

Kaat Desloovere Pt

List of Publications by Year in descending order

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Version: 2024-02-01

226
papers

8,568
citations

47409

49
h-index

75989

78
g-index

239
all docs

239
docs citations

239
times ranked

6669
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Muscle synergy structure and gait patterns in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2022, 64, 462-468. | 1.1 | 13 |
| 2 | The Function Assessment Scale for Spinal Deformity. <i>Spine</i> , 2022, 47, E64-E72. | 1.0 | 6 |
| 3 | Spinopelvic movement strategies during sit-to-stand and stand-to-sit in adult spinal deformity. <i>Gait and Posture</i> , 2022, 92, 15-23. | 0.6 | 3 |
| 4 | Human iPSC model reveals a central role for NOX4 and oxidative stress in Duchenne cardiomyopathy. <i>Stem Cell Reports</i> , 2022, 17, 352-368. | 2.3 | 15 |
| 5 | Reduced Cross-Sectional Muscle Growth Six Months after Botulinum Toxin Type-A Injection in Children with Spastic Cerebral Palsy. <i>Toxins</i> , 2022, 14, 139. | 1.5 | 13 |
| 6 | Reliability of Isokinetic Strength Assessments of Knee and Hip Using the Biodex System 4 Dynamometer and Associations With Functional Strength in Healthy Children. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 817216. | 0.9 | 11 |
| 7 | Reliability and agreement of lumbar multifidus volume and fat fraction quantification using magnetic resonance imaging. <i>Musculoskeletal Science and Practice</i> , 2022, 59, 102532. | 0.6 | 2 |
| 8 | The effect of hip muscle weakness and femoral bony deformities on gait performance. <i>Gait and Posture</i> , 2021, 83, 280-286. | 0.6 | 6 |
| 9 | Interventions and lower-limb macroscopic muscle morphology in children with spastic cerebral palsy: a scoping review. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 274-286. | 1.1 | 15 |
| 10 | The mechanics behind gait problems in patients with Dravet Syndrome. <i>Gait and Posture</i> , 2021, 84, 321-328. | 0.6 | 7 |
| 11 | Foot-floor contact pattern in children and adults with Dravet Syndrome. <i>Gait and Posture</i> , 2021, 84, 315-320. | 0.6 | 2 |
| 12 | Dynamic sagittal alignment and compensation strategies in adult spinal deformity during walking. <i>Spine Journal</i> , 2021, 21, 1059-1071. | 0.6 | 20 |
| 13 | Muscle Characteristics in Pediatric Hereditary Spastic Paraplegia vs. Bilateral Spastic Cerebral Palsy: An Exploratory Study. <i>Frontiers in Neurology</i> , 2021, 12, 635032. | 1.1 | 6 |
| 14 | ESB Clinical Biomechanics Award 2020: Pelvis and hip movement strategies discriminate typical and pathological femoral growth – Insights gained from a multi-scale mechanobiological modelling framework. <i>Clinical Biomechanics</i> , 2021, 87, 105405. | 0.5 | 12 |
| 15 | The Contribution of Decreased Muscle Size to Muscle Weakness in Children With Spastic Cerebral Palsy. <i>Frontiers in Neurology</i> , 2021, 12, 692582. | 1.1 | 16 |
| 16 | The reliability of measuring medial gastrocnemius muscle-tendon unit lengths during gait. <i>Gait and Posture</i> , 2021, 90, 464-467. | 0.6 | 1 |
| 17 | Muscle and tendon properties of the spastic lower leg after stroke defined by ultrasonography: a systematic review. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 495-510. | 1.1 | 5 |
| 18 | Reliability of Processing 3-D Freehand Ultrasound Data to Define Muscle Volume and Echo-intensity in Pediatric Lower Limb Muscles with Typical Development or with Spasticity. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 2702-2712. | 0.7 | 15 |

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|----|---|-----|-----------|
| 19 | Strength measurements in patients with Dravet Syndrome. <i>European Journal of Paediatric Neurology</i> , 2021, 35, 100-110. | 0.7 | 1 |
| 20 | Reliability of functional tests of the lower limbs and core stability in children and adolescents with cerebral palsy. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 738-746. | 1.1 | 2 |
| 21 | Factors Associated With the Ultrasound Characteristics of the Lumbar Multifidus: A Systematic Review. <i>PM and R</i> , 2020, 12, 82-100. | 0.9 | 13 |
| 22 | Semi-automatic methods for tracking the medial gastrocnemius muscle-tendon junction using ultrasound: a validation study. <i>Experimental Physiology</i> , 2020, 105, 120-131. | 0.9 | 8 |
| 23 | Tone Reduction and Physical Therapy: Strengthening Partners in Treatment of Children with Spastic Cerebral Palsy. <i>Neuropediatrics</i> , 2020, 51, 089-104. | 0.3 | 13 |
| 24 | Age-related differences in interlimb coordination during typical gait: An observational study. <i>Gait and Posture</i> , 2020, 81, 109-115. | 0.6 | 6 |
| 25 | Structural Brain Lesions and Gait Pathology in Children With Spastic Cerebral Palsy. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 275. | 1.0 | 7 |
| 26 | Muscle Microbiopsy to Delineate Stem Cell Involvement in Young Patients: A Novel Approach for Children With Cerebral Palsy. <i>Frontiers in Physiology</i> , 2020, 11, 945. | 1.3 | 13 |
| 27 | Muscle weakness has a limited effect on motor control of gait in Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2020, 15, e0238445. | 1.1 | 12 |
| 28 | Movement History Influences Pendulum Test Kinematics in Children With Spastic Cerebral Palsy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 920. | 2.0 | 10 |
| 29 | Joint and Muscle Assessments of the Separate Effects of Botulinum NeuroToxin-A and Lower-Leg Casting in Children With Cerebral Palsy. <i>Frontiers in Neurology</i> , 2020, 11, 210. | 1.1 | 7 |
| 30 | Treatment Response to Botulinum Neurotoxin-A in Children With Cerebral Palsy Categorized by the Type of Stretch Reflex Muscle Activation. <i>Frontiers in Neurology</i> , 2020, 11, 378. | 1.1 | 6 |
| 31 | Physics-Based Simulations to Predict the Differential Effects of Motor Control and Musculoskeletal Deficits on Gait Dysfunction in Cerebral Palsy: A Retrospective Case Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 40. | 1.0 | 46 |
| 32 | Effects of combining constraint-induced movement therapy and action-observation training on upper limb kinematics in children with unilateral cerebral palsy: a randomized controlled trial. <i>Scientific Reports</i> , 2020, 10, 10421. | 1.6 | 18 |
| 33 | A subject-specific method to measure dynamic spinal alignment in adult spinal deformity. <i>Spine Journal</i> , 2020, 20, 934-946. | 0.6 | 20 |
| 34 | Pre-treatment sEMG can be used to model post-treatment muscle coordination during walking in children with cerebral palsy. <i>PLoS ONE</i> , 2020, 15, e0228851. | 1.1 | 9 |
| 35 | Applying Stretch to Evoke Hyperreflexia in Spasticity Testing: Velocity vs. Acceleration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 591004. | 2.0 | 4 |
| 36 | Spasticity Assessment in Cerebral Palsy. , 2020, , 585-600. | | 1 |

