

Mickael Begon

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

2,367
citations

293460

24
h-index

355658

38
g-index

160
all docs

160
docs citations

160
times ranked

2077
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Bioptim, a Python Framework for Musculoskeletal Optimal Control in Biomechanics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 321-332. | 5.9 | 6 |
| 2 | Effect of Expertise on Shoulder and Upper Limb Kinematics, Electromyography, and Estimated Muscle Forces During a Lifting Task. Human Factors, 2022, 64, 800-819. | 2.1 | 6 |
| 3 | Shoulder electromyography-based indicators to assess manifestation of muscle fatigue during laboratory-simulated manual handling task. Ergonomics, 2022, 65, 118-133. | 1.1 | 10 |
| 4 | Understanding the role of foot biomechanics on regional foot orthosis deformation in flatfoot individuals during walking. Gait and Posture, 2022, 91, 117-125. | 0.6 | 9 |
| 5 | Reliability of the kinematic theory parameters during handwriting tasks on a vertical setup. Biomedical Signal Processing and Control, 2022, 71, 103157. | 3.5 | 2 |
| 6 | Effect of 3D printed foot orthoses stiffness on muscle activity and plantar pressures in individuals with flexible flatfeet: A statistical non-parametric mapping study. Clinical Biomechanics, 2022, 92, 105553. | 0.5 | 5 |
| 7 | Numerical homogenization of a linearly elastic honeycomb lattice structure and comparison with analytical and experimental results. Mechanics of Materials, 2022, 167, 104210. | 1.7 | 16 |
| 8 | Optimal forward twisting pike somersault without self-collision. Sports Biomechanics, 2022, , 1-18. | 0.8 | 1 |
| 9 | Computationally efficient model to predict the deformations of a cellular foot orthotic. Computers in Biology and Medicine, 2022, 146, 105532. | 3.9 | 3 |
| 10 | Moment arms of the deltoid, infraspinatus and teres minor muscles for movements with high range of motion: A cadaveric study. Clinical Biomechanics, 2022, 97, 105685. | 0.5 | 0 |
| 11 | Alterations in scapulothoracic and humerothoracic kinematics during the tennis serve in adolescent players with a history of shoulder problems. Sports Biomechanics, 2021, 20, 165-177. | 0.8 | 7 |
| 12 | Optimal 3D arm strategies for maximizing twist rotation during somersault of a rigid-body model. Multibody System Dynamics, 2021, 52, 193-209. | 1.7 | 11 |
| 13 | Intra- and inter-tester reliability of spasticity assessment in standing position in children and adolescents with cerebral palsy using a paediatric exoskeleton. Disability and Rehabilitation, 2021, 43, 1001-1007. | 0.9 | 6 |
| 14 | biorbd: A C++, Python and MATLAB library to analyze and simulate the human body biomechanics. Journal of Open Source Software, 2021, 6, 2562. | 2.0 | 14 |
| 15 | ezc3d: An easy C3D file I/O cross-platform solution for C++, Python and MATLAB. Journal of Open Source Software, 2021, 6, 2911. | 2.0 | 4 |
| 16 | Real-Time and Dynamically Consistent Estimation of Muscle Forces Using a Moving Horizon EMG-Marker Tracking Algorithm Application to Upper Limb Biomechanics. Frontiers in Bioengineering and Biotechnology, 2021, 9, 642742. | 2.0 | 11 |
| 17 | Exhausting repetitive piano tasks lead to local forearm manifestation of muscle fatigue and negatively affect musical parameters. Scientific Reports, 2021, 11, 8117. | 1.6 | 19 |
| 18 | Anti-pronator components are essential to effectively alter lower-limb kinematics and kinetics in individuals with flexible flatfeet. Clinical Biomechanics, 2021, 86, 105390. | 0.5 | 13 |

