Laurence Cheze

List of Publications by Year in Descending Order

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	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. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2021**, 1	5.5	0
158	The effect of ankle and hindfoot malalignment on foot mechanics in patients suffering from post-traumatic ankle osteoarthritis. *Clinical Biomechanics*, **2021**, 81, 105239	2.2	5
157	Femorotibial alignment measured during robotic assisted knee surgery is reliable: radiologic and gait analysis. *Archives of Orthopaedic and Trauma Surgery*, **2021**, 1	3.6	
156	Intrinsic foot joints adapt a stabilized-resistive configuration during the stance phase. *Journal of Foot and Ankle Research*, **2020**, 13, 13	3.2	2
155	Clustering multivariate functional data in group-specific functional subspaces. *Computational Statistics*, **2020**, 35, 1101-1131	1	14
154	A Method to Estimate Horse Speed per Stride from One IMU with a Machine Learning Method. *Sensors*, **2020**, 20,	3.8	5
153	Acute Effects of Whole-Body Vibration on the Postural Organization of Gait Initiation in Young Adults and Elderly: A Randomized Sham Intervention Study. *Frontiers in Neurology*, **2019**, 10, 1023	4.1	1
152	Multibody Optimisations: From Kinematic Constraints to Knee Contact Forces and Ligament Forces. *Springer Tracts in Advanced Robotics*, **2019**, 65-89	0.5	1
151	Increased valgus laxity in flexion with greater tibial resection depth following total knee arthroplasty. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2019**, 27, 1450-1455	5.5	4
150	Long-Term Effects of Whole-Body Vibration on Human Gait: A Systematic Review and Meta-Analysis. *Frontiers in Neurology*, **2019**, 10, 627	4.1	23
149	Kinematics can help to discriminate the implication of iliopsoas, hamstring and gastrocnemius contractures to a knee flexion gait pattern. *Gait and Posture*, **2019**, 68, 415-422	2.6	2
148	Developmental changes in spatial margin of stability in typically developing children relate to the mechanics of gait. *Gait and Posture*, **2018**, 63, 33-38	2.6	11
147	Rotation sequence to report humerothoracic kinematics during 3D motion involving large horizontal component: application to the tennis forehand drive. *Sports Biomechanics*, **2018**, 17, 131-141	2.2	2
146	Sequence Analysis of Grip and Manipulation During Tool Using Tasks: a New Method to Analyze Hand Use Strategies and Examine Human Specificities. *Journal of Archaeological Method and Theory* , **2017**, 24, 751-775	2.8	6
145	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. *Veterinary Journal*, **2017**, 221, 6-10	2.5	10
144	Individual muscle contributions to ground reaction and to joint contact, ligament and bone forces during normal gait. *Multibody System Dynamics*, **2017**, 40, 193-211	2.8	8
143	Does a third condyle TKA restore normal gait kinematics in varus knees? In vivo knee kinematic analysis. *Archives of Orthopaedic and Trauma Surgery*, **2017**, 137, 409-416	3.6	13

142	Effect of various upper limb multibody models on soft tissue artefact correction: A case study. *Journal of Biomechanics*, **2017**, 62, 102-109	2.9	19
141	Kinematic models of the upper limb joints for multibody kinematics optimisation: An overview. *Journal of Biomechanics*, **2017**, 62, 87-94	2.9	41
140	Kinematics of the Normal Knee during Dynamic Activities: A Synthesis of Data from Intracortical Pins and Biplane Imaging. *Applied Bionics and Biomechanics*, **2017**, 2017, 1908618	1.6	8
139	In-vivo analysis of sternal angle, sternal and sternocostal kinematics in supine humans during breathing. *Journal of Biomechanics*, **2017**, 64, 32-40	2.9	4
138	Methodological Issues Associated With the Use of Force Plates When Assessing Push-ups Power. *Journal of Strength and Conditioning Research*, **2017**, 31, e74-e74	3.2	4
137	Influence of different degrees of bilateral emulated contractures at the triceps surae on gait kinematics: The difference between gastrocnemius and soleus. *Gait and Posture*, **2017**, 58, 176-182	2.6	9
136	Multibody kinematics optimization with marker projection improves the accuracy of the humerus rotational kinematics. *Journal of Biomechanics*, **2017**, 62, 117-123	2.9	9