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|----|---|-----|-----------|
| 37 | Inter-laboratory and inter-operator reproducibility in gait analysis measurements in pediatric subjects. <i>International Biomechanics</i> , 2019, 6, 19-33. | 0.9 | 13 |
| 38 | SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children With Cerebral Palsy. <i>Frontiers in Neurorobotics</i> , 2019, 13, 54. | 1.6 | 40 |
| 39 | Editorial: Motor Control of Gait and the Underlying Neural Network in Pediatric Neurology. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 226. | 1.0 | 3 |
| 40 | Are spasticity, weakness, selectivity, and passive range of motion related to gait deviations in children with spastic cerebral palsy? A statistical parametric mapping study. <i>PLoS ONE</i> , 2019, 14, e0223363. | 1.1 | 49 |
| 41 | Reliability of the balance evaluation systems test and trunk control measurement scale in adult spinal deformity. <i>PLoS ONE</i> , 2019, 14, e0221489. | 1.1 | 5 |
| 42 | Effects of elastic tape on kinematic parameters during a functional task in chronic hemiparetic subjects: A randomized sham-controlled crossover trial. <i>PLoS ONE</i> , 2019, 14, e0211332. | 1.1 | 4 |
| 43 | Systematic review on gait classifications in children with cerebral palsy: An update. <i>Gait and Posture</i> , 2019, 69, 209-223. | 0.6 | 46 |
| 44 | Role of femoral derotation on gait after selective dorsal rhizotomy in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2019, 61, 1196-1201. | 1.1 | 7 |
| 45 | Muscle synergies demonstrate only minimal changes after treatment in cerebral palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 46. | 2.4 | 77 |
| 46 | Selective dorsal rhizotomy improves muscle forces during walking in children with spastic cerebral palsy. <i>Clinical Biomechanics</i> , 2019, 65, 26-33. | 0.5 | 22 |
| 47 | Gait deviations in patients with dravet syndrome: A systematic review. <i>European Journal of Paediatric Neurology</i> , 2019, 23, 357-367. | 0.7 | 20 |
| 48 | Muscle Synergy Constraints Do Not Improve Estimates of Muscle Activity From Static Optimization During Gait for Unimpaired Children or Children With Cerebral Palsy. <i>Frontiers in Neurorobotics</i> , 2019, 13, 102. | 1.6 | 9 |
| 49 | Medial gastrocnemius volume and echo intensity after botulinum neurotoxin A interventions in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2019, 61, 783-790. | 1.1 | 33 |
| 50 | Combining muscle morphology and neuromotor symptoms to explain abnormal gait at the ankle joint level in cerebral palsy. <i>Gait and Posture</i> , 2019, 68, 531-537. | 0.6 | 17 |
| 51 | Efficient image based method using water-filled balloons for improving probe spatial calibration in 3D freehand ultrasonography. <i>Ultrasonics</i> , 2019, 94, 124-130. | 2.1 | 6 |
| 52 | SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children with Cerebral Palsy. <i>Biosystems and Biorobotics</i> , 2019, , 267-270. | 0.2 | 0 |
| 53 | Associations Between Muscle Synergies and Treatment Outcomes in Cerebral Palsy Are Robust Across Clinical Centers. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 2175-2182. | 0.5 | 35 |
| 54 | Longitudinal joint loading in patients before and up to one year after unilateral total hip arthroplasty. <i>Gait and Posture</i> , 2018, 61, 117-124. | 0.6 | 35 |

