# Valentina Camomilla

List of Publications by Year
in descending order

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Version: 2024-02-01

| 63 | 2,037 | 218592 | 243529 |
|---|---|---|---|
| papers | citations | 26 h-index | 44 g-index |

| 67 | 67 | 67 | 2083 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Assessing motor competence in kicking in individuals with Down syndrome through wearable motion sensors. Journal of Intellectual Disability Research, 2022, , . | 1.2 | 3 |
| 2 | Motor Competence in Individuals with Down Syndrome: Is an Improvement Still Possible in Adulthood?. International Journal of Environmental Research and Public Health, 2022, 19, 2157. | 1.2 | 6 |
| 3 | Biomechanics of the Hammer Throw: Narrative Review. Frontiers in Sports and Active Living, 2022, 4, 853536. | 0.9 | 3 |
| 4 | The Use of Wearable Sensors for Preventing, Assessing, and Informing Recovery from Sport-Related Musculoskeletal Injuries: A Systematic Scoping Review. Sensors, 2022, 22, 3225. | 2.1 | 13 |
| 5 | A functional calibration protocol for ankle plantar-dorsiflexion estimate using magnetic and inertial measurement units: Repeatability and reliability assessment. Journal of Biomechanics, 2022, 141, 111202. | 0.9 | 2 |
| 6 | Wearable Sensors in Sports for Persons with Disability: A Systematic Review. Sensors, 2021, 21, 1858. | 2.1 | 37 |
| 7 | Overuse-Related Injuries of the Musculoskeletal System: Systematic Review and Quantitative Synthesis of Injuries, Locations, Risk Factors and Assessment Techniques. Sensors, 2021, 21, 2438. | 2.1 | 10 |
| 8 | Novel technology in sports biomechanics: some words of caution. Sports Biomechanics, 2021, , 1-9. | 0.8 | 32 |
| 9 | SISTINE: Sensorized Socks for Telemonitoring of Vascular Disease Patients. , 2021, , . | | 5 |
| 10 | Experimental study protocol of the project â€œMOtor function and VItamin D: Toolkit for motor performance and risk Assessment (MOVIDA)â€• PLoS ONE, 2021, 16, e0254878. | 1.1 | 0 |
| 11 | Hopping skill in individuals with Down syndrome: A qualitative and quantitative assessment. Human Movement Science, 2021, 78, 102821. | 0.6 | 3 |
| 12 | A joint kinematics driven model of the pelvic soft tissue artefact. Journal of Biomechanics, 2020, 111, 109998. | 0.9 | 2 |
| 13 | Gross Motor Functions Assessed Through The Tgmd-3 In Down Syndrome Individuals And Related Gender Differences. Medicine and Science in Sports and Exercise, 2020, 52, 557-557. | 0.2 | 0 |
| 14 | A wearable gait analysis protocol to support the choice of the appropriate ankle-foot orthosis: A comparative assessment in children with Cerebral Palsy. Clinical Biomechanics, 2019, 70, 177-185. | 0.5 | 10 |
| 15 | Limitations of the European barrier crash testing regulation relating to occupant safety. Accident Analysis and Prevention, 2019, 133, 105239. | 3.0 | 10 |
| 16 | Elbow joint kinematics during cricket bowling using magneto-inertial sensors: A feasibility study. Journal of Sports Sciences, 2019, 37, 515-524. | 1.0 | 15 |
| 17 | Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2018, , 17-45. | | 4 |
| 18 | Trends Supporting the In-Field Use of Wearable Inertial Sensors for Sport Performance Evaluation: A Systematic Review. Sensors, 2018, 18, 873. | 2.1 | 311 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Standardization proposal of soft tissue artefact description for data sharing in human motion measurements. Journal of Biomechanics, 2017, 62, 5-13. | 0.9 | 65 |
| 20 | Soft tissue displacement over pelvic anatomical landmarks during 3-D hip movements. Journal of Biomechanics, 2017, 62, 14-20. | 0.9 | 28 |
| 21 | Bone orientation and position estimation errors using Cosserat point elements and least squares methods: Application to gait. Journal of Biomechanics, 2017, 62, 110-116. | 0.9 | 10 |
| 22 | Joint kinematics estimation using a multi-body kinematics optimisation and an extended Kalman filter, and embedding a soft tissue artefact model. Journal of Biomechanics, 2017, 62, 148-155. | 0.9 | 19 |
| 23 | Human movement analysis: The soft tissue artefact issue. Journal of Biomechanics, 2017, 62, 1-4. | 0.9 | 67 |
| 24 | SIAMOC position paper on gait analysis in clinical practice: General requirements, methods and appropriateness. Results of an Italian consensus conference. Gait and Posture, 2017, 58, 252-260. | 0.6 | 82 |
| 25 | Methodological factors affecting joint moments estimation in clinical gait analysis: a systematic review. BioMedical Engineering OnLine, 2017, 16, 106. | 1.3 | 53 |
| 26 | Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2017, , 1-29. | | 3 |
| 27 | Repeated Kicking Actions in Karate: Effect on Technical Execution in Elite Practitioners. International Journal of Sports Physiology and Performance, 2016, 11, 363-369. | 1.1 | 25 |
| 28 | Modeling the Human Tibiofemoral Joint Using Ex Vivo Determined Compliance Matrices. Journal of Biomechanical Engineering, 2016, 138, 061010. | 0.6 | 4 |
| 29 | Femur, tibia and fibula bone templates to estimate subject-specific knee ligament attachment site locations. Journal of Biomechanics, 2016, 49, 3523-3528. | 0.9 | 7 |
| 30 | Bone Pose Estimation in the Presence of Soft Tissue Artifact Using Triangular Cosserat Point Elements. Annals of Biomedical Engineering, 2016, 44, 1181-1190. | 1.3 | 15 |
| 31 | What Portion of the Soft Tissue Artefact Requires Compensation When Estimating Joint Kinematics?. Journal of Biomechanical Engineering, 2015, 137, 064502. | 0.6 | 25 |
| 32 | A model of the soft tissue artefact rigid component. Journal of Biomechanics, 2015, 48, 1752-1759. | 0.9 | 30 |
| 33 | Rigid and non-rigid geometrical transformations of a marker-cluster and their impact on bone-pose estimation. Journal of Biomechanics, 2015, 48, 4166-4172. | 0.9 | 16 |
| 34 | Agonist and antagonist muscle activation in elite athletes: influence of age. European Journal of Applied Physiology, 2015, 115, 47-56. | 1.2 | 18 |
| 35 | Hip joint centre position estimation using a dual unscented Kalman filter for computer-assisted orthopaedic surgery. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 971-982. | 1.0 | 2 |
| 36 | Intra-limb coordination in karate kicking: Effect of impacting or not impacting a target. Human Movement Science, 2014, 33, 108-119. | 0.6 | 30 |