135	Effects of Large Saddle Panels on the Biomechanics of the Equine Back During Rising Trot: Preliminary Results. *Journal of Equine Veterinary Science*, **2017**, 48, 15-22	1.2	8
134	Glenohumeral contact force during flat and topspin tennis forehand drives. *Sports Biomechanics*, **2017**, 16, 127-142	2.2	9
133	The Effect of Variation of Plyometric Push-Ups on Force-Application Kinetics and Perception of Intensity. *International Journal of Sports Physiology and Performance*, **2017**, 12, 190-197	3.5	9
132	The KneeKG System **2017**, 191-198		
131	Feasibility and reliability of using an exoskeleton to emulate muscle contractures during walking. *Gait and Posture*, **2016**, 50, 239-245	2.6	8
130	Relationship between costovertebral joint kinematics and lung volume in supine humans. *Respiratory Physiology and Neurobiology*, **2016**, 232, 57-65	2.8	12
129	Contribution of individual musculo-tendon forces to the axial compression force of the femur during normal gait. *Movement and Sports Sciences - Science Et Motricite*, **2016**, 63-69	0.5	3
128	Influence of the Level of Muscular Redundancy on the Validity of a Musculoskeletal Model. *Journal of Biomechanical Engineering*, **2016**, 138, 021019	2.1	14
127	Effect of the rider position during rising trot on the horse?s biomechanics (back and trunk kinematics and pressure under the saddle). *Journal of Biomechanics*, **2016**, 49, 1027-1033	2.9	20
126	Effects of contracture on gait kinematics: A systematic review. *Clinical Biomechanics*, **2016**, 33, 103-110	2.2	22
125	Investigation of biomechanical strategies increasing walking speed in young children aged 1 to 7 years. *Movement and Sports Sciences - Science Et Motricite*, **2016**, 49-55	0.5	

124	Elderly Fallers Enhance Dynamic Stability Through Anticipatory Postural Adjustments during a Choice Stepping Reaction Time. *Frontiers in Human Neuroscience*, **2016**, 10, 613	3.3	19
123	External Responsiveness and Intrasession Reliability of the Rope-Climbing Test. *Journal of Strength and Conditioning Research*, **2016**, 30, 2952-8	3.2	4
122	A simplified marker set to define the center of mass for stability analysis in dynamic situations. *Gait and Posture*, **2016**, 48, 64-67	2.6	22
121	Global sensitivity analysis of the joint kinematics during gait to the parameters of a lower limb multi-body model. *Medical and Biological Engineering and Computing*, **2015**, 53, 655-67	3.1	26
120	Validity of a musculoskeletal model using two different geometries for estimating hip contact forces during normal walking. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18 Suppl 1, 2000-1	2.1	6
119	An experimental set-up to assess knee stiffness: a pilot study. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18 Suppl 1, 2052-3	2.1	
118	Comparison and validation of five scapulothoracic models for correcting soft tissue artefact through multibody optimisation. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18 Suppl 1, 2014-5	2.1	4
117	Effects of a prototype saddle (short panels) on the biomechanics of the equine back: preliminary results. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18 Suppl 1, 1990-1	2.1	2
116	A parallel mechanism of the shoulder□pplication to multi-body optimisation. *Multibody System Dynamics*, **2015**, 33, 439-451	2.8	17
115	Comparison between investigations of induced stepping postural responses and voluntary steps to better detect community-dwelling elderly fallers. *Neurophysiologie Clinique*, **2015**, 45, 269-84	2.7	6
114	How Does the Scapula Move during the Tennis Serve?. *Medicine and Science in Sports and Exercise*, **2015**, 47, 1444-9	1.2	13
113	State of the art and current limits of musculo-skeletal models for clinical applications. *Movement and Sports Sciences - Science Et Motricite*, **2015**, 7-17	0.5	10
112	Gait parameters database for young children: The influences of age and walking speed. *Clinical Biomechanics*, **2015**, 30, 572-7	2.2	19
111	What portion of the soft tissue artefact requires compensation when estimating joint kinematics?. *Journal of Biomechanical Engineering*, **2015**, 137, 064502	2.1	22
110	A model of the soft tissue artefact rigid component. *Journal of Biomechanics*, **2015**, 48, 1752-9	2.9	26
109	Gait changes of the ACL-deficient knee 3D kinematic assessment. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2015**, 23, 3259-65	5.5	38