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|----|---|-----|-----------|
| 55 | Reliability of a clinical 3D freehand ultrasound technique: Analyses on healthy and pathological muscles. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 156, 97-103. | 2.6 | 35 |
| 56 | Medial gastrocnemius muscle stiffness cannot explain the increased ankle joint range of motion following passive stretching in children with cerebral palsy. <i>Experimental Physiology</i> , 2018, 103, 350-357. | 0.9 | 25 |
| 57 | Gait deviations in Duchenne muscular dystrophyâ€”Part 2. Statistical non-parametric mapping to analyze gait deviations in children with Duchenne muscular dystrophy. <i>Gait and Posture</i> , 2018, 63, 159-164. | 0.6 | 24 |
| 58 | Gait deviations in Duchenne muscular dystrophyâ€”Part 1. A systematic review. <i>Gait and Posture</i> , 2018, 62, 247-261. | 0.6 | 28 |
| 59 | Kinematic Analysis of a Drinking Task in Chronic Hemiparetic Patients Using Features Analysis and Statistical Parametric Mapping. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 501-511.e4. | 0.5 | 14 |
| 60 | Estimating medial gastrocnemius muscle volume in children with spastic cerebral palsy: a cross-sectional investigation. <i>Developmental Medicine and Child Neurology</i> , 2018, 60, 81-87. | 1.1 | 24 |
| 61 | Hip movement pathomechanics of patients with hip osteoarthritis aim at reducing hip joint loading on the osteoarthritic side. <i>Gait and Posture</i> , 2018, 59, 11-17. | 0.6 | 47 |
| 62 | Can in Vivo Medial Gastrocnemius Muscleâ€”Tendon Unit Lengths be Reliably Estimated by Two Ultrasonography Methods? A Within-Session Analysis. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 110-118. | 0.7 | 13 |
| 63 | A spasticity model based on feedback from muscle force explains muscle activity during passive stretches and gait in children with cerebral palsy. <i>PLoS ONE</i> , 2018, 13, e0208811. | 1.1 | 56 |
| 64 | The Relationship Between Medial Gastrocnemius Lengthening Properties and Stretch Reflexes in Cerebral Palsy. <i>Frontiers in Pediatrics</i> , 2018, 6, 259. | 0.9 | 18 |
| 65 | Medial Gastrocnemius Muscleâ€”Tendon Junction and Fascicle Lengthening across the Range of Motion Analyzed in 2-D and 3-D Ultrasound Images. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2505-2518. | 0.7 | 12 |
| 66 | The influence of maximum isometric muscle force scaling on estimated muscle forces from musculoskeletal models of children with cerebral palsy. <i>Gait and Posture</i> , 2018, 65, 213-220. | 0.6 | 36 |
| 67 | Combining constraint-induced movement therapy and action-observation training in children with unilateral cerebral palsy: a randomized controlled trial. <i>BMC Pediatrics</i> , 2018, 18, 250. | 0.7 | 22 |
| 68 | Non-neural Muscle Weakness Has Limited Influence on Complexity of Motor Control during Gait. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 5. | 1.0 | 33 |
| 69 | Muscle and tendon lengthening behaviour of the medial gastrocnemius during ankle joint rotation in children with cerebral palsy. <i>Experimental Physiology</i> , 2018, 103, 1367-1376. | 0.9 | 24 |
| 70 | Age-related changes in upper limb motion during typical development. <i>PLoS ONE</i> , 2018, 13, e0198524. | 1.1 | 32 |
| 71 | Age-related changes in arm motion during typical gait. <i>Gait and Posture</i> , 2018, 66, 51-57. | 0.6 | 11 |
| 72 | Spasticity Assessment in Cerebral Palsy. , 2018, , 1-16. | | 1 |

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|----|--|-----|-----------|
| 73 | A new strength assessment to evaluate the association between muscle weakness and gait pathology in children with cerebral palsy. PLoS ONE, 2018, 13, e0191097. | 1.1 | 28 |
| 74 | An innovative solution to reduce muscle deformation during ultrasonography data collection. Journal of Biomechanics, 2018, 77, 194-200. | 0.9 | 12 |
| 75 | Inter- and intrarater clinician agreement on joint motion patterns during gait in children with cerebral palsy. Developmental Medicine and Child Neurology, 2017, 59, 750-755. | 1.1 | 8 |
| 76 | Achilles tendon moment arm length is smaller in children with cerebral palsy than in typically developing children. Journal of Biomechanics, 2017, 56, 48-54. | 0.9 | 24 |
| 77 | In vivo muscle behaviour in cerebral palsy with an equinus gait: are we on track?. Developmental Medicine and Child Neurology, 2017, 59, 781-782. | 1.1 | 1 |
| 78 | European consensus on the concepts and measurement of the pathophysiological neuromuscular responses to passive muscle stretch. European Journal of Neurology, 2017, 24, 981. | 1.7 | 90 |
| 79 | Motorized versus manual instrumented spasticity assessment in children with cerebral palsy. Developmental Medicine and Child Neurology, 2017, 59, 145-151. | 1.1 | 27 |
| 80 | The Effect of Additional Virtual Reality Training on Balance in Children with Cerebral Palsy after Lower Limb Surgery: A Feasibility Study. Games for Health Journal, 2017, 6, 39-48. | 1.1 | 27 |
| 81 | Clinical Case: Simulation-based evaluation of post-operative gait function to support clinical decision making in cerebral palsy. Gait and Posture, 2017, 57, 102-103. | 0.6 | 3 |
| 82 | Gait deviations in children with Duchenne Muscular Dystrophy can be directly attributed to muscle weakness in two lower limb muscle groups. Gait and Posture, 2017, 57, 38-39. | 0.6 | 2 |
| 83 | P95: Upper limb three-dimensional motion analysis: A comparison between children with unilateral cerebral palsy and typically developing children using Statistical Parametric Mapping. Gait and Posture, 2017, 57, 331-332. | 0.6 | 0 |
| 84 | Is ultrasound characterisation of tissue composition related to rate of force development in children with Duchenne Muscular Dystrophy?. Gait and Posture, 2017, 57, 34-35. | 0.6 | 0 |
| 85 | O36: Classification of joint gait patterns in children with hereditary spastic paraplegia. Gait and Posture, 2017, 57, 62-63. | 0.6 | 0 |
| 86 | Clinical Case: The effect of Botulinum Toxin-A and casting on the neural and non-neural components of ankle hyper-resistance, medial gastrocnemius muscle morphology and gait in a child with spastic cerebral palsy. Gait and Posture, 2017, 57, 100-101. | 0.6 | 0 |
| 87 | O61: Are medial gastrocnemius and tibialis anterior morphology indicative of kinematic and kinetic impairment during gait in children with spastic cerebral palsy and a control group of typically developing peers?. Gait and Posture, 2017, 57, 106-107. | 0.6 | 0 |
| 88 | Can muscle morphology and internal composition of lower limb muscles explain strength and gait deficits in children with spastic cerebral palsy?. Gait and Posture, 2017, 57, 114-115. | 0.6 | 0 |
| 89 | O77: Are baseline joint patterns in the sagittal plane indicative for the success of botulinum toxin injections in children with cerebral palsy?. Gait and Posture, 2017, 57, 133-134. | 0.6 | 0 |
| 90 | Are static sagittal compensation strategies preserved during walking in adult spinal deformity?. Gait and Posture, 2017, 57, 188-189. | 0.6 | 4 |