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|---|---|---|---|
| 37 | A qualitative analysis of soft tissue artefact during running. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 124-125. | 0.9 | 7 |
| 38 | Metrics for Describing Soft-Tissue Artefact and Its Effect on Pose, Size, and Shape of Marker Clusters. IEEE Transactions on Biomedical Engineering, 2014, 61, 362-367. | 2.5 | 40 |
| 39 | Generalized mathematical representation of the soft tissue artefact. Journal of Biomechanics, 2014, 47, 476-481. | 0.9 | 33 |
| 40 | A soft tissue artefact model driven by proximal and distal joint kinematics. Journal of Biomechanics, 2014, 47, 2354-2361. | 0.9 | 40 |
| 41 | A hip joint kinematics driven model for the generation of realistic thigh soft tissue artefacts. Journal of Biomechanics, 2013, 46, 625-630. | 0.9 | 33 |
| 42 | Differences in neuromuscular control between impact and no impact roundhouse kick in athletes of different skill levels. Journal of Electromyography and Kinesiology, 2013, 23, 140-150. | 0.7 | 32 |
| 43 | Trunk Inclination Estimate During the Sprint Start Using an Inertial Measurement Unit: A Validation Study. Journal of Applied Biomechanics, 2013, 29, 622-627. | 0.3 | 48 |
| 44 | Feasibility of incorporating a soft tissue artefact model in multi-body optimisation. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 194-196. | 0.9 | 8 |
| 45 | Estimation of temporal parameters during sprint running using a trunk-mounted inertial measurement unit. Journal of Biomechanics, 2012, 45, 1123-1126. | 0.9 | 90 |
| 46 | Tibio-femoral joint constraints for bone pose estimation during movement using multi-body optimization. Gait and Posture, 2011, 33, 706-711. | 0.6 | 31 |
| 47 | Countermovement jump performance assessment using a wearable 3D inertial measurement unit. Journal of Sports Sciences, 2011, 29, 139-146. | 1.0 | 87 |
| 48 | Neuromuscular control adaptations in elite athletes: the case of top level karateka. European Journal of Applied Physiology, 2010, 108, 1269-1280. | 1.2 | 55 |
| 49 | Poster Session III, July 15th 2010 â€" Abstracts Inertial sensors in sports: application to vertical jumps. Procedia Engineering, 2010, 2, 3489. | 1.2 | 0 |
| 50 | Non-invasive assessment of superficial soft tissue local displacements during movement: A feasibility study. Journal of Biomechanics, 2009, 42, 931-937. | 0.9 | 31 |
| 51 | Hip joint centre location: An ex vivo study. Journal of Biomechanics, 2009, 42, 818-823. | 0.9 | 49 |
| 52 | Estimate of performance correlated parameters in sprint running using a wearable inertial measurement unit. Gait and Posture, 2009, 30, S8. | 0.6 | 0 |
| 53 | Comparison of two variants of a kata technique (unsu): the neuromechanical point of view. Journal of Sports Science and Medicine, 2009, 8, 29-35. | 0.7 | 2 |
| 54 | Anatomical frame identification and reconstruction for repeatable lower limb joint kinematics estimates. Journal of Biomechanics, 2008, 41, 2219-2226. | 0.9 | 27 |