108	Thorax and abdomen body segment inertial parameters adjusted from McConville et al. and Young et al.. *International Biomechanics*, **2015**, 2, 113-118	0.6	21
107	Rigid and non-rigid geometrical transformations of a marker-cluster and their impact on bone-pose estimation. *Journal of Biomechanics*, **2015**, 48, 4166-4172	2.9	14

106	Gait knee kinematics after ACL reconstruction: 3D assessment. *International Orthopaedics*, **2015**, 39, 1187-93	3.8	18
105	Reference database of the gait cycle for young healthy Tunisian adults. *Irbm*, **2014**, 35, 46-52	4.8	3
104	The influence of body posture on the kinematics of prehension in humans and gorillas (Gorilla gorilla). *Experimental Brain Research*, **2014**, 232, 1047-56	2.3	9
103	A qualitative analysis of soft tissue artefact during running. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17 Suppl 1, 124-5	2.1	7
102	An upper limb model proposal for multi-body optimisation: effects of anatomical constraints on the kinematics. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17 Suppl 1, 90-1	2.1	
101	Influence of racket on the variability of humerothoracic joint kinematics during tennis serve: a preliminary study. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17 Suppl 1, 152-3	2.1	1
100	Effect of custom foot orthotics on three-dimensional kinematics and dynamics during walking. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17 Suppl 1, 82-3	2.1	2
99	Introduction of a set of EMG-based muscular activations in a multi-objective optimisation when solving the muscular redundancy problem during gait. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17 Suppl 1, 132-3	2.1	1
98	Gait knee kinematic alterations in medial osteoarthritis: three dimensional assessment. *International Orthopaedics*, **2014**, 38, 1191-8	3.8	47
97	Generalized mathematical representation of the soft tissue artefact. *Journal of Biomechanics*, **2014**, 47, 476-81	2.9	29
96	A soft tissue artefact model driven by proximal and distal joint kinematics. *Journal of Biomechanics*, **2014**, 47, 2354-61	2.9	33
95	A 3D lower limb musculoskeletal model for simultaneous estimation of musculo-tendon, joint contact, ligament and bone forces during gait. *Journal of Biomechanics*, **2014**, 47, 50-8	2.9	53
94	**2014**,		3
93	Letter to the editor: Joint moments in the joint coordinate system, Euler or dual Euler basis. *Journal of Biomechanical Engineering*, **2014**, 136, 055501	2.1	7
92	Scapulothoracic kinematics during tennis forehand drive. *Sports Biomechanics*, **2014**, 13, 166-75	2.2	8
91	Detection of progressive idiopathic scoliosis during growth using back surface topography: a prospective study of 100 patients. *Annals of Physical and Rehabilitation Medicine*, **2014**, 57, 629-39	3.8	10
90	Comparison Between Inertial Sensors and Motion Capture System to Quantify Flexion-Extension Motion in the Back of a Horse. *Equine Veterinary Journal*, **2014**, 46, 43-43	2.4	3
89	Multi-objective optimisation for musculoskeletal modelling: application to a planar elbow model. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 1108-13	1.7	3

88	Foot roll-over evaluation based on 3D dynamic foot scan. *Gait and Posture*, **2014**, 39, 577-82	2.6	12
87	An evaluation of CT-scan to locate the femoral head centre and its implication for hip surgeons. *Surgical and Radiologic Anatomy*, **2014**, 36, 259-63	1.4	4
86	Effects of the racket polar moment of inertia on dominant upper limb joint moments during tennis serve. *PLoS ONE*, **2014**, 9, e104785	3.7	12
85	Unconstrained 3D-kinematics of prehension in five primates: lemur, capuchin, gorilla, chimpanzee, human. *Journal of Human Evolution*, **2013**, 65, 303-12	3.1	21
84	A hip joint kinematics driven model for the generation of realistic thigh soft tissue artefacts. *Journal of Biomechanics*, **2013**, 46, 625-30	2.9	27
83	Effect of postural changes on 3D joint angular velocity during starting block phase. *Journal of Sports Sciences*, **2013**, 31, 256-63	3.6	17
82	Biomechanical maturation of joint dynamics during early childhood: updated conclusions. *Journal of Biomechanics*, **2013**, 46, 2258-63	2.9	13
81	Effect of botulinum toxin injection on length and lengthening velocity of rectus femoris during gait in hemiparetic patients. *Clinical Biomechanics*, **2013**, 28, 164-70	2.2	21
