

Laurence Cheze

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

2,707
citations

27
h-index

45
g-index

185
ext. papers

3,147
ext. citations

2.6
avg, IF

5.25
L-index

#	Paper	IF	Citations
159	Adjustments to McConville et al. and Young et al. body segment inertial parameters. <i>Journal of Biomechanics</i> , 2007 , 40, 543-53	2.9	309
158	A solidification procedure to facilitate kinematic analyses based on video system data. <i>Journal of Biomechanics</i> , 1995 , 28, 879-84	2.9	158
157	Rotation sequence as an important factor in shoulder kinematics. <i>Clinical Biomechanics</i> , 2006 , 21 Suppl 1, S3-8	2.2	98
156	Kinematic and kinetic comparisons of elite and well-trained sprinters during sprint start. <i>Journal of Strength and Conditioning Research</i> , 2010 , 24, 896-905	3.2	77
155	Influence of joint constraints on lower limb kinematics estimation from skin markers using global optimization. <i>Journal of Biomechanics</i> , 2010 , 43, 2858-62	2.9	77
154	Loading applied on prosthetic knee of transfemoral amputee: comparison of inverse dynamics and direct measurements. <i>Gait and Posture</i> , 2009 , 30, 560-2	2.6	60
153	A 3D lower limb musculoskeletal model for simultaneous estimation of musculo-tendon, joint contact, ligament and bone forces during gait. <i>Journal of Biomechanics</i> , 2014 , 47, 50-8	2.9	53
152	The KneeKG system: a review of the literature. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012 , 20, 633-8	5.5	53
151	Gait knee kinematic alterations in medial osteoarthritis: three dimensional assessment. <i>International Orthopaedics</i> , 2014 , 38, 1191-8	3.8	47
150	Segment-interaction in sprint start: Analysis of 3D angular velocity and kinetic energy in elite sprinters. <i>Journal of Biomechanics</i> , 2010 , 43, 1494-502	2.9	44
149	Fixed versus free-floating stretcher mechanism in rowing ergometers: mechanical aspects. <i>Journal of Sports Sciences</i> , 2006 , 24, 479-93	3.6	42
148	Kinematic models of the upper limb joints for multibody kinematics optimisation: An overview. <i>Journal of Biomechanics</i> , 2017 , 62, 87-94	2.9	41
147	A three-dimensional kinematic and dynamic study of the lower limb during the stance phase of gait using an homogeneous matrix approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 21-7	5	41
146	Gait changes of the ACL-deficient knee 3D kinematic assessment. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015 , 23, 3259-65	5.5	38
145	Rotation sequence is an important factor in shoulder kinematics. Application to the elite players' flat serves. <i>Journal of Biomechanics</i> , 2010 , 43, 2022-5	2.9	36
144	Comparison of global and joint-to-joint methods for estimating the hip joint load and the muscle forces during walking. <i>Journal of Biomechanics</i> , 2009 , 42, 2357-62	2.9	35
143	Determination of joint functional axes from noisy marker data using the finite helical axis. <i>Human Movement Science</i> , 1998 , 17, 1-15	2.4	35