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|----|---|-----|-----------|
| 19 | The Effects of Knee Flexion on Tennis Serve Performance of Intermediate Level Tennis Players. <i>Sensors</i> , 2021, 21, 5254. | 2.1 | 3 |
| 20 | How Do Violinists Adapt to Dynamic Assistive Support? A Study Focusing on Kinematics, Muscle Activity, and Musical Performance. <i>Human Factors</i> , 2021, , 001872082110334. | 2.1 | 4 |
| 21 | Proximal-to-Distal Sequences of Attack and Release Movements of Expert Pianists during Pressed-Staccato Keystrokes. <i>Journal of Motor Behavior</i> , 2021, , 1-11. | 0.5 | 6 |
| 22 | Glenohumeral joint and muscles functions during a lifting task. <i>Journal of Biomechanics</i> , 2021, 126, 110641. | 0.9 | 6 |
| 23 | Closed-loop multibody kinematic optimization coupled with double calibration improves scapular kinematic estimates in asymptomatic population. <i>Journal of Biomechanics</i> , 2021, 126, 110653. | 0.9 | 4 |
| 24 | Effect of Bow Camber and Mass Distribution on Violinists' Preferences and Performance. <i>Frontiers in Psychology</i> , 2021, 12, 769831. | 1.1 | 0 |
| 25 | Does Reducing Sedentary With Standing Desks Hinder Cognitive Performance?. <i>Human Factors</i> , 2020, 62, 603-612. | 2.1 | 8 |
| 26 | Can foot orthoses impose different gait features based on geometrical design in healthy subjects? A systematic review and meta-analysis. <i>Foot</i> , 2020, 42, 101646. | 0.4 | 12 |
| 27 | Effect of 3D printed foot orthoses stiffness and design on foot kinematics and plantar pressures in healthy people. <i>Gait and Posture</i> , 2020, 81, 247-253. | 0.6 | 19 |
| 28 | Time history of upper-limb muscle activity during isolated piano keystrokes. <i>Journal of Electromyography and Kinesiology</i> , 2020, 54, 102459. | 0.7 | 8 |
| 29 | Effect of low dose robotic-gait training on walking capacity in children and adolescents with cerebral palsy. <i>Neurophysiologie Clinique</i> , 2020, 50, 507-519. | 1.0 | 26 |
| 30 | Influence of glenohumeral joint muscle insertion on moment arms using a finite element model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1117-1126. | 0.9 | 5 |
| 31 | Shoulder muscle activation strategies differ when lifting or lowering a load. <i>European Journal of Applied Physiology</i> , 2020, 120, 2417-2429. | 1.2 | 5 |
| 32 | Optimal Control as a Tool for Innovation in Aerial Twisting on a Trampoline. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8363. | 1.3 | 4 |
| 33 | Two efficient static optimization algorithms that account for muscle-tendon equilibrium: approaching the constraint Jacobian via a constant or a cubic spline function. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 703-709. | 0.9 | 3 |
| 34 | Predicting foot orthosis deformation based on its contour kinematics during walking. <i>PLoS ONE</i> , 2020, 15, e0232677. | 1.1 | 4 |
| 35 | EMG-Assisted Algorithm to Account for Shoulder Muscles Co-Contraction in Overhead Manual Handling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3522. | 1.3 | 12 |
| 36 | Central and Peripheral Shoulder Fatigue Pre-screening Using the Sigma-Lognormal Model: A Proof of Concept. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 171. | 1.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Effects of Trunk Motion, Touch, and Articulation on Upper-Limb Velocities and on Joint Contribution to Endpoint Velocities During the Production of Loud Piano Tones. <i>Frontiers in Psychology</i> , 2020, 11, 1159. | 1.1 | 17 |
| 38 | Sex differences in upper limb musculoskeletal biomechanics during a lifting task. <i>Applied Ergonomics</i> , 2020, 86, 103106. | 1.7 | 15 |
| 39 | pyomeca: An Open-Source Framework for Biomechanical Analysis. <i>Journal of Open Source Software</i> , 2020, 5, 2431. | 2.0 | 8 |
| 40 | Muscle activation profiles based on the proportionality hypothesis of the Kinematic Theory of Human Movements. , 2020, , . | | 0 |
| 41 | Predicting foot orthosis deformation based on its contour kinematics during walking. , 2020, 15, e0232677. | | 0 |
| 42 | Predicting foot orthosis deformation based on its contour kinematics during walking. , 2020, 15, e0232677. | | 0 |
| 43 | Predicting foot orthosis deformation based on its contour kinematics during walking. , 2020, 15, e0232677. | | 0 |
| 44 | Predicting foot orthosis deformation based on its contour kinematics during walking. , 2020, 15, e0232677. | | 0 |
| 45 | The effect of intracortical bone pin on shoulder kinematics during dynamic activities. <i>International Biomechanics</i> , 2019, 6, 47-53. | 0.9 | 2 |
| 46 | Sex differences in glenohumeral muscle activation and coactivation during a box lifting task. <i>Ergonomics</i> , 2019, 62, 1327-1338. | 1.1 | 10 |