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|-----|--|-----|-----------|
| 91 | Simulation of passive gastrocnemius muscle-tendon properties in cerebral palsy and typically developing children. <i>Gait and Posture</i> , 2017, 57, 194-195. | 0.6 | 0 |
| 92 | Prevalence of Joint Gait Patterns Defined by a Delphi Consensus Study Is Related to Gross Motor Function, Topographical Classification, Weakness, and Spasticity, in Children with Cerebral Palsy. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 185. | 1.0 | 9 |
| 93 | Negative Influence of Motor Impairments on Upper Limb Movement Patterns in Children with Unilateral Cerebral Palsy. A Statistical Parametric Mapping Study. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 482. | 1.0 | 20 |
| 94 | Structural Brain Damage and Upper Limb Kinematics in Children with Unilateral Cerebral Palsy. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 607. | 1.0 | 11 |
| 95 | Statistical Parametric Mapping to Identify Differences between Consensus-Based Joint Patterns during Gait in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2017, 12, e0169834. | 1.1 | 30 |
| 96 | Does expert knowledge improve automatic probabilistic classification of gait joint motion patterns in children with cerebral palsy?. <i>PLoS ONE</i> , 2017, 12, e0178378. | 1.1 | 10 |
| 97 | Evaluation of tissue displacement and regional strain in the Achilles tendon using quantitative high-frequency ultrasound. <i>PLoS ONE</i> , 2017, 12, e0181364. | 1.1 | 36 |
| 98 | Elastic Tape Improved Shoulder Joint Position Sense in Chronic Hemiparetic Subjects: A Randomized Sham-Controlled Crossover Study. <i>PLoS ONE</i> , 2017, 12, e0170368. | 1.1 | 20 |
| 99 | Clinical assessment and three-dimensional movement analysis: An integrated approach for upper limb evaluation in children with unilateral cerebral palsy. <i>PLoS ONE</i> , 2017, 12, e0180196. | 1.1 | 30 |
| 100 | Restricted Arm Swing Affects Gait Stability and Increased Walking Speed Alters Trunk Movements in Children with Cerebral Palsy. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 354. | 1.0 | 38 |
| 101 | Children with Spastic Cerebral Palsy Experience Difficulties Adjusting Their Gait Pattern to Weight Added to the Waist, While Typically Developing Children Do Not. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 657. | 1.0 | 15 |
| 102 | Literature Review and Comparison of Two Statistical Methods to Evaluate the Effect of Botulinum Toxin Treatment on Gait in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2016, 11, e0152697. | 1.1 | 42 |
| 103 | The arm posture in children with unilateral Cerebral Palsy is mainly related to antero-posterior gait instability. <i>Gait and Posture</i> , 2016, 49, 132-135. | 0.6 | 14 |
| 104 | Identification of joint patterns during gait in children with cerebral palsy: a Delphi consensus study. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 306-313. | 1.1 | 37 |
| 105 | Gait alterations can reduce the risk of edge loading. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1069-1076. | 1.2 | 9 |
| 106 | Evaluation of stair motion contributes to new insights into hip osteoarthritis-related motion pathomechanics. <i>Journal of Orthopaedic Research</i> , 2016, 34, 187-196. | 1.2 | 15 |
| 107 | Subject-specific musculoskeletal modelling in patients before and after total hip arthroplasty. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1683-1691. | 0.9 | 32 |
| 108 | The reliability and validity of a clinical 3D freehand ultrasound system. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 136, 179-187. | 2.6 | 54 |

