

Raphael Dumas

List of Publications by Year in descending order

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Version: 2024-02-01

168
papers

3,627
citations

168829

31
h-index

198040

52
g-index

187
all docs

187
docs citations

187
times ranked

2760
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic estimation of soft tissue stiffness for use in modeling socket, orthosis or exoskeleton interfaces with lower limb segments. <i>Journal of Biomechanics</i> , 2022, 134, 110987.	0.9	4
2	Subject-specific model-derived kinematics of the shoulder based on skin markers during arm abduction up to 180° - assessment of 4 gleno-humeral joint models. <i>Journal of Biomechanics</i> , 2022, 136, 111061.	0.9	2
3	Changes in ankle and foot kinematic after fixed-bearing total ankle replacement. <i>Journal of Biomechanics</i> , 2022, 136, 111060.	0.9	1
4	Uncertainty analysis and sensitivity of scapulothoracic joint angles to kinematic model parameters. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 2065-2075.	1.6	2
5	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.	0.5	8
6	Sparse Visual-Inertial Measurement Units Placement for Gait Kinematics Assessment. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1300-1311.	2.7	2
7	Impact of foot modeling on the quantification of the effect of total ankle replacement: A pilot study. <i>Gait and Posture</i> , 2021, 84, 308-314.	0.6	5
8	Knee loading in OA subjects is correlated to flexion and adduction moments and to contact point locations. <i>Scientific Reports</i> , 2021, 11, 8594.	1.6	13
9	Post-sprain versus post-fracture post-traumatic ankle osteoarthritis: Impact on foot and ankle kinematics and kinetics. <i>Gait and Posture</i> , 2021, 86, 278-286.	0.6	9
10	Contribution of passive moments to inter-segmental moments during gait: A systematic review. <i>Journal of Biomechanics</i> , 2021, 122, 110450.	0.9	5
11	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. <i>Journal of Biomechanics</i> , 2020, 99, 109533.	0.9	104
12	A method for quantitative evaluation of a valgus knee orthosis using biplane x-ray images. , 2020, 2020, 4815-4818.		0
13	The effect of anterolateral ligament reconstruction on knee constraint: A computer model-based simulation study. <i>Knee</i> , 2020, 27, 1228-1237.	0.8	4
14	The contribution of passive moments to inter-segmental moments during gait: a systematic review. <i>Gait and Posture</i> , 2020, 81, 194-195.	0.6	0
15	Accuracy of the tibiofemoral contact forces estimated by a subject-specific musculoskeletal model with fluoroscopy-based contact point trajectories. <i>Journal of Biomechanics</i> , 2020, 113, 110117.	0.9	4
16	Sensitivity of conventional gait model to lower limb marker misplacement. <i>Gait and Posture</i> , 2020, 81, 101-102.	0.6	0
17	Dynamics Assessment and Minimal Model of an Orthosis-Assisted Knee Motion. , 2020, , .		0
18	Physically Consistent Whole-Body Kinematics Assessment Based on an RGB-D Sensor. Application to Simple Rehabilitation Exercises. <i>Sensors</i> , 2020, 20, 2848.	2.1	8