| 47 | Motion analysis and modeling of the shoulder. , 2019, , 261-271. | | 1 |
| 48 | Health and productivity at work: which active workstation for which benefits: a systematic review. <i>Occupational and Environmental Medicine</i> , 2019, 76, 281-294. | 1.3 | 33 |
| 49 | Sex differences in upper limb 3D joint contributions during a lifting task. <i>Ergonomics</i> , 2019, 62, 682-693. | 1.1 | 12 |
| 50 | An Optimization Method Tracking EMG, Ground Reactions Forces, and Marker Trajectories for Musculo-Tendon Forces Estimation in Equinus Gait. <i>Frontiers in Neurobotics</i> , 2019, 13, 48. | 1.6 | 14 |
| 51 | Sensitivity of Shoulder Musculoskeletal Model Predictions to Muscleâ€™Tendon Properties. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1309-1317. | 2.5 | 7 |
| 52 | Test-retest reliability of a hip strength assessment system in varsity soccer players. <i>Physical Therapy in Sport</i> , 2019, 37, 138-143. | 0.8 | 27 |
| 53 | Use of Active Workstations in Individuals with Overweight or Obesity: A Systematic Review. <i>Obesity</i> , 2019, 27, 362-379. | 1.5 | 18 |
| 54 | Evaluation of ligament laxity during pregnancy. <i>Journal of Gynecology Obstetrics and Human Reproduction</i> , 2019, 48, 351-357. | 0.6 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Lower Trapezius Weakness and Shoulder Complex Biomechanics during the Tennis Serve. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 2531-2539. | 0.2 | 6 |
| 56 | Reliability of maximum isometric hip and knee torque measurements in children with cerebral palsy using a paediatric exoskeleton "Lokomat". <i>Neurophysiologie Clinique</i> , 2019, 49, 335-342. | 1.0 | 12 |
| 57 | Cluster analysis using physical performance and self-report measures to identify shoulder injury in overhead female athletes. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, 269-274. | 0.6 | 13 |
| 58 | Lower limb extension is improved in fast walking condition in children who walk in crouch gait. <i>Disability and Rehabilitation</i> , 2019, 41, 3210-3215. | 0.9 | 8 |
| 59 | Do relevant shear forces appear in isokinetic shoulder testing to be implemented in biomechanical models?. <i>Journal of Biomechanics</i> , 2018, 72, 241-246. | 0.9 | 2 |
| 60 | Which data should be tracked in forward-dynamic optimisation to best predict muscle forces in a pathological co-contraction case?. <i>Journal of Biomechanics</i> , 2018, 68, 99-106. | 0.9 | 9 |
| 61 | Shoulder range of motion and strength in young competitive tennis players with and without history of shoulder problems. <i>Physical Therapy in Sport</i> , 2018, 31, 22-28. | 0.8 | 16 |
| 62 | Muscle recruitment patterns of the subscapularis, serratus anterior and other shoulder girdle muscles during isokinetic internal and external rotations. <i>Journal of Sports Sciences</i> , 2018, 36, 985-993. | 1.0 | 21 |
| 63 | Influence of Shoulder Kinematic Estimate on Joint and Muscle Mechanics Predicted by Musculoskeletal Model. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 715-722. | 2.5 | 21 |
| 64 | Classification of upper limb disability levels of children with spastic unilateral cerebral palsy using K-means algorithm. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 49-59. | 1.6 | 8 |
| 65 | Effects of Self-Myofascial Release on Shoulder Function and Perception in Adolescent Tennis Players. <i>Journal of Sport Rehabilitation</i> , 2018, 27, 530-535. | 0.4 | 21 |
| 66 | Multibody Kinematics Optimization for the Estimation of Upper and Lower Limb Human Joint Kinematics: A Systematized Methodological Review. <i>Journal of Biomechanical Engineering</i> , 2018, 140, . | 0.6 | 56 |
| 67 | An EMG-marker tracking optimisation method for estimating muscle forces. <i>Multibody System Dynamics</i> , 2018, 42, 119-143. | 1.7 | 17 |
| 68 | Effect of foot orthosis design on lower limb joint kinematics and kinetics during walking in flexible pes planovalgus: A systematic review and meta-analysis. <i>Clinical Biomechanics</i> , 2018, 59, 117-129. | 0.5 | 57 |
| 69 | Implementation of Active Workstations in University Libraries" A Comparison of Portable Pedal Exercise Machines and Standing Desks. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1242. | 1.2 | 11 |
| 70 | Sex differences in kinematic adaptations to muscle fatigue induced by repetitive upper limb movements. <i>Biology of Sex Differences</i> , 2018, 9, 17. | 1.8 | 34 |
| 71 | Effect of the phase of force production on corticomuscular coherence with agonist and antagonist muscles. <i>European Journal of Neuroscience</i> , 2018, 48, 3288-3298. | 1.2 | 13 |
| 72 | Changes in movement variability and task performance during a fatiguing repetitive pointing task. <i>Journal of Biomechanics</i> , 2018, 76, 212-219. | 0.9 | 48 |