80	A New Optimization Criterion Introducing the Muscle Stretch Velocity in the Muscular Redundancy Problem: A First Step into the Modeling of Spastic Muscle. *Cognitive Systems Monographs*, **2013**, 155-164	0.2	
79	Is there a predominant influence between heel height, upper height and sole stiffness on young children gait dynamics?. *Computer Methods in Biomechanics and Biomedical Engineering*, **2013**, 16 Suppl 1, 66-7	2.1	3
78	Global sensitivity analysis of the kinematics obtained with a multi-body optimisation using a parallel mechanism of the shoulder. *Computer Methods in Biomechanics and Biomedical Engineering*, **2013**, 16 Suppl 1, 61-2	2.1	8
77	Influence of heel height, upper height and sole stiffness on shod walking in young children. *Footwear Science*, **2013**, 5, S69-S70	1.4	
76	Influence of racket polar moment on joint loads during tennis forehand drive. *Computer Methods in Biomechanics and Biomedical Engineering*, **2013**, 16 Suppl 1, 99-101	2.1	6
75	Joint Kinetics to Assess the Influence of the Racket on a Tennis Player's Shoulder. *Journal of Sports Science and Medicine*, **2013**, 12, 259-66	2.7	9
74	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. *Revue De Chirurgie Orthopedique Et Traumatologique*, **2012**, 98, 144-151	0	
73	Joint and segment coordinate systems revisited. *Computer Methods in Biomechanics and Biomedical Engineering*, **2012**, 15 Suppl 1, 183-5	2.1	10
72	Determination of the number of degrees of freedom of the trapeziometacarpal joint: An in vitro study. *Irbm*, **2012**, 33, 272-277	4.8	5
71	Reproducibility of an optical measurement system for the clinical evaluation of active knee rotation in weight-bearing, healthy subjects. *Orthopaedics and Traumatology: Surgery and Research*, **2012**, 98, 159-66	2.9	3

70	Effet du chaussage sur la marche du jeune enfant avec l'augmentation de la vitesse de déplacement. *Movement and Sports Sciences - Science Et Motricite*, **2012**, 97-105	0.5	2
69	Anatomical kinematic constraints: consequences on musculo-tendon forces and joint reactions. *Multibody System Dynamics*, **2012**, 28, 125-141	2.8	25
68	The KneeKG system: a review of the literature. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2012**, 20, 633-8	5.5	53
67	Potential of the pseudo-inverse method as a constrained static optimization for musculo-tendon forces prediction. *Journal of Biomechanical Engineering*, **2012**, 134, 064503	2.1	2
66	Feasibility of incorporating a soft tissue artefact model in multi-body optimisation. *Computer Methods in Biomechanics and Biomedical Engineering*, **2012**, 15 Suppl 1, 194-6	2.1	8
65	3D kinematic of bunched, medium and elongated sprint start. *International Journal of Sports Medicine*, **2012**, 33, 555-60	3.6	21
64	Computation of the mechanical power of a manual wheelchair user in actual conditions: preliminary results. *Computer Methods in Biomechanics and Biomedical Engineering*, **2012**, 15 Suppl 1, 173-4	2.1	2
63	Influence of joint models on lower-limb musculo-tendon forces and three-dimensional joint reaction forces during gait. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2012**, 226, 146-60	1.7	32
62	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 ?. *Revue De Chirurgie Orthopedique Et Traumatologique*, **2011**, 97, 231-236	0	
61	Is transverse acetabular ligament an anatomical landmark to reliably orient the cup in primary total hip arthroplasty?. *Orthopaedics and Traumatology: Surgery and Research*, **2011**, 97, 241-5	2.9	22
60	Effect of axis alignment on in vivo shoulder kinematics. *Computer Methods in Biomechanics and Biomedical Engineering*, **2011**, 14, 755-61	2.1	8
59	Étude cinématique tridimensionnelle du rachis cervical. *Kinesitherapie*, **2011**, 11, 36-37	0.1	
58	Système d'aide au choix et aux réglages du fauteuil roulant manuel. *Irbm*, **2011**, 32, 148-151	4.8	
57	Proposal of a thorax segment coordinate system for the 3D kinematical analysis of the cervical spine. *Computer Methods in Biomechanics and Biomedical Engineering*, **2011**, 14, 1041-7	2.1	1
56	Foot mechanics during the first six years of independent walking. *Journal of Biomechanics*, **2011**, 44, 1321-7	2.9	19