142	Comparison of different calculations of three-dimensional joint kinematics from video-based system data. <i>Journal of Biomechanics</i> , 2000 , 33, 1695-9	2.9	35
141	Soft tissue artifact compensation by linear 3D interpolation and approximation methods. <i>Journal of Biomechanics</i> , 2009 , 42, 2214-7	2.9	34
140	A soft tissue artefact model driven by proximal and distal joint kinematics. <i>Journal of Biomechanics</i> , 2014 , 47, 2354-61	2.9	33
139	Expression of joint moment in the joint coordinate system. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 114503	2.1	33
138	A new method for motion capture of the scapula using an optoelectronic tracking device: a feasibility study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010 , 13, 397-401	2.1	32
137	Influence of joint models on lower-limb musculo-tendon forces and three-dimensional joint reaction forces during gait. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012 , 226, 146-60	1.7	32
136	3D inverse dynamics in non-orthonormal segment coordinate system. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 315-22	3.1	30
135	Generalized mathematical representation of the soft tissue artefact. <i>Journal of Biomechanics</i> , 2014 , 47, 476-81	2.9	29
134	Dynamic input to determine hip joint moments, power and work on the prosthetic limb of transfemoral amputees: ground reaction vs knee reaction. <i>Prosthetics and Orthotics International</i> , 2011 , 35, 140-9	1.5	28
133	A hip joint kinematics driven model for the generation of realistic thigh soft tissue artefacts. <i>Journal of Biomechanics</i> , 2013 , 46, 625-30	2.9	27
132	Upper limb joint dynamics during manual wheelchair propulsion. <i>Clinical Biomechanics</i> , 2010 , 25, 299-306	2.2	27
131	Global sensitivity analysis of the joint kinematics during gait to the parameters of a lower limb multi-body model. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 655-67	3.1	26
130	A model of the soft tissue artefact rigid component. <i>Journal of Biomechanics</i> , 2015 , 48, 1752-9	2.9	26
129	Anatomical kinematic constraints: consequences on musculo-tendon forces and joint reactions. <i>Multibody System Dynamics</i> , 2012 , 28, 125-141	2.8	25
128	Validation of net joint loads calculated by inverse dynamics in case of complex movements: application to balance recovery movements. <i>Journal of Biomechanics</i> , 2007 , 40, 2450-6	2.9	25
127	Long-Term Effects of Whole-Body Vibration on Human Gait: A Systematic Review and Meta-Analysis. <i>Frontiers in Neurology</i> , 2019 , 10, 627	4.1	23
126	Effects of contracture on gait kinematics: A systematic review. <i>Clinical Biomechanics</i> , 2016 , 33, 103-110	2.2	22
125	What portion of the soft tissue artefact requires compensation when estimating joint kinematics?. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 064502	2.1	22

124	Is transverse acetabular ligament an anatomical landmark to reliably orient the cup in primary total hip arthroplasty?. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2011 , 97, 241-5	2.9	22
123	A simplified marker set to define the center of mass for stability analysis in dynamic situations. <i>Gait and Posture</i> , 2016 , 48, 64-67	2.6	22
122	Unconstrained 3D-kinematics of prehension in five primates: lemur, capuchin, gorilla, chimpanzee, human. <i>Journal of Human Evolution</i> , 2013 , 65, 303-12	3.1	21
121	Effect of botulinum toxin injection on length and lengthening velocity of rectus femoris during gait in hemiparetic patients. <i>Clinical Biomechanics</i> , 2013 , 28, 164-70	2.2	21
120	Thorax and abdomen body segment inertial parameters adjusted from McConville et al. and Young et al.. <i>International Biomechanics</i> , 2015 , 2, 113-118	0.6	21
119	3D kinematic of bunched, medium and elongated sprint start. <i>International Journal of Sports Medicine</i> , 2012 , 33, 555-60	3.6	21
118	Hip and knee joints are more stabilized than driven during the stance phase of gait: an analysis of the 3D angle between joint moment and joint angular velocity. <i>Gait and Posture</i> , 2008 , 28, 243-50	2.6	21
117	Effect of the rider position during rising trot on the horse's biomechanics (back and trunk kinematics and pressure under the saddle). <i>Journal of Biomechanics</i> , 2016 , 49, 1027-1033	2.9	20
116	Effect of various upper limb multibody models on soft tissue artefact correction: A case study. <i>Journal of Biomechanics</i> , 2017 , 62, 102-109	2.9	19
115	Gait parameters database for young children: The influences of age and walking speed. <i>Clinical Biomechanics</i> , 2015 , 30, 572-7	2.2	19
114	Normal and osteoarthritic hip joint mechanical behaviour: a comparison study. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 375-83	3.1	19
113	Foot mechanics during the first six years of independent walking. <i>Journal of Biomechanics</i> , 2011 , 44, 1321-7	3.7	19
112	Influence of the 3D inverse dynamic method on the joint forces and moments during gait. <i>Journal of Biomechanical Engineering</i> , 2007 , 129, 786-90	2.1	19
111	Elderly Fallers Enhance Dynamic Stability Through Anticipatory Postural Adjustments during a Choice Stepping Reaction Time. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 613	3.3	19
110	Gait knee kinematics after ACL reconstruction: 3D assessment. <i>International Orthopaedics</i> , 2015 , 39, 1183-93	3.9	18
109	3D joint dynamics analysis of healthy children's gait. <i>Journal of Biomechanics</i> , 2009 , 42, 2447-53	2.9	18
108	A parallel mechanism of the shoulder application to multi-body optimisation. <i>Multibody System Dynamics</i> , 2015 , 33, 439-451	2.8	17
107	Effect of postural changes on 3D joint angular velocity during starting block phase. <i>Journal of Sports Sciences</i> , 2013 , 31, 256-63	3.6	17