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19	Intrinsic foot joints adapt a stabilized resistive configuration during the stance phase. <i>Journal of Foot and Ankle Research</i> , 2020, 13, 13.	0.7	7
20	Impact of knee marker misplacement on gait kinematics of children with cerebral palsy using the Conventional Gait Model—A sensitivity study. <i>PLoS ONE</i> , 2020, 15, e0232064.	1.1	22
21	Knee Medial and Lateral Contact Forces Computed Along Subject-Specific Contact Point Trajectories of Healthy Volunteers and Osteoarthritic Patients. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020, , 457-463.	0.5	4
22	Multibody Optimisations: From Kinematic Constraints to Knee Contact Forces and Ligament Forces. <i>Springer Tracts in Advanced Robotics</i> , 2019, , 65-89.	0.3	2
23	Comments on the “Influence of the load modelling during gait on the stress distribution in a femoral implant” by Gervais et al.. <i>Multibody System Dynamics</i> , 2019, 47, 435-437.	1.7	1
24	Motion analysis and modeling of the shoulder. , 2019, , 261-271.		1
25	IMU-based sensor-to-segment multiple calibration for upper limb joint angle measurement—a proof of concept. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2449-2460.	1.6	14
26	Can a reduction approach predict reliable joint contact and musculo-tendon forces?. <i>Journal of Biomechanics</i> , 2019, 95, 109329.	0.9	7
27	Correcting lower limb segment axis misalignment in gait analysis: A simple geometrical method. <i>Gait and Posture</i> , 2019, 72, 34-39.	0.6	4
28	Lateral extra-articular reconstruction length changes during weightbearing knee flexion and pivot shift: A simulation study. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2019, 105, 661-667.	0.9	2
29	A screening method to analyse the sensitivity of a lower limb multibody kinematic model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 925-935.	0.9	2
30	Technical considerations in lateral extra-articular reconstruction coupled with anterior cruciate ligament reconstruction: A simulation study evaluating the influence of surgical parameters on control of knee stability. <i>Clinical Biomechanics</i> , 2019, 61, 136-143.	0.5	7
31	Knee medial and lateral contact forces in a musculoskeletal model with subject-specific contact point trajectories. <i>Journal of Biomechanics</i> , 2018, 69, 138-145.	0.9	16
32	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.	0.6	22
33	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.	0.8	4
34	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
35	Incidence and patterns of meniscal tears accompanying the anterior cruciate ligament injury: possible local and generalized risk factors. <i>International Orthopaedics</i> , 2018, 42, 2113-2121.	0.9	55
36	Estimation of the Body Segment Inertial Parameters for the Rigid Body Biomechanical Models Used in Motion Analysis. , 2018, , 47-77.		12

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37	Contribution of passive actions to the lower limb joint moments and powers during gait: A comparison of models. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 768-778.	1.0	5
38	Tibio-femoral joint contact in healthy and osteoarthritic knees during quasi-static squat: A bi-planar X-ray analysis. Journal of Biomechanics, 2017, 53, 178-184.	0.9	17
39	Comparative assessment of knee joint models used in multi-body kinematics optimisation for soft tissue artefact compensation. Journal of Biomechanics, 2017, 62, 95-101.	0.9	27
40	Individual muscle contributions to ground reaction and to joint contact, ligament and bone forces during normal gait. Multibody System Dynamics, 2017, 40, 193-211.	1.7	13
41	Proximal tibial bony and meniscal slopes are higher in ACL injured subjects than controls: a comparative MRI study. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 1598-1605.	2.3	37
42	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
43	Assessment of the lower limb soft tissue artefact at marker-cluster level with a high-density marker set during walking. Journal of Biomechanics, 2017, 62, 21-26.	0.9	15
44	A constrained extended Kalman filter for the optimal estimate of kinematics and kinetics of a sagittal symmetric exercise. Journal of Biomechanics, 2017, 62, 140-147.	0.9	11
45	Alterations of musculoskeletal models for a more accurate estimation of lower limb joint contact forces during normal gait: A systematic review. Journal of Biomechanics, 2017, 63, 8-20.	0.9	35
46	A sensitivity analysis method for the body segment inertial parameters based on ground reaction and joint moment regressor matrices. Journal of Biomechanics, 2017, 64, 85-92.	0.9	16
47	Human movement analysis: The soft tissue artefact issue. Journal of Biomechanics, 2017, 62, 1-4.	0.9	67
48	Relations between age, step-time parameters and margin of stability during gait in typically developing children. Gait and Posture, 2017, 57, 162-163.	0.6	0
49	Individual contributions of the lower limb muscles to the position of the centre of pressure during gait. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S137-S138.	0.9	4
50	Whole body segment inertia parameters estimation from movement and ground reaction forces: a feasibility study. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S175-S176.	0.9	2
51	Stiffness of a wobbling mass models analysed by a smooth orthogonal decomposition of the skin movement relative to the underlying bone. Journal of Biomechanics, 2017, 62, 47-52.	0.9	12
52	Gait Analysis of Transfemoral Amputees: Errors in Inverse Dynamics Are Substantial and Depend on Prosthetic Design. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 679-685.	2.7	34
53	Main component of soft tissue artifact of the upper-limbs with respect to different functional, daily life and sports movements. Journal of Biomechanics, 2017, 62, 39-46.	0.9	24
54	Glenohumeral contact force during flat and topspin tennis forehand drives. Sports Biomechanics, 2017, 16, 127-142.	0.8	12