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|---|---|---|---|
| 55 | Enhanced anatomical calibration in human movement analysis. Gait and Posture, 2007, 26, 179-185. | 0.6 | 24 |
| 56 | Propagation of the hip joint centre location error to the estimate of femur vs pelvis orientation using a constrained or an unconstrained approach. Journal of Biomechanics, 2007, 40, 1228-1234. | 0.9 | 22 |
| 57 | Ultrasound for identification of anatomical landmarks in stereophotogrammetry: a new method for the calibration of the probe. Journal of Biomechanics, 2006, 39, S652. | 0.9 | 3 |
| 58 | An optimized protocol for hip joint centre determination using the functional method. Journal of Biomechanics, 2006, 39, 1096-1106. | 0.9 | 218 |
| 59 | Musculoskeletal system modelling for the evaluation of motor disability. Theoretical Issues in Ergonomics Science, 2005, 6, 319-324. | 1.0 | 0 |
| 60 | Estimation of the centre of rotation: a methodological contribution. Journal of Biomechanics, 2004, 37, 413-416. | 0.9 | 18 |
| 61 | Femoral anatomical frame: assessment of various definitions. Medical Engineering and Physics, 2003, 25, 425-431. | 0.8 | 38 |
| 62 | The sensitivity of posturographic parameters to acquisition settings. Medical Engineering and Physics, 2002, 24, 623-631. | 0.8 | 68 |
| 63 | Hemodynamics as a possible internal mechanical disturbance to balance. Gait and Posture, 2001, 14, 28-35. | 0.6 | 65 |