106	A joint coordinate system proposal for the study of the trapeziometacarpal joint kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 277-82	2.1	16
105	A 25 Degrees of Freedom Hand Geometrical Model for Better Hand Attitude Simulation 2004 ,		16
104	Clustering multivariate functional data in group-specific functional subspaces. <i>Computational Statistics</i> , 2020 , 35, 1101-1131	1	14
103	Influence of the Level of Muscular Redundancy on the Validity of a Musculoskeletal Model. <i>Journal of Biomechanical Engineering</i> , 2016 , 138, 021019	2.1	14
102	Rigid and non-rigid geometrical transformations of a marker-cluster and their impact on bone-pose estimation. <i>Journal of Biomechanics</i> , 2015 , 48, 4166-4172	2.9	14
101	Does a third condyle TKA restore normal gait kinematics in varus knees? In vivo knee kinematic analysis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017 , 137, 409-416	3.6	13
100	Biomechanical maturation of joint dynamics during early childhood: updated conclusions. <i>Journal of Biomechanics</i> , 2013 , 46, 2258-63	2.9	13
99	How Does the Scapula Move during the Tennis Serve?. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 1444-9	1.2	13
98	Relationship between costovertebral joint kinematics and lung volume in supine humans. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 232, 57-65	2.8	12
97	Foot roll-over evaluation based on 3D dynamic foot scan. <i>Gait and Posture</i> , 2014 , 39, 577-82	2.6	12
96	Biomechanics of the upper limb using robotic techniques. <i>Human Movement Science</i> , 1996 , 15, 477-496	2.4	12
95	Effects of the racket polar moment of inertia on dominant upper limb joint moments during tennis serve. <i>PLoS ONE</i> , 2014 , 9, e104785	3.7	12
94	Developmental changes in spatial margin of stability in typically developing children relate to the mechanics of gait. <i>Gait and Posture</i> , 2018 , 63, 33-38	2.6	11
93	Effects of the rider on the kinematics of the equine spine under the saddle during the trot using inertial measurement units: Methodological study and preliminary results. <i>Veterinary Journal</i> , 2017 , 221, 6-10	2.5	10
92	State of the art and current limits of musculo-skeletal models for clinical applications. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2015 , 7-17	0.5	10
91	Detection of progressive idiopathic scoliosis during growth using back surface topography: a prospective study of 100 patients. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014 , 57, 629-39	3.8	10
90	Joint and segment coordinate systems revisited. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15 Suppl 1, 183-5	2.1	10
89	A non-invasive protocol to determine the personalized moment arms of knee and ankle muscles. <i>Journal of Biomechanics</i> , 2007 , 40, 1776-85	2.9	10