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|----|---|-----|-----------|
| 73 | Adaptive Alterations in Shoulder Range of Motion and Strength in Young Tennis Players. <i>Journal of Athletic Training</i> , 2017, 52, 137-144. | 0.9 | 37 |
| 74 | Standardization proposal of soft tissue artefact description for data sharing in human motion measurements. <i>Journal of Biomechanics</i> , 2017, 62, 5-13. | 0.9 | 65 |
| 75 | Effect of various upper limb multibody models on soft tissue artefact correction: A case study. <i>Journal of Biomechanics</i> , 2017, 62, 102-109. | 0.9 | 24 |
| 76 | Comparison between line and surface mesh models to represent the rotator cuff muscle geometry in musculoskeletal models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1175-1181. | 0.9 | 9 |
| 77 | Use of electromyography to optimize Lokomat Â® settings for subject-specific gait rehabilitation in post-stroke hemiparetic patients: A proof-of-concept study. <i>Neurophysiologie Clinique</i> , 2017, 47, 293-299. | 1.0 | 12 |
| 78 | Kinematic models of the upper limb joints for multibody kinematics optimisation: An overview. <i>Journal of Biomechanics</i> , 2017, 62, 87-94. | 0.9 | 60 |
| 79 | Comparison of rotation tensor extracted from affine approximation and least square optimization. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, S49-S50. | 0.9 | 0 |
| 80 | Muscular activity variations of the right bowing arm of the violin player. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, S71-S72. | 0.9 | 5 |
| 81 | Scapulohumeral rhythm in young tennis players. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, S93-S94. | 0.9 | 1 |
| 82 | Multibody kinematics optimization with marker projection improves the accuracy of the humerus rotational kinematics. <i>Journal of Biomechanics</i> , 2017, 62, 117-123. | 0.9 | 12 |
| 83 | Main component of soft tissue artifact of the upper-limbs with respect to different functional, daily life and sports movements. <i>Journal of Biomechanics</i> , 2017, 62, 39-46. | 0.9 | 24 |
| 84 | Methodology to Customize Maximal Isometric Forces for Hill-Type Muscle Models. <i>Journal of Applied Biomechanics</i> , 2017, 33, 80-86. | 0.3 | 4 |
| 85 | Squatphy: Assessing squats with low-cost technologies. , 2017, , . | | 1 |
| 86 | A serious game for gait rehabilitation with the Lokomat. , 2017, , . | | 6 |
| 87 | Urban legends in gait analysis. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2017, , 5-11. | 0.2 | 0 |
| 88 | Identification of the contribution of contact and aerial biomechanical parameters in acrobatic performance. <i>PLoS ONE</i> , 2017, 12, e0172083. | 1.1 | 7 |
| 89 | Muscle function in glenohumeral joint stability during lifting task. <i>PLoS ONE</i> , 2017, 12, e0189406. | 1.1 | 21 |
| 90 | Scapular kinematic reconstruction " segmental optimization, multibody optimization with open-loop or closed-loop chains: which one should be preferred?. <i>International Biomechanics</i> , 2017, 4, 86-94. | 0.9 | 14 |