55	Dynamic input to determine hip joint moments, power and work on the prosthetic limb of transfemoral amputees: ground reaction vs knee reaction. *Prosthetics and Orthotics International*, **2011**, 35, 140-9	1.5	28
54	What is the number of independent degrees of freedom of the trapeziometacarpal joint? Preliminary in vitro results. *Computer Methods in Biomechanics and Biomedical Engineering*, **2011**, 14, 17-18	2.1	4
53	Assessment of the influence of foot orthoses in the hip loading conditions during walking: a single case study. *Computer Methods in Biomechanics and Biomedical Engineering*, **2011**, 14, 389-98	2.1	3

52	A new method for motion capture of the scapula using an optoelectronic tracking device: a feasibility study. *Computer Methods in Biomechanics and Biomedical Engineering*, **2010**, 13, 397-401	2.1	32
51	Upper limb joint dynamics during manual wheelchair propulsion. *Clinical Biomechanics*, **2010**, 25, 299-306	2.2	27
50	Expression of joint moment in the joint coordinate system. *Journal of Biomechanical Engineering*, **2010**, 132, 114503	2.1	33
49	Kinematic and kinetic comparisons of elite and well-trained sprinters during sprint start. *Journal of Strength and Conditioning Research*, **2010**, 24, 896-905	3.2	77
48	In vitro analysis of varus-valgus laxity of the knee joint: Comparison of clinical evaluation with measurements using a reference motion analysis system. *Irbm*, **2010**, 31, 302-308	4.8	5
47	Segment-interaction in sprint start: Analysis of 3D angular velocity and kinetic energy in elite sprinters. *Journal of Biomechanics*, **2010**, 43, 1494-502	2.9	44
46	Rotation sequence is an important factor in shoulder kinematics. Application to the elite players' flat serves. *Journal of Biomechanics*, **2010**, 43, 2022-5	2.9	36
45	Influence of joint constraints on lower limb kinematics estimation from skin markers using global optimization. *Journal of Biomechanics*, **2010**, 43, 2858-62	2.9	77
44	Upper limb joint moments during wheelchair obstacle climbing. *Computer Methods in Biomechanics and Biomedical Engineering*, **2009**, 12, 99-100	2.1	4
43	Normal and osteoarthritic hip joint mechanical behaviour: a comparison study. *Medical and Biological Engineering and Computing*, **2009**, 47, 375-83	3.1	19
42	Soft tissue artifact compensation by linear 3D interpolation and approximation methods. *Journal of Biomechanics*, **2009**, 42, 2214-7	2.9	34
41	Comparison of global and joint-to-joint methods for estimating the hip joint load and the muscle forces during walking. *Journal of Biomechanics*, **2009**, 42, 2357-62	2.9	35
40	3D joint dynamics analysis of healthy children's gait. *Journal of Biomechanics*, **2009**, 42, 2447-53	2.9	18
39	Loading applied on prosthetic knee of transfemoral amputee: comparison of inverse dynamics and direct measurements. *Gait and Posture*, **2009**, 30, 560-2	2.6	60
38	Load during prosthetic gait: Is direct measurement better than inverse dynamics?. *Gait and Posture*, **2009**, 30, S86-S87	2.6	5
37	Effets d□ne orth□e plantaire biom□anique chez un cycliste souffrant d□n syndrome de la bandelette iliotibiale. *Science and Sports*, **2009**, 24, 281-287	0.8	2
36	A joint coordinate system proposal for the study of the trapeziometacarpal joint kinematics. *Computer Methods in Biomechanics and Biomedical Engineering*, **2009**, 12, 277-82	2.1	16
35	Soft tissue artefacts: compensation and modelling. *Computer Methods in Biomechanics and Biomedical Engineering*, **2009**, 12, 103-104	2.1	2

34	A constraint-based approach to model the lower limb: preliminary results for running motions. *Computer Methods in Biomechanics and Biomedical Engineering*, **2009**, 12, 105-106	2.1	1
33	Comparison of 3D dynamic virtual model to link segment model for estimation of net L4/L5 reaction moments during lifting. *Computer Methods in Biomechanics and Biomedical Engineering*, **2009**, 12, 227-37	2.1	3
32	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. *Gait and Posture*, **2008**, 28, 243-50	2.6	21
31	Cervical spine 3D kinematics of healthy subjects: a new experimental procedure proposal. *Computer Methods in Biomechanics and Biomedical Engineering*, **2008**, 11, 41-42	2.1	5
30	MÉthodes biomÉcaniques avancÉes pour le calcul des moments articulaires et des forces musculaires. *Irbm*, **2008**, 29, 272-277	4.8	2
29	Estimation of the Muscle Efforts of the Lower Limb during a Clutch Pedal Operation **2007**,		4
