Christophe Sauret

List of Publications by Year
in descending order

51 papers	445 citations	840119 11 h-index	839053 18 g-index
75 all docs	75 docs citations	75 times ranked	309 citing authors

#	Article	IF	Citations
1	A penalty method for constrained multibody kinematics optimisation using a Levenbergâ€“Marquardt algorithm. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 864-875.	0.9	3
2	How Was Studied the Effect of Manual Wheelchair Configuration on Propulsion Biomechanics: A Systematic Review on Methodologies. Frontiers in Rehabilitation Sciences, 2022, 3, .	0.5	4
3	Golf Swing Biomechanics: A Systematic Review and Methodological Recommendations for Kinematics. Sports, 2022, 10, 91.	0.7	9
4	Manual wheelchair biomechanics while overcoming various environmental barriers: A systematic review. PLoS ONE, 2022, 17, e0269657.	1.1	3
5	Physiology, biomechanics and injuries in table tennis: A systematic review. Science and Sports, 2021, 36, 95-104.	0.2	11
6	Manual wheelchairâ€™s turning resistance: swivelling resistance parameters of front and rear wheels on different surfaces. Disability and Rehabilitation: Assistive Technology, 2021, 16, 324-331.	1.3	8
7	Vibration Transmission during Manual Wheelchair Propulsion: A Systematic Review. Vibration, 2021, 4, 444-481.	0.9	8
8	Changes in wheelchair biomechanics within the first 120â€‰minutes of practice: spatiotemporal parameters, handrim forces, motor force, rolling resistance and fore-aft stability. Disability and Rehabilitation: Assistive Technology, 2020, 15, 305-313.	1.3	4
9	Accuracy and kinematics consistency of marker-based scaling approaches on a lower limb model: a comparative study with imagery data. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 114-125.	0.9	17
10	Effect of Horizontal Ground Reaction Forces during the Golf Swing: Implications for the Development of Technical Solutions of Golf Swing Analysis. Proceedings (mdpi), 2020, 49, 45.	0.2	0
11	Comparison of shoulder kinematic chain models and their influence on kinematics and kinetics in the study of manual wheelchair propulsion. Medical Engineering and Physics, 2019, 69, 153-160.	0.8	8
12	On the Influence of the Shoulder Kinematic Chain on Joint Kinematics and Musculotendon Lengths During Wheelchair Propulsion Estimated From Multibody Kinematics Optimization. Journal of Biomechanical Engineering, 2019, 141, .	0.6	6
13	Case study: biomechanical analysis of trunk stability in two modes of propulsion of manual wheelchair during start and stabilized speed. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, S175-S176.	0.9	1
14	Effect of shoulder model complexity in upper-body kinematics analysis of the golf swing. Journal of Biomechanics, 2018, 75, 154-158.	0.9	22
15	Shoulder kinetics during start-up and propulsion with a manual wheelchair within the initial phase of uninstructed training. Disability and Rehabilitation: Assistive Technology, 2018, 13, 40-46.	1.3	7
16	Validity and reliability of different techniques ofÂneckâ€“shaft angle measurement. Clinical Radiology, 2018, 73, 984.e1-984.e9.	0.5	9
17	Influence of patient axial malpositioning on the trueness and precision of pelvic parameters obtained from 3D reconstructions based on biplanar radiographs. European Radiology, 2017, 27, 1295-1302.	2.3	20
18	Influence of patient rotational malpositioning on pelvic parameters assessed on lateral radiographs. Clinical Radiology, 2017, 72, 794.e11-794.e17.	0.5	2