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|-----|---|-----|-----------|
| 91 | Scapulohumeral rhythm relative to active range of motion in patients with symptomatic rotator cuff tears. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 1616-1622. | 1.2 | 17 |
| 92 | Effect of wobbling mass modeling on joint dynamics during human movements with impacts. <i>Multibody System Dynamics</i> , 2016, 38, 345-366. | 1.7 | 8 |
| 93 | Graphical User Interface to Identify Optimal Combinations of Isometric Normalization Tests for the Production of Maximum Voluntary Activation of the Shoulder Muscles. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, 1597-1598. | 0.5 | 0 |
| 94 | Intra- and Intersession Reliability of Surface Electromyography on Muscles Actuating the Forearm During Maximum Voluntary Contractions. <i>Journal of Applied Biomechanics</i> , 2016, 32, 558-570. | 0.3 | 15 |
| 95 | Determining in vivo sternoclavicular, acromioclavicular and glenohumeral joint centre locations from skin markers, CT-scans and intracortical pins: A comparison study. <i>Medical Engineering and Physics</i> , 2016, 38, 290-296. | 0.8 | 29 |
| 96 | Optimal Combinations of Isometric Normalization Tests for the Production of Maximum Voluntary Activation of the Shoulder Muscles. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, 1542-1551.e2. | 0.5 | 26 |
| 97 | Distance between rotator cuff footprints and the acromion, coracoacromial ligament, and coracoid process during dynamic arm elevations: Preliminary observations. <i>Manual Therapy</i> , 2016, 25, 94-99. | 1.6 | 6 |
| 98 | The effects of plane and arc of elevation on electromyography of shoulder musculature in patients with rotator cuff tears. <i>Clinical Biomechanics</i> , 2016, 32, 194-200. | 0.5 | 6 |
| 99 | A chain kinematic model to assess the movement of lower-limb including wobbling masses. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 707-716. | 0.9 | 11 |
| 100 | Glenohumeral joint kinematics measured by intracortical pins, reflective markers, and computed tomography: A novel technique to assess acromiohumeral distance. <i>Journal of Electromyography and Kinesiology</i> , 2016, 29, 4-11. | 0.7 | 11 |
| 101 | Local versus global optimal sports techniques in a group of athletes. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 829-838. | 0.9 | 8 |
| 102 | Glenohumeral translations during range-of-motion movements, activities of daily living, and sports activities in healthy participants. <i>Clinical Biomechanics</i> , 2015, 30, 1002-1007. | 0.5 | 14 |
| 103 | Superficial shoulder muscle co-activations during lifting tasks: Influence of lifting height, weight and phase. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 355-362. | 0.7 | 27 |
| 104 | Three-dimensional vertebral wedging and pelvic asymmetries in the early stages of adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2015, 15, 477-486. | 0.6 | 16 |
| 105 | Effects of frontal and sagittal thorax attitudes in gait on trunk and pelvis three-dimensional kinematics. <i>Medical Engineering and Physics</i> , 2015, 37, 1032-1036. | 0.8 | 7 |
| 106 | Mechanical risk of rotator cuff repair failure during passive movements: A simulation-based study. <i>Clinical Biomechanics</i> , 2015, 30, 1181-1188. | 0.5 | 2 |
| 107 | Shoulder Coordination During Full-Can and Empty-Can Rehabilitation Exercises. <i>Journal of Athletic Training</i> , 2015, 50, 1117-1125. | 0.9 | 9 |
| 108 | Comparison and validation of five scapulothoracic models for correcting soft tissue artefact through multibody optimisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 2014-2015. | 0.9 | 5 |