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|-----|--|-----|-----------|
| 109 | Neuro-musculoskeletal simulation of instrumented contracture and spasticity assessment in children with cerebral palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 64. | 2.4 | 72 |
| 110 | High-demand motor tasks are more sensitive to detect persisting alterations in muscle activation following total knee replacement. <i>Gait and Posture</i> , 2016, 50, 151-158. | 0.6 | 3 |
| 111 | Isolated patellofemoral arthroplasty reproduces natural patellofemoral joint kinematics when the patella is resurfaced. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 3668-3677. | 2.3 | 19 |
| 112 | Does surgical approach or prosthesis type affect hip joint loading one year after surgery?. <i>Gait and Posture</i> , 2016, 44, 74-82. | 0.6 | 19 |
| 113 | Repeatability of muscle synergies within and between days for typically developing children and children with cerebral palsy. <i>Gait and Posture</i> , 2016, 45, 127-132. | 0.6 | 60 |
| 114 | Macrostructural and Microstructural Brain Lesions Relate to Gait Pathology in Children With Cerebral Palsy. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 817-833. | 1.4 | 17 |
| 115 | Subject-specific geometrical detail rather than cost function formulation affects hip loading calculation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1475-1488. | 0.9 | 37 |
| 116 | Age-related changes in postural sway in preschoolers. <i>Gait and Posture</i> , 2016, 44, 116-122. | 0.6 | 24 |
| 117 | Gait analysis: clinical facts. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2016, 52, 560-74. | 1.1 | 60 |
| 118 | Motor endplate-targeted botulinum toxin injections of the gracilis muscle in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 476-483. | 1.1 | 17 |
| 119 | Biomechanical gait features associated with hip osteoarthritis: Towards a better definition of clinical hallmarks. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1498-1507. | 1.2 | 45 |
| 120 | The Intra- and Inter-Rater Reliability of an Instrumented Spasticity Assessment in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2015, 10, e0131011. | 1.1 | 27 |
| 121 | Spasticity and Its Contribution to Hypertonia in Cerebral Palsy. <i>BioMed Research International</i> , 2015, 2015, 1-10. | 0.9 | 96 |
| 122 | A study of whether video scoring is a reliable option for blinded scoring of the Gross Motor Function Measure-88. <i>Clinical Rehabilitation</i> , 2015, 29, 809-815. | 1.0 | 9 |
| 123 | Trunk control in children with cerebral palsy: where are we now?. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 310-311. | 1.1 | 6 |
| 124 | Gait alterations to effectively reduce hip contact forces. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1094-1102. | 1.2 | 63 |
| 125 | Role of motor end plate-targeted Botulinum toxin type A injections in children with cerebral palsy. <i>Acta Orthopaedica Belgica</i> , 2015, 81, 167-71. | 0.1 | 3 |
| 126 | Muscle Activation Patterns When Passively Stretching Spastic Lower Limb Muscles of Children with Cerebral Palsy. <i>PLoS ONE</i> , 2014, 9, e91759. | 1.1 | 36 |