88	The influence of body posture on the kinematics of prehension in humans and gorillas (Gorilla gorilla). <i>Experimental Brain Research</i> , 2014 , 232, 1047-56	2.3	9
87	Influence of different degrees of bilateral emulated contractures at the triceps surae on gait kinematics: The difference between gastrocnemius and soleus. <i>Gait and Posture</i> , 2017 , 58, 176-182	2.6	9
86	Multibody kinematics optimization with marker projection improves the accuracy of the humerus rotational kinematics. <i>Journal of Biomechanics</i> , 2017 , 62, 117-123	2.9	9
85	Glenohumeral contact force during flat and topspin tennis forehand drives. <i>Sports Biomechanics</i> , 2017 , 16, 127-142	2.2	9
84	The Effect of Variation of Plyometric Push-Ups on Force-Application Kinetics and Perception of Intensity. <i>International Journal of Sports Physiology and Performance</i> , 2017 , 12, 190-197	3.5	9
83	Joint Kinetics to Assess the Influence of the Racket on a Tennis Player's Shoulder. <i>Journal of Sports Science and Medicine</i> , 2013 , 12, 259-66	2.7	9
82	Individual muscle contributions to ground reaction and to joint contact, ligament and bone forces during normal gait. <i>Multibody System Dynamics</i> , 2017 , 40, 193-211	2.8	8
81	Kinematics of the Normal Knee during Dynamic Activities: A Synthesis of Data from Intracortical Pins and Biplane Imaging. <i>Applied Bionics and Biomechanics</i> , 2017 , 2017, 1908618	1.6	8
80	Feasibility and reliability of using an exoskeleton to emulate muscle contractures during walking. <i>Gait and Posture</i> , 2016 , 50, 239-245	2.6	8
79	Effects of Large Saddle Panels on the Biomechanics of the Equine Back During Rising Trot: Preliminary Results. <i>Journal of Equine Veterinary Science</i> , 2017 , 48, 15-22	1.2	8
78	Scapulothoracic kinematics during tennis forehand drive. <i>Sports Biomechanics</i> , 2014 , 13, 166-75	2.2	8
77	Global sensitivity analysis of the kinematics obtained with a multi-body optimisation using a parallel mechanism of the shoulder. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 61-2	2.1	8
76	Effect of axis alignment on in vivo shoulder kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 755-61	2.1	8
75	Feasibility of incorporating a soft tissue artefact model in multi-body optimisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15 Suppl 1, 194-6	2.1	8
74	Effect of N-benzoyl-D-phenylalanine and metformin on insulin receptors in neonatal streptozotocin-induced diabetic rats: studies on insulin binding to erythrocytes. <i>Archives of Physiology and Biochemistry</i> , 2006 , 112, 174-81	2.2	8
73	A qualitative analysis of soft tissue artefact during running. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 124-5	2.1	7
72	Letter to the editor: Joint moments in the joint coordinate system, Euler or dual Euler basis. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 055501	2.1	7
71	Les systèmes d'analyse du mouvement: Techniques et principes, protocoles, sources d'erreurs et solutions. <i>ITBM-RBM News</i> , 2005 , 26, 24-32		7

70	Sequence Analysis of Grip and Manipulation During Tool Using Tasks: a New Method to Analyze Hand Use Strategies and Examine Human Specificities. <i>Journal of Archaeological Method and Theory</i> , 2017 , 24, 751-775	2.8	6
69	Validity of a musculoskeletal model using two different geometries for estimating hip contact forces during normal walking. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18 Suppl 1, 2000-1	2.1	6
68	Comparison between investigations of induced stepping postural responses and voluntary steps to better detect community-dwelling elderly fallers. <i>Neurophysiologie Clinique</i> , 2015 , 45, 269-84	2.7	6
67	Influence of racket polar moment on joint loads during tennis forehand drive. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 99-101	2.1	6
66	A Method to Estimate Horse Speed per Stride from One IMU with a Machine Learning Method. <i>Sensors</i> , 2020 , 20,	3.8	5
65	Determination of the number of degrees of freedom of the trapeziometacarpal joint. An in vitro study. <i>Irbm</i> , 2012 , 33, 272-277	4.8	5
64	Load during prosthetic gait: Is direct measurement better than inverse dynamics?. <i>Gait and Posture</i> , 2009 , 30, S86-S87	2.6	5
63	In vitro analysis of varus-valgus laxity of the knee joint: Comparison of clinical evaluation with measurements using a reference motion analysis system. <i>Irbm</i> , 2010 , 31, 302-308	4.8	5
62	Cervical spine 3D kinematics of healthy subjects: a new experimental procedure proposal. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008 , 11, 41-42	2.1	5
61	Impact de deux orthèses d'avancé mandibulaire sur l'articulation temporo-mandibulaire. <i>IRBM News</i> , 2006 , 27, 233-237		5
60	The effect of ankle and hindfoot malalignment on foot mechanics in patients suffering from post-traumatic ankle osteoarthritis. <i>Clinical Biomechanics</i> , 2021 , 81, 105239	2.2	5
59	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 Suppl 1, 2014-5	2.1	4
58	Increased valgus laxity in flexion with greater tibial resection depth following total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019 , 27, 1450-1455	5.5	4
57	In-vivo analysis of sternal angle, sternal and sternocostal kinematics in supine humans during breathing. <i>Journal of Biomechanics</i> , 2017 , 64, 32-40	2.9	4
56	Methodological Issues Associated With the Use of Force Plates When Assessing Push-ups Power. <i>Journal of Strength and Conditioning Research</i> , 2017 , 31, e74-e74	3.2	4
55	An evaluation of CT-scan to locate the femoral head centre and its implication for hip surgeons. <i>Surgical and Radiologic Anatomy</i> , 2014 , 36, 259-63	1.4	4
54	Upper limb joint moments during wheelchair obstacle climbing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 99-100	2.1	4
53	What is the number of independent degrees of freedom of the trapeziometacarpal joint? Preliminary in vitro results. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 17-18	2.1	4