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|-----|--|-----|-----------|
| 109 | 3D shoulder kinematics for static vs dynamic and passive vs active testing conditions. Journal of Biomechanics, 2015, 48, 2976-2983. | 0.9 | 8 |
| 110 | Can optimal marker weightings improve thoracohumeral kinematics accuracy?. Journal of Biomechanics, 2015, 48, 2019-2025. | 0.9 | 17 |
| 111 | Effects of height and load weight on shoulder muscle work during overhead lifting task. Ergonomics, 2015, 58, 748-761. | 1.1 | 30 |
| 112 | Elucidating the scapulo-humeral rhythm calculation: 3D joint contribution method. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 249-258. | 0.9 | 18 |
| 113 | Refinement of the upper limb joint kinematics and dynamics using a subject-specific closed-loop forearm model. Multibody System Dynamics, 2015, 33, 413-438. | 1.7 | 54 |
| 114 | Measurement and Description of Three-Dimensional Shoulder Range of Motion With Degrees of Freedom Interactions. Journal of Biomechanical Engineering, 2014, 136, . | 0.6 | 32 |
| 115 | Kinematic model and elbow flexion interaction on shoulder range of motion. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 84-85. | 0.9 | 0 |
| 116 | Influence of gait speed on the control of mediolateral dynamic stability during gait initiation. Journal of Biomechanics, 2014, 47, 417-423. | 0.9 | 94 |
| 117 | Estimating joint kinematics of a whole body chain model with closed-loop constraints. Multibody System Dynamics, 2014, 31, 433-449. | 1.7 | 32 |
| 118 | Coupling between 3D displacements and rotations at the glenohumeral joint during dynamic tasks in healthy participants. Clinical Biomechanics, 2014, 29, 1048-1055. | 0.5 | 31 |
| 119 | Can one angle be simply subtracted from another to determine range of motion in three-dimensional motion analysis?. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 507-515. | 0.9 | 17 |
| 120 | Electromyographic activity in the shoulder musculature during resistance training exercises of the ipsilateral upper limb while wearing a shoulder orthosis. Journal of Shoulder and Elbow Surgery, 2014, 23, e140-e148. | 1.2 | 7 |
| 121 | Electromyographic activity in the immobilized shoulder musculature during ipsilateral elbow, wrist, and finger movements while wearing a shoulder orthosis. Journal of Shoulder and Elbow Surgery, 2013, 22, 1400-1407. | 1.2 | 18 |
| 122 | Optimal shoulder immobilization postures following surgical repair of rotator cuff tears: a simulation analysis. Journal of Shoulder and Elbow Surgery, 2013, 22, 1011-1018. | 1.2 | 11 |
| 123 | Estimating optimal shoulder immobilization postures following surgical repair of massive rotator cuff tears. Journal of Biomechanics, 2013, 46, 179-182. | 0.9 | 13 |
| 124 | Segment-embedded frame definition affects the hip joint centre precision during walking. Medical Engineering and Physics, 2013, 35, 1228-1234. | 0.8 | 7 |
| 125 | A numerical approach to assess the soft tissue artefact during human movement analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 59-60. | 0.9 | 0 |
| 126 | Three-Dimensional Vertebral Wedging in Mild and Moderate Adolescent Idiopathic Scoliosis. PLoS ONE, 2013, 8, e71504. | 1.1 | 26 |

