 106 | Validation of the foot profile score. <i>Gait and Posture</i> , 2019, 71, 120-125. | 1.4 | 10 |
| 107 | Individual stiffness optimization of dorsal leaf spring ankle-foot orthoses in people with calf muscle weakness is superior to standard bodyweight-based recommendations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 97. | 4.6 | 10 |
| 108 | Relations between muscle endurance and subjectively reported fatigue, walking capacity, and participation in mildly affected adolescents with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 814-821. | 2.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Unraveling upper extremity performance in Duchenne muscular dystrophy: A biophysical model. <i>Neuromuscular Disorders</i> , 2019, 29, 368-375. | 0.6 | 9 |
| 110 | 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 |
| 111 | Development and Validation of the Computer-Administered Animated Activity Questionnaire to Measure Physical Functioning of Patients With Hip or Knee Osteoarthritis. <i>Physical Therapy</i> , 2014, 94, 251-261. | 2.4 | 8 |
| 112 | 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 |
| 113 | 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 |
| 114 | Assisting gait with free moments or joint moments on the swing leg. , 2019, 2019, 1079-1084. | | 8 |
| 115 | Foot function during gait and parental perceived outcome in older children with symptomatic club foot deformity. <i>Bone & Joint Open</i> , 2020, 1, 384-391. | 2.6 | 8 |
| 116 | Home-Based Measurements of Dystonia in Cerebral Palsy Using Smartphone-Coupled Inertial Sensor Technology and Machine Learning: A Proof-of-Concept Study. <i>Sensors</i> , 2022, 22, 4386. | 3.8 | 8 |
| 117 | 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 |
| 118 | Mobile-bearing total knee arthroplasty: More rotation is evident during more demanding tasks. <i>Knee</i> , 2014, 21, 960-963. | 1.6 | 6 |
| 119 | Differences in violin fixation force and muscle activity among violinists with and without complaints of the neck shoulder region. <i>Journal of Electromyography and Kinesiology</i> , 2018, 43, 217-225. | 1.7 | 6 |
| 120 | Preliminary effectiveness of a sequential exercise intervention on gait function in ambulant patients with multiple sclerosis – A pilot study. <i>Clinical Biomechanics</i> , 2019, 62, 1-6. | 1.2 | 6 |
| 121 | The effect of mono- versus multi-segment musculoskeletal models of the foot on simulated triceps surae lengths in pathological and healthy gait. <i>Gait and Posture</i> , 2020, 77, 14-19. | 1.4 | 6 |
| 122 | How to measure responses of the knee to lateral perturbations during gait? A proof-of-principle for quantification of knee instability. <i>Journal of Biomechanics</i> , 2017, 61, 111-122. | 2.1 | 5 |
| 123 | Neuromechanical assessment of knee joint instability during perturbed gait in patients with knee osteoarthritis. <i>Journal of Biomechanics</i> , 2021, 118, 110325. | 2.1 | 5 |
| 124 | Inter-laboratory comparison of knee biomechanics and muscle activation patterns during gait in patients with knee osteoarthritis. <i>Knee</i> , 2021, 29, 500-509. | 1.6 | 5 |
| 125 | Neuromuscular Control before and after Independent Walking Onset in Children with Cerebral Palsy. <i>Sensors</i> , 2021, 21, 2714. | 3.8 | 5 |
| 126 | How to compare knee kinetics at different walking speeds?. <i>Gait and Posture</i> , 2021, 88, 225-230. | 1.4 | 5 |

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|-----|--|-----|-----------|
| 127 | Applying Stretch to Evoke Hyperreflexia in Spasticity Testing: Velocity vs. Acceleration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 591004. | 4.1 | 4 |
| 128 | Early Development of Locomotor Patterns and Motor Control in Very Young Children at High Risk of Cerebral Palsy, a Longitudinal Case Series. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 659415. | 2.0 | 4 |
| 129 | Exergaming improves balance in children with spastic cerebral palsy with low balance performance: results from a multicenter controlled trial. <i>Disability and Rehabilitation</i> , 2021, , 1-10. | 1.8 | 4 |
| 130 | Reliability testing of the heel marker in three-dimensional gait analysis. <i>Gait and Posture</i> , 2021, 85, 84-87. | 1.4 | 3 |
| 131 | Marker placement sensitivity of the Oxford and Rizzoli foot models in adults and children. <i>Journal of Biomechanics</i> , 2021, 126, 110629. | 2.1 | 3 |
| 132 | The Stumblemeter: Design and Validation of a System That Detects and Classifies Stumbles during Gait. <i>Sensors</i> , 2021, 21, 6636. | 3.8 | 3 |
| 133 | The Amsterdam Foot Model: a clinically informed multi-segment foot model developed to minimize measurement errors in foot kinematics. <i>Journal of Foot and Ankle Research</i> , 2022, 15, . | 1.9 | 3 |
| 134 | Diagnosis and Treatment of Spasticity and Stiff Muscles. <i>EBioMedicine</i> , 2016, 9, 23-24. | 6.1 | 2 |
| 135 | Mobility of the rotating platform in low contact stress knee arthroplasty is durable. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 2580-2585. | 4.2 | 2 |
| 136 | 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 |
| 137 | Responses in knee joint muscle activation patterns to different perturbations during gait in healthy subjects. <i>Journal of Electromyography and Kinesiology</i> , 2021, 60, 102572. | 1.7 | 2 |
| 138 | Reliability and Validity of IMU-Based Foot Progression Angle Measurement under Different Gait Retraining Strategies. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6519. | 2.5 | 2 |
| 139 | O 016 - Investigating the roll-over shape in children with cerebral palsy walking with and without ankle foot orthoses. <i>Gait and Posture</i> , 2018, 65, 29-30. | 1.4 | 1 |
| 140 | Spasticity Assessment in Cerebral Palsy. , 2018, , 1-16. | | 1 |
| 141 | Spasticity Assessment in Cerebral Palsy. , 2020, , 585-600. | | 1 |
| 142 | The Codivilla spring: from then to now and beyond. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, . | 2.2 | 1 |
| 143 | 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 |
| 144 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Functional assessment of stretch hyperreflexia in children with cerebral palsy using treadmill perturbations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 151. | 4.6 | 0 |
| 146 | Foot function during gait and parental perceived outcome in older children with symptomatic club foot deformity. <i>Bone & Joint Open</i> , 2020, 1, 384-391. | 2.6 | 0 |
| 147 | Responsiveness of the Foot Profile Score in children with hemiplegia. <i>Gait and Posture</i> , 2022, 95, 160-163. | 1.4 | 0 |