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|-----|--|-----|-----------|
| 127 | Patellofemoral arthroplasty influences tibiofemoral kinematics: the effect of patellar thickness. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 2560-2568. | 2.3 | 20 |
| 128 | Manually controlled instrumented spasticity assessments: a systematic review of psychometric properties. <i>Developmental Medicine and Child Neurology</i> , 2014, 56, 932-950. | 1.1 | 35 |
| 129 | Hip contact force in presence of aberrant bone geometry during normal and pathological gait. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1406-1415. | 1.2 | 44 |
| 130 | The relation between spasticity and muscle behavior during the swing phase of gait in children with cerebral palsy. <i>Research in Developmental Disabilities</i> , 2014, 35, 3354-3364. | 1.2 | 44 |
| 131 | A clinical decision framework for the identification of main problems and treatment goals for ambulant children with bilateral spastic cerebral palsy. <i>Research in Developmental Disabilities</i> , 2014, 35, 1160-1176. | 1.2 | 29 |
| 132 | Instrumented assessment of the effect of Botulinum Toxin-A in the medial hamstrings in children with cerebral palsy. <i>Gait and Posture</i> , 2014, 39, 17-22. | 0.6 | 23 |
| 133 | Coordinating arms and legs on a hybrid rehabilitation tricycle: the metabolic benefit of asymmetrical compared to symmetrical arm movements. <i>European Journal of Applied Physiology</i> , 2014, 114, 743-750. | 1.2 | 12 |
| 134 | Can we unmask features of spasticity during gait in children with cerebral palsy by increasing their walking velocity?. <i>Gait and Posture</i> , 2014, 39, 953-957. | 0.6 | 19 |
| 135 | Is an Instrumented Spasticity Assessment an Improvement Over Clinical Spasticity Scales in Assessing and Predicting the Response to Integrated Botulinum Toxin Type A Treatment in Children With Cerebral Palsy?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 515-523. | 0.5 | 40 |
| 136 | A randomized, single-blind cross-over design evaluating the effectiveness of an individually defined, targeted physical therapy approach in treatment of children with cerebral palsy. <i>Clinical Rehabilitation</i> , 2014, 28, 1039-1052. | 1.0 | 17 |
| 137 | Identification of the neural component of torque during manually-applied spasticity assessments in children with cerebral palsy. <i>Gait and Posture</i> , 2014, 40, 346-351. | 0.6 | 33 |
| 138 | Interlimb coordination during forward walking is largely preserved in backward walking in children with cerebral palsy. <i>Clinical Neurophysiology</i> , 2014, 125, 552-561. | 0.7 | 23 |
| 139 | Altered trunk movements during gait in children with spastic diplegia: Compensatory or underlying trunk control deficit?. <i>Research in Developmental Disabilities</i> , 2014, 35, 2044-2052. | 1.2 | 70 |
| 140 | A Novel Device for Standardizing Marker Placement at the Calcaneus. <i>Journal of the American Podiatric Medical Association</i> , 2014, 104, 43-49. | 0.2 | 9 |
| 141 | Randomized Trial of Modified Constraint-Induced Movement Therapy With and Without an Intensive Therapy Program in Children With Unilateral Cerebral Palsy. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 799-807. | 1.4 | 38 |
| 142 | Gait stability in children with Cerebral Palsy. <i>Research in Developmental Disabilities</i> , 2013, 34, 1689-1699. | 1.2 | 43 |
| 143 | Reliability of head and trunk kinematics during gait in children with spastic diplegia. <i>Gait and Posture</i> , 2013, 37, 424-429. | 0.6 | 17 |
| 144 | A systematic review of 3D scapular kinematics and muscle activity during elevation in stroke subjects and controls. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 3-13. | 0.7 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Botulinum toxin A treatment of the lower extremities in children with cerebral palsy. <i>Journal of Children's Orthopaedics</i> , 2013, 7, 383-387. | 0.4 | 47 |
| 146 | Pattern description and reliability parameters of six force-time related indices measured with plantar pressure measurements. <i>Gait and Posture</i> , 2013, 38, 824-829. | 0.6 | 5 |
| 147 | A clinical measurement to quantify spasticity in children with cerebral palsy by integration of multidimensional signals. <i>Gait and Posture</i> , 2013, 38, 141-147. | 0.6 | 113 |
| 148 | Three-dimensional head and trunk movement characteristics during gait in children with spastic diplegia. <i>Gait and Posture</i> , 2013, 38, 770-776. | 0.6 | 60 |
| 149 | Lower limb functioning and its impact on quality of life in ambulatory children with cerebral palsy. <i>European Journal of Paediatric Neurology</i> , 2013, 17, 561-567. | 0.7 | 18 |
| 150 | Comprehensive quantification of the spastic catch in children with cerebral palsy. <i>Research in Developmental Disabilities</i> , 2013, 34, 386-396. | 1.2 | 29 |
| 151 | Clinical characteristics of impaired trunk control in children with spastic cerebral palsy. <i>Research in Developmental Disabilities</i> , 2013, 34, 327-334. | 1.2 | 84 |
| 152 | Does somatosensory discrimination activate different brain areas in children with unilateral cerebral palsy compared to typically developing children? An fMRI study. <i>Research in Developmental Disabilities</i> , 2013, 34, 1710-1720. | 1.2 | 18 |
| 153 | Comparison of foot segmental mobility and coupling during gait between patients with diabetes mellitus with and without neuropathy and adults without diabetes. <i>Clinical Biomechanics</i> , 2013, 28, 813-819. | 0.5 | 36 |
| 154 | Challenges of instrumented spasticity assessment. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 586-587. | 1.1 | 2 |
| 155 | Three-Dimensional Knee Kinematics by Conventional Gait Analysis for Eleven Motor Tasks of Daily Living: Typical Patterns and Repeatability. <i>Journal of Applied Biomechanics</i> , 2013, 29, 214-228. | 0.3 | 5 |
| 156 | Head-pelvis coupling is increased during turning in patients with Parkinson's disease and freezing of gait. <i>Movement Disorders</i> , 2013, 28, 619-625. | 2.2 | 53 |
| 157 | Interlimb Coordination during Forward and Backward Walking in Primary School-Aged Children. <i>PLoS ONE</i> , 2013, 8, e62747. | 1.1 | 13 |