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|-----|--|-----|-----------|
| 127 | Pelvic Morphology, Body Posture and Standing Balance Characteristics of Adolescent Able-Bodied and Idiopathic Scoliosis Girls. PLoS ONE, 2013, 8, e70205. | 1.1 | 19 |
| 128 | Effect of Trunk Sagittal Attitude on Shoulder, Thorax and Pelvis Three-Dimensional Kinematics in Able-Bodied Subjects during Gait. PLoS ONE, 2013, 8, e77168. | 1.1 | 15 |
| 129 | Improvements in measuring shoulder joint kinematics. Journal of Biomechanics, 2012, 45, 2180-2183. | 0.9 | 68 |
| 130 | Assessment of reproducibility of thigh marker ranking during walking and landing tasks. Medical Engineering and Physics, 2012, 34, 1200-1208. | 0.8 | 13 |
| 131 | Identifying the criterion spontaneously minimized during the take-off phase of a sub-maximal long jump through optimal synthesis. Multibody System Dynamics, 2012, 28, 225-237. | 1.7 | 4 |
| 132 | Effect of stroke rate on paddle tip path in kayaking. Movement and Sports Sciences - Science Et Motricite, 2012, , 113-120. | 0.2 | 0 |
| 133 | Hip joint center localisation: A biomechanical application to hip arthroplasty population. World Journal of Orthopedics, 2012, 3, 131. | 0.8 | 11 |
| 134 | Determination of optimal placements of markers on the thigh during walking and landing. EPJ Web of Conferences, 2010, 6, 21005. | 0.1 | 1 |
| 135 | Accuracy of 3-D Reconstruction with Occlusions. Journal of Applied Biomechanics, 2010, 26, 104-108. | 0.3 | 2 |
| 136 | Lower limb contribution in kayak performance: modelling, simulation and analysis. Multibody System Dynamics, 2010, 23, 387-400. | 1.7 | 30 |
| 137 | Estimation of the 3D kinematics in kayak using an extended Kalman filter algorithm: a pilot study. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 55-56. | 0.9 | 4 |
| 138 | Effect of foot orthoses on magnitude and timing of rearfoot and tibial motions, ground reaction force and knee moment during running. Journal of Science and Medicine in Sport, 2009, 12, 679-684. | 0.6 | 38 |
| 139 | Measurement of contact forces on a kayak ergometer with a sliding footrest-seat complex. Sports Engineering, 2009, 11, 67-73. | 0.5 | 16 |
| 140 | A method of providing accurate velocity feedback of performance on an instrumented kayak ergometer. Sports Engineering, 2009, 11, 57-65. | 0.5 | 13 |
| 141 | Computation of the 3D kinematics in a global frame over a 40 m-long pathway using a rolling motion analysis system. Journal of Biomechanics, 2009, 42, 2649-2653. | 0.9 | 16 |
| 142 | Effect of hip flexibility on optimal stalker performances on high bar. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 575-583. | 0.9 | 6 |
| 143 | Limitations of Functionally Determined Joint Centers for the Analysis of Athletic Human Movement: A Case Study of the Upper Limb. Journal of Applied Biomechanics, 2009, 25, 281-292. | 0.3 | 6 |
| 144 | Kinematics estimation of straddled movements on high bar from a limited number of skin markers using a chain model. Journal of Biomechanics, 2008, 41, 581-586. | 0.9 | 46 |

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|-----|--|-----|-----------|
| 145 | Forefootâ€‘rearfoot coupling patterns and tibial internal rotation during stance phase of barefoot versus shod running. <i>Clinical Biomechanics</i> , 2007, 22, 74-80. | 0.5 | 90 |
| 146 | Effects of movement for estimating the hip joint centre. <i>Gait and Posture</i> , 2007, 25, 353-359. | 0.6 | 101 |
| 147 | Comparison of the SCoRE and HA methods for locating in vivo the glenohumeral joint centre. <i>Journal of Biomechanics</i> , 2007, 40, 3487-3492. | 0.9 | 54 |
| 148 | Short-Term Effects of Using Verbal Instructions and Demonstration at the Beginning of Learning a Complex Skill in Figure Skating. <i>Perceptual and Motor Skills</i> , 2005, 100, 179-191. | 0.6 | 12 |
| 149 | Solidification procedure adapted to locating joint centre. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 23-24. | 0.9 | 3 |
| 150 | Optimal estimation of complex aerial movements using dynamic optimisation. <i>Sports Biomechanics</i> , 0, , 1-16. | 0.8 | 5 |