52	Estimation of the Muscle Efforts of the Lower Limb during a Clutch Pedal Operation 2007 ,		4
51	External Responsiveness and Intrasession Reliability of the Rope-Climbing Test. <i>Journal of Strength and Conditioning Research</i> , 2016 , 30, 2952-8	3.2	4
50	Contribution of individual musculo-tendon forces to the axial compression force of the femur during normal gait. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2016 , 63-69	0.5	3
49	Reference database of the gait cycle for young healthy Tunisian adults. <i>Irbm</i> , 2014 , 35, 46-52	4.8	3
48	2014 ,		3
47	Comparison Between Inertial Sensors and Motion Capture System to Quantify Flexion-Extension Motion in the Back of a Horse. <i>Equine Veterinary Journal</i> , 2014 , 46, 43-43	2.4	3
46	Multi-objective optimisation for musculoskeletal modelling: application to a planar elbow model. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 1108-13	1.7	3
45	Reproducibility of an optical measurement system for the clinical evaluation of active knee rotation in weight-bearing, healthy subjects. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2012 , 98, 159-66	2.9	3
44	Is there a predominant influence between heel height, upper height and sole stiffness on young children gait dynamics?. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 66-7	2.1	3
43	Assessment of the influence of foot orthoses in the hip loading conditions during walking: a single case study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 389-98	2.1	3
42	Comparison of 3D dynamic virtual model to link segment model for estimation of net L4/L5 reaction moments during lifting. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 227-37	2.1	3
41	Influence of the calculation methods and the measurement errors on joint rotations. <i>Journal of Biomechanics</i> , 1998 , 31, 149	2.9	3
40	Effects of a prototype saddle (short panels) on the biomechanics of the equine back: preliminary results. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18 Suppl 1, 1990-1	2.1	2
39	Intrinsic foot joints adapt a stabilized-resistive configuration during the stance phase. <i>Journal of Foot and Ankle Research</i> , 2020 , 13, 13	3.2	2
38	Rotation sequence to report humerothoracic kinematics during 3D motion involving large horizontal component: application to the tennis forehand drive. <i>Sports Biomechanics</i> , 2018 , 17, 131-141	2.2	2
37	Effect of custom foot orthotics on three-dimensional kinematics and dynamics during walking. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 82-3	2.1	2
36	Effet du chaussage sur la marche du jeune enfant avec l'augmentation de la vitesse de déplacement. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2012 , 97-105	0.5	2
35	Potential of the pseudo-inverse method as a constrained static optimization for musculo-tendon forces prediction. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 064503	2.1	2