| 158 | Classification of Forefoot Plantar Pressure Distribution in Persons with Diabetes: A Novel Perspective for the Mechanical Management of Diabetic Foot?. <i>PLoS ONE</i> , 2013, 8, e79924. | 1.1 | 36 |
| 159 | Dynamic Scapular Movement Analysis: Is It Feasible and Reliable in Stroke Patients during Arm Elevation?. <i>PLoS ONE</i> , 2013, 8, e79046. | 1.1 | 14 |
| 160 | Test-Retest Reliability of Innovated Strength Tests for Hip Muscles. <i>PLoS ONE</i> , 2013, 8, e81149. | 1.1 | 48 |
| 161 | The evidence-base for conceptual approaches and additional therapies targeting lower limb function in children with cerebral palsy: A systematic review using the ICF as a framework. <i>Journal of Rehabilitation Medicine</i> , 2012, 44, 396-405. | 0.8 | 48 |
| 162 | The evidence-base for basic physical therapy techniques targeting lower limb function in children with cerebral palsy: A systematic review using the International Classification of Functioning, Disability and Health as a conceptual framework. <i>Journal of Rehabilitation Medicine</i> , 2012, 44, 385-395. | 0.8 | 94 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Increased mechanical cost of walking in children with diplegia: The role of the passenger unit cannot be neglected. <i>Research in Developmental Disabilities</i> , 2012, 33, 1996-2003. | 1.2 | 29 |
| 164 | To what extent is mean EMG frequency during gait a reflection of functional muscle strength in children with cerebral palsy?. <i>Research in Developmental Disabilities</i> , 2012, 33, 916-923. | 1.2 | 13 |
| 165 | Is interlimb coordination during walking preserved in children with cerebral palsy?. <i>Research in Developmental Disabilities</i> , 2012, 33, 1418-1428. | 1.2 | 59 |
| 166 | Turning and unilateral cueing in Parkinson's disease patients with and without freezing of gait. <i>Neuroscience</i> , 2012, 207, 298-306. | 1.1 | 81 |
| 167 | Mechanical energy estimation during walking: Validity and sensitivity in typical gait and in children with cerebral palsy. <i>Gait and Posture</i> , 2012, 35, 231-237. | 0.6 | 14 |
| 168 | Repeatability in the assessment of multi-segment foot kinematics. <i>Gait and Posture</i> , 2012, 35, 255-260. | 0.6 | 44 |
| 169 | Altered arm posture in children with cerebral palsy is related to instability during walking. <i>European Journal of Paediatric Neurology</i> , 2012, 16, 528-535. | 0.7 | 46 |
| 170 | Repeatability of a 3D multi-segment foot model protocol in presence of foot deformities. <i>Gait and Posture</i> , 2012, 36, 635-638. | 0.6 | 36 |
| 171 | Botulinum toxin type A treatment in children with cerebral palsy: Evaluation of treatment success or failure by means of goal attainment scaling. <i>European Journal of Paediatric Neurology</i> , 2012, 16, 229-236. | 0.7 | 18 |
| 172 | The effect of different physiotherapy interventions in post-BTX-A treatment of children with cerebral palsy. <i>European Journal of Paediatric Neurology</i> , 2012, 16, 20-28. | 0.7 | 21 |
| 173 | Age-related changes in kinematics of the knee joint during deep squat. <i>Knee</i> , 2012, 19, 208-212. | 0.8 | 26 |
| 174 | Calculating gait kinematics using MR-based kinematic models. <i>Gait and Posture</i> , 2011, 33, 158-164. | 0.6 | 60 |
| 175 | Upper limb kinematics: Development and reliability of a clinical protocol for children. <i>Gait and Posture</i> , 2011, 33, 279-285. | 0.6 | 92 |
| 176 | Body of evidence supporting the clinical use of 3D multisegment foot models: A systematic review. <i>Gait and Posture</i> , 2011, 33, 338-349. | 0.6 | 133 |
| 177 | The reliability of upper limb kinematics in children with hemiplegic cerebral palsy. <i>Gait and Posture</i> , 2011, 33, 568-575. | 0.6 | 79 |
| 178 | The Arm Profile Score: A new summary index to assess upper limb movement pathology. <i>Gait and Posture</i> , 2011, 34, 227-233. | 0.6 | 56 |
| 179 | Arm swing during walking at different speeds in children with Cerebral Palsy and typically developing children. <i>Research in Developmental Disabilities</i> , 2011, 32, 1957-1964. | 1.2 | 65 |
| 180 | Control of angular momentum during walking in children with cerebral palsy. <i>Research in Developmental Disabilities</i> , 2011, 32, 2860-2866. | 1.2 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | A clinical tool to measure trunk control in children with cerebral palsy: The Trunk Control Measurement Scale. <i>Research in Developmental Disabilities</i> , 2011, 32, 2624-2635. | 1.2 | 126 |
| 182 | Probabilistic gait classification in children with cerebral palsy: A Bayesian approach. <i>Research in Developmental Disabilities</i> , 2011, 32, 2542-2552. | 1.2 | 35 |
| 183 | Three-dimensional upper limb movement characteristics in children with hemiplegic cerebral palsy and typically developing children. <i>Research in Developmental Disabilities</i> , 2011, 32, 2283-2294. | 1.2 | 86 |
| 184 | Tibial rotation in single- and double-bundle ACL reconstruction: a kinematic 3-D in vivo analysis. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 115-121. | 2.3 | 32 |
| 185 | Level of subject-specific detail in musculoskeletal models affects hip moment arm length calculation during gait in pediatric subjects with increased femoral anteversion. <i>Journal of Biomechanics</i> , 2011, 44, 1346-1353. | 0.9 | 62 |
| 186 | The use of botulinum toxin A in children with cerebral palsy, with a focus on the lower limb. <i>Journal of Children's Orthopaedics</i> , 2010, 4, 183-195. | 0.4 | 89 |
| 187 | Relation between neuroradiological findings and upper limb function in hemiplegic cerebral palsy. <i>European Journal of Paediatric Neurology</i> , 2010, 14, 169-177. | 0.7 | 62 |
| 188 | The updated European Consensus 2009 on the use of Botulinum toxin for children with cerebral palsy. <i>European Journal of Paediatric Neurology</i> , 2010, 14, 45-66. | 0.7 | 219 |
| 189 | The effect of individually defined physiotherapy in children with cerebral palsy (CP). <i>European Journal of Paediatric Neurology</i> , 2010, 14, 519-525. | 0.7 | 22 |
| 190 | Freezing of gait in Parkinson's disease: The impact of dual-tasking and turning. <i>Movement Disorders</i> , 2010, 25, 2563-2570. | 2.2 | 279 |
| 191 | Botulinum toxin assessment, intervention and after-care for lower limb spasticity in children with cerebral palsy: international consensus statement. <i>European Journal of Neurology</i> , 2010, 17, 9-37. | 1.7 | 214 |