28	Adjustments to McConville et al. and Young et al. body segment inertial parameters. *Journal of Biomechanics*, **2007**, 40, 543-53	2.9	309
27	A non-invasive protocol to determine the personalized moment arms of knee and ankle muscles. *Journal of Biomechanics*, **2007**, 40, 1776-85	2.9	10
26	3D inverse dynamics in non-orthonormal segment coordinate system. *Medical and Biological Engineering and Computing*, **2007**, 45, 315-22	3.1	30
25	Validation of net joint loads calculated by inverse dynamics in case of complex movements: application to balance recovery movements. *Journal of Biomechanics*, **2007**, 40, 2450-6	2.9	25
24	Influence of seat adjustment on the wrist injury risk for the manual wheelchair propulsion. *Computer Methods in Biomechanics and Biomedical Engineering*, **2007**, 10, 53-54	2.1	
23	Static optimization of muscle forces during the stance phase of the normal gait including the physiological properties of muscle in the objective function. *Computer Methods in Biomechanics and Biomedical Engineering*, **2007**, 10, 59-60	2.1	1
22	Influence of the 3D inverse dynamic method on the joint forces and moments during gait. *Journal of Biomechanical Engineering*, **2007**, 129, 786-90	2.1	19
21	Knee joint endoprosthesis loading in full extension. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 4305-7		1
20	Fixed versus free-floating stretcher mechanism in rowing ergometers: mechanical aspects. *Journal of Sports Sciences*, **2006**, 24, 479-93	3.6	42
19	Effect of N-benzoyl-D-phenylalanine and metformin on insulin receptors in neonatal streptozotocin-induced diabetic rats: studies on insulin binding to erythrocytes. *Archives of Physiology and Biochemistry*, **2006**, 112, 174-81	2.2	8
18	Rotation sequence as an important factor in shoulder kinematics. *Clinical Biomechanics*, **2006**, 21 Suppl 1, S3-8	2.2	98
17	Symmetry in rowing air-braked ergometers. *Journal of Biomechanics*, **2006**, 39, S458	2.9	2

16	Impact de deux orthèses d'avancée mandibulaire sur l'articulation temporomandibulaire. *IRBM News*, **2006**, 27, 233-237		5
15	Comparison of four 3D inverse dynamic methods for gait analysis. *Computer Methods in Biomechanics and Biomedical Engineering*, **2005**, 8, 89-90	2.1	
14	Study of three-dimensional osteometric scaling schemes applied on musculoskeletal models. *Computer Methods in Biomechanics and Biomedical Engineering*, **2005**, 8, 223-224	2.1	
13	Les systèmes d'analyse du mouvement: Techniques et principes, protocoles, sources d'erreurs et solutions. *ITBM-RBM News*, **2005**, 26, 24-32		7
12	A 25 Degrees of Freedom Hand Geometrical Model for Better Hand Attitude Simulation **2004**,		16
11	A three-dimensional kinematic and dynamic study of the lower limb during the stance phase of gait using an homogeneous matrix approach. *IEEE Transactions on Biomedical Engineering*, **2004**, 51, 21-7	5	41
10	Modèle cinématique tridimensionnelle du dos et du membre supérieur pour analyser la technique de propulsion en fauteuil roulant manuel. *IRBM News*, **2003**, 24, 20-27		2
9	Analyse tridimensionnelle du membre inférieur durant la phase d'appui de la marche. *IRBM News*, **2001**, 22, 178-184		2
8	Comparison of different calculations of three-dimensional joint kinematics from video-based system data. *Journal of Biomechanics*, **2000**, 33, 1695-9	2.9	35
7	Influence of the calculation methods and the measurement errors on joint rotations. *Journal of Biomechanics*, **1998**, 31, 149	2.9	3
6	Determination of joint functional axes from noisy marker data using the finite helical axis. *Human Movement Science*, **1998**, 17, 1-15	2.4	35
5	Biomechanics of the upper limb using robotic techniques. *Human Movement Science*, **1996**, 15, 477-496	2.4	12
4	A solidification procedure to facilitate kinematic analyses based on video system data. *Journal of Biomechanics*, **1995**, 28, 879-84	2.9	158
3	Methode Directe D'analyse de la Marche en Vue D'applications Cliniques. *Archives of Physiology and Biochemistry*, **1995**, 103, C138-C138	2.2	
2	Hip joint loading computation of a walking patient during stance phase. *Clinical Materials*, **1994**, 15, 247-252		1
1	Modeling the moving skeleton of walking subjects. *Computerized Medical Imaging and Graphics*, **1993**, 17, 329-32	7.6	1