34	Computation of the mechanical power of a manual wheelchair user in actual conditions: preliminary results. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15 Suppl 1, 173-4	2.1	2
33	Effets d'une orthèse plantaire biomécanique chez un cycliste souffrant d'un syndrome de la bandelette iliotibiale. <i>Science and Sports</i> , 2009 , 24, 281-287	0.8	2
32	Soft tissue artefacts: compensation and modelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 103-104	2.1	2
31	Méthodes biomécaniques avancées pour le calcul des moments articulaires et des forces musculaires. <i>Irbm</i> , 2008 , 29, 272-277	4.8	2
30	Symmetry in rowing air-braked ergometers. <i>Journal of Biomechanics</i> , 2006 , 39, S458	2.9	2
29	Modèle cinématique tridimensionnelle du dos et du membre supérieur pour analyser la technique de propulsion en fauteuil roulant manuel. <i>IRBM News</i> , 2003 , 24, 20-27		2
28	Analyse tridimensionnelle du membre inférieur durant la phase d'appui de la marche. <i>IRBM News</i> , 2001 , 22, 178-184		2
27	Kinematics can help to discriminate the implication of iliopsoas, hamstring and gastrocnemius contractures to a knee flexion gait pattern. <i>Gait and Posture</i> , 2019 , 68, 415-422	2.6	2
26	Acute Effects of Whole-Body Vibration on the Postural Organization of Gait Initiation in Young Adults and Elderly: A Randomized Sham Intervention Study. <i>Frontiers in Neurology</i> , 2019 , 10, 1023	4.1	1
25	Multibody Optimisations: From Kinematic Constraints to Knee Contact Forces and Ligament Forces. <i>Springer Tracts in Advanced Robotics</i> , 2019 , 65-89	0.5	1
24	Influence of racket on the variability of humerothoracic joint kinematics during tennis serve: a preliminary study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 152-3 ¹	3.1	1
23	Introduction of a set of EMG-based muscular activations in a multi-objective optimisation when solving the muscular redundancy problem during gait. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 132-3	2.1	1
22	Proposal of a thorax segment coordinate system for the 3D kinematical analysis of the cervical spine. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 1041-7	2.1	1
21	A constraint-based approach to model the lower limb: preliminary results for running motions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 105-106	2.1	1
20	Static optimization of muscle forces during the stance phase of the normal gait including the physiological properties of muscle in the objective function. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007 , 10, 59-60	2.1	1
19	Knee joint endoprosthesis loading in full extension. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 4305-7		1
18	Hip joint loading computation of a walking patient during stance phase. <i>Clinical Materials</i> , 1994 , 15, 247-252		1
17	Modeling the moving skeleton of walking subjects. <i>Computerized Medical Imaging and Graphics</i> , 1993 , 17, 329-32	7.6	1

16	No difference of gait parameters in patients with image-free robotic-assisted medial unicompartmental knee arthroplasty compared to a conventional technique: early results of a randomized controlled trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021 , 1	5.5	0
15	An experimental set-up to assess knee stiffness: a pilot study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18 Suppl 1, 2052-3	2.1	
14	An upper limb model proposal for multi-body optimisation: effects of anatomical constraints on the kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 90-1	2.1	
13	A New Optimization Criterion Introducing the Muscle Stretch Velocity in the Muscular Redundancy Problem: A First Step into the Modeling of Spastic Muscle. <i>Cognitive Systems Monographs</i> , 2013 , 155-164 ^{0.2}		
12	The KneeKG System 2017 , 191-198		
11	Étude de la reproductibilité d'un système de mesure optique pour l'évaluation clinique de la rotation active du genou en situation d'appui chez des sujets sains. <i>Revue De Chirurgie Orthopedique Et Traumatologique</i> , 2012 , 98, 144-151		0
10	Influence of heel height, upper height and sole stiffness on shod walking in young children. <i>Footwear Science</i> , 2013 , 5, S69-S70	1.4	
9	Le ligament transverse de l'acetabulum constitue-t-il un repère anatomique pour une orientation fiable de la cupule lors d'une prothèse totale de hanche de première intention?. <i>Revue De Chirurgie Orthopedique Et Traumatologique</i> , 2011 , 97, 231-236		0
8	Étude cinématique tridimensionnelle du rachis cervical. <i>Kinesithérapie</i> , 2011 , 11, 36-37		0.1
7	Système d'aide au choix et aux réglages du fauteuil roulant manuel. <i>Irbm</i> , 2011 , 32, 148-151	4.8	
6	Influence of seat adjustment on the wrist injury risk for the manual wheelchair propulsion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007 , 10, 53-54	2.1	
5	Comparison of four 3D inverse dynamic methods for gait analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005 , 8, 89-90	2.1	
4	Study of three-dimensional osteometric scaling schemes applied on musculoskeletal models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005 , 8, 223-224	2.1	
3	Méthode Directe D'analyse de la Marche en Vue D'applications Cliniques. <i>Archives of Physiology and Biochemistry</i> , 1995 , 103, C138-C138		2.2
2	Investigation of biomechanical strategies increasing walking speed in young children aged 1 to 7 years. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2016 , 49-55		0.5
1	Femorotibial alignment measured during robotic assisted knee surgery is reliable: radiologic and gait analysis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021 , 1	3.6	