| 192 | Rating scales for dystonia in cerebral palsy: reliability and validity. <i>Developmental Medicine and Child Neurology</i> , 2010, 52, 570-575. | 1.1 | 70 |
| 193 | Age-related changes in mechanical and metabolic energy during typical gait. <i>Gait and Posture</i> , 2010, 31, 495-501. | 0.6 | 27 |
| 194 | The impact of hallux valgus on foot kinematics: A cross-sectional, comparative study. <i>Gait and Posture</i> , 2010, 32, 102-106. | 0.6 | 93 |
| 195 | Range of motion and repeatability of knee kinematics for 11 clinically relevant motor tasks. <i>Gait and Posture</i> , 2010, 32, 597-602. | 0.6 | 31 |
| 196 | Upper limb motor and sensory impairments in children with hemiplegic cerebral palsy. Can they be measured reliably?. <i>Disability and Rehabilitation</i> , 2010, 32, 409-416. | 0.9 | 126 |
| 197 | Long-term use of botulinum toxin type A in children with cerebral palsy: Treatment consistency. <i>European Journal of Paediatric Neurology</i> , 2009, 13, 421-429. | 0.7 | 38 |
| 198 | Inter- and intra-observer reliability of masking in plantar pressure measurement analysis. <i>Gait and Posture</i> , 2009, 30, 379-382. | 0.6 | 43 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Review of quantitative measurements of upper limb movements in hemiplegic cerebral palsy. <i>Gait and Posture</i> , 2009, 30, 395-404. | 0.6 | 89 |
| 200 | The effect of different physiotherapy interventions in post-BTX-A treatment of children with cerebral palsy. <i>Gait and Posture</i> , 2009, 30, S10-S11. | 0.6 | 0 |
| 201 | The influence of the functional level of children with CP on the success rate for BTX-A treatment, defined by the goal attainment scale. <i>Gait and Posture</i> , 2009, 30, S102. | 0.6 | 1 |
| 202 | Effect of dynamic orthoses on gait: a retrospective control study in children with hemiplegia. <i>Developmental Medicine and Child Neurology</i> , 2008, 50, 63-67. | 1.1 | 38 |
| 203 | Comparison of the Melbourne Assessment of Unilateral Upper Limb Function and the Quality of Upper Extremity Skills Test in hemiplegic CP. <i>Developmental Medicine and Child Neurology</i> , 2008, 50, 904-909. | 1.1 | 69 |
| 204 | Motor function following multilevel botulinum toxin type A treatment in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2007, 49, 56-61. | 1.1 | 52 |
| 205 | Turning in Parkinson's disease patients and controls: The effect of auditory cues. <i>Movement Disorders</i> , 2007, 22, 1871-1878. | 2.2 | 87 |
| 206 | Does freezing in Parkinson's disease change limb coordination?. <i>Journal of Neurology</i> , 2007, 254, 1268-1277. | 1.8 | 66 |
| 207 | The use of rhythmic auditory cues to influence gait in patients with Parkinson's disease, the differential effect for freezers and non-freezers, an explorative study. <i>Disability and Rehabilitation</i> , 2006, 28, 721-728. | 0.9 | 159 |
| 208 | Musculo-tendon length and lengthening velocity of rectus femoris in stiff knee gait. <i>Gait and Posture</i> , 2006, 23, 222-229. | 0.6 | 34 |
| 209 | Do dynamic and static clinical measurements correlate with gait analysis parameters in children with cerebral palsy?. <i>Gait and Posture</i> , 2006, 24, 302-313. | 0.6 | 174 |
| 210 | How can push-off be preserved during use of an ankle foot orthosis in children with hemiplegia? A prospective controlled study. <i>Gait and Posture</i> , 2006, 24, 142-151. | 0.6 | 122 |
| 211 | Can gait efficiency be fully normalized in healthy growing boys and girls?. <i>Gait and Posture</i> , 2006, 24, S200-S201. | 0.6 | 1 |
| 212 | European consensus table 2006 on botulinum toxin for children with cerebral palsy. <i>European Journal of Paediatric Neurology</i> , 2006, 10, 215-225. | 0.7 | 89 |
| 213 | The Effects of Quantitative Gait Assessment and Botulinum Toxin A on Musculoskeletal Surgery in Children with Cerebral Palsy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 161. | 1.4 | 66 |
| 214 | THE EFFECTS OF QUANTITATIVE GAIT ASSESSMENT AND BOTULINUM TOXIN A ON MUSCULOSKELETAL SURGERY IN CHILDREN WITH CEREBRAL PALSY. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 161-170. | 1.4 | 9 |
| 215 | Pathophysiology, Measurement, and Treatment of Spasticity in Children. <i>Neuromodulation</i> , 2005, 8, 187-189. | 0.4 | 2 |
| 216 | Quantitative Gait Analysis in Parkinson's Disease: Comparison With a Healthy Control Group. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 1007-1013. | 0.5 | 270 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Electromyographic profiles of gait prior to onset of freezing episodes in patients with Parkinson's disease. <i>Brain</i> , 2004, 127, 1650-1660. | 3.7 | 196 |
| 218 | Rearfoot Kinematics during Initial Takeoff of Elite High Jumpers: Estimation of Spatial Position and Orientation of Subtalar Axis. <i>Journal of Applied Biomechanics</i> , 2003, 19, 13-27. | 0.3 | 6 |
| 219 | Vibration-Induced Changes in EMG During Human Locomotion. <i>Journal of Neurophysiology</i> , 2003, 89, 1299-1307. | 0.9 | 45 |
| 220 | Effects of tendon vibration on the spatiotemporal characteristics of human locomotion. <i>Experimental Brain Research</i> , 2002, 143, 231-239. | 0.7 | 54 |
| 221 | A randomized study of combined botulinum toxin type A and casting in the ambulant child with cerebral palsy using objective outcome measures. <i>European Journal of Neurology</i> , 2001, 8, 75-87. | 1.7 | 130 |
| 222 | Abnormalities of the spatiotemporal characteristics of gait at the onset of freezing in Parkinson's disease. <i>Movement Disorders</i> , 2001, 16, 1066-1075. | 2.2 | 274 |
| 223 | Single event multilevel botulinum toxin type A treatment and surgery: similarities and differences. <i>European Journal of Neurology</i> , 2001, 8, 88-97. | 1.7 | 56 |
| 224 | Gait Analysis in Myelomeningocele: Possibilities and Applications. <i>Journal of Pediatric Orthopaedics Part B</i> , 2000, 9, 170-179. | 0.3 | 13 |
| 225 | Botulinum toxin type A treatment of cerebral palsy: an integrated approach. <i>European Journal of Neurology</i> , 1999, 6, s51. | 1.7 | 57 |
| 226 | A multilevel approach to botulinum toxin type A treatment of the (ilio)psoas in spasticity in cerebral palsy. <i>European Journal of Neurology</i> , 1999, 6, s59-s62. | 1.7 | 39 |