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19	Mechanical simulations as a tool for assessing the influence of wheelchair settings on the propulsion efficiency. Annals of Physical and Rehabilitation Medicine, 2017, 60, e92.	1.1	1
20	Contribution of vertical and horizontal components of ground reaction forces on global motor moment during a golf swing: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S29-S30.	0.9	4
21	Evaluation of a scapula spinal marker cluster to track the scapula kinematics during manual wheelchair propulsion. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S121-S122.	0.9	0
22	Effects of ellipsoid parameters on scapula motion during manual wheelchair propulsion based on multibody kinematics optimization. A preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S107-S108.	0.9	5
23	Tracking the scapula motion through multibody kinematics optimisation to study manual wheelchair propulsion. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S171-S172.	0.9	2
24	Determination of the intervertebral spinal axial rotation in a golf player population: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S169-S170.	0.9	0
25	Assessment of power losses due to ground contact forces during usual manual wheelchair movements. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S7-S8.	0.9	3
26	Three-dimensional evaluation of skeletal deformities of the pelvis and lower limbs in ambulant children with cerebral palsy. Gait and Posture, 2016, 49, 102-107.	0.6	18
27	Validation of hip joint center localization methods during gait analysis using 3D EOS imaging in typically developing and cerebral palsy children. Gait and Posture, 2016, 48, 30-35.	0.6	28
28	On the use of knee functional calibration to determine the medio-lateral axis of the femur in gait analysis: Comparison with EOS biplanar radiographs as reference. Gait and Posture, 2016, 50, 180-184.	0.6	27
29	Investigation of 3D glenohumeral displacements from 3D reconstruction using biplane X-ray images: Accuracy and reproducibility of the technique and preliminary analysis in rotator cuff tear patients. Journal of Electromyography and Kinesiology, 2016, 29, 12-20.	0.7	9
30	Cluster analysis to investigate biomechanical changes during learning of manual wheelchair locomotion: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2058-2059.	0.9	1
31	Measurement of wheelchair adjustment effects on turning deceleration. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1882-1883.	0.9	9
32	Turning resistance of a manual wheelchair: a theoretical study. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 94-95.	0.9	8
33	Zeroing of six-component handrim dynamometer for biomechanical studies of manual wheelchair locomotion. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 416-422.	0.9	7
34	APSIC: Training and fitting amputees during situations of daily living. Irbm, 2014, 35, 60-65.	3.7	20
35	Effects of user's actions on rolling resistance and wheelchair stability during handrim wheelchair propulsion in the field. Medical Engineering and Physics, 2013, 35, 289-297.	0.8	36
36	Handrim mechanical power during wheelchair propulsion on level and cross-slope surfaces: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 124-125.	0.9	3

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37	Impact of the subject and wheelchair properties during slope ascent in manual wheelchair: a theoretical study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 132-133.	0.9	2
38	Proposal of an index for evaluating pitch instability during actual locomotion with a manual wheelchair. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 130-131.	0.9	4
39	A method for the field assessment of rolling resistance properties of manual wheelchairs. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 381-391.	0.9	18
40	Vaulting quantification for transfemoral amputees in different gait situations. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 126-127.	0.9	2
41	Assessment of field rolling resistance of manual wheelchairs. Journal of Rehabilitation Research and Development, 2012, 49, 63.	1.6	40
42	Evolutions of the wheelchair user's centre of mass and centre of pressure according to the seat fore-aft position during sprinting: a case study of an elite wheelchair tennis player. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 210-211.	0.9	3
43	Computation of the mechanical power of a manual wheelchair user in actual conditions: preliminary results. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 173-174.	0.9	3
44	Dynamic calibration of a wheelchair six-component wheel dynamometer rolling on the floor. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 67-69.	0.9	3
45	Rolling resistance index of manual wheelchairs. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 65-66.	0.9	3
46	Repeatability of wheelchair deceleration tests using a 3-D accelerometer. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 137-138.	0.9	4
47	Error estimations of wheelchair deceleration tests using a 3D accelerometer. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 21-22.	0.9	4
48	Drag force mechanical power during an actual propulsion cycle on a manual wheelchair. Irbm, 2009, 30, 3-9.	3.7	19
49	Respective contributions of the subject and the wheelchair to the total kinetic energy of manual wheelchair locomotion. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 227-228.	0.9	6
50	Drag force mechanical power during a propulsion cycle on a manual wheelchair. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 99-100.	0.9	1
51	Can early golfing lead to acetabular and lower limb changes? A cross-sectional study. International Journal of Sports Science and Coaching, 0, , 174795412110739.	0.7	0