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55	A multi-body optimization framework with a knee kinematic model including articular contacts and ligaments. <i>Meccanica</i> , 2017, 52, 695-711.	1.2	12
56	Can generic knee joint models improve the measurement of osteoarthritic knee kinematics during squatting activity?. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 94-103.	0.9	16
57	Estimation of body segment inertia parameters from 3D body scanner images: a semi-automatic method dedicated to human movement analysis applications. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, S177-S178.	0.9	4
58	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, 1-9.	0.5	11
59	Modeling of the Thigh. , 2017, , 497-521.		5
60	Estimation of the Body Segment Inertial Parameters for the Rigid Body Biomechanical Models Used in Motion Analysis. , 2017, , 1-31.		9
61	Knee Kinematics Estimation Using Multi-Body Optimisation Embedding a Knee Joint Stiffness Matrix: A Feasibility Study. <i>PLoS ONE</i> , 2016, 11, e0157010.	1.1	21
62	Modeling the Human Tibiofemoral Joint Using Ex Vivo Determined Compliance Matrices. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 061010.	0.6	4
63	Dynamically consistent inverse kinematics framework using optimizations for human motion analysis. , 2016, , .		3
64	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.	0.6	52
65	A constrained Extended Kalman Filter for dynamically consistent inverse kinematics and inertial parameters identification. , 2016, , .		11
66	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.	0.2	3
67	Influence of the Level of Muscular Redundancy on the Validity of a Musculoskeletal Model. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 021019.	0.6	15
68	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.	0.2	0
69	How Does the Scapula Move during the Tennis Serve?. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1444-1449.	0.2	18
70	Postural spinal balance defined by net intersegmental moments: Results of a biomechanical approach and experimental errors measurement. <i>World Journal of Orthopedics</i> , 2015, 6, 983.	0.8	9
71	Upper Limb Kinematics Using Inertial and Magnetic Sensors: Comparison of Sensor-to-Segment Calibrations. <i>Sensors</i> , 2015, 15, 18813-18833.	2.1	101
72	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.	0.2	13

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73	Gait parameters database for young children: The influences of age and walking speed. <i>Clinical Biomechanics</i> , 2015, 30, 572-577.	0.5	29
74	What Portion of the Soft Tissue Artefact Requires Compensation When Estimating Joint Kinematics?. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 064502.	0.6	25
75	A model of the soft tissue artefact rigid component. <i>Journal of Biomechanics</i> , 2015, 48, 1752-1759.	0.9	30
76	Thorax and abdomen body segment inertial parameters adjusted from McConville et al. and Young et al.. <i>International Biomechanics</i> , 2015, 2, 113-118.	0.9	26
77	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.	0.9	16
78	Validation of a multi-body optimization with knee kinematic models including ligament constraints. <i>Journal of Biomechanics</i> , 2015, 48, 1141-1146.	0.9	42
79	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, 655-667.	1.6	28
80	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, 2000-2001.	0.9	8
81	Estimating joint space of the knee during weight-bearing squatting activity using motion capture – preliminary results of a new method. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1910-1911.	0.9	2
82	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
83	Soft tissue artifact compensation in knee kinematics by multi-body optimization: Performance of subject-specific knee joint models. <i>Journal of Biomechanics</i> , 2015, 48, 3796-3802.	0.9	60
84	A parallel mechanism of the shoulder – application to multi-body optimisation. <i>Multibody System Dynamics</i> , 2015, 33, 439-451.	1.7	19
85	Influence of biomechanical multi-joint models used in global optimisation to estimate healthy and osteoarthritis knee kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 76-77.	0.9	8
86	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.	0.6	7
87	Scapulothoracic kinematics during tennis forehand drive. <i>Sports Biomechanics</i> , 2014, 13, 166-175.	0.8	13
88	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, 1108-1113.	1.0	5
89	A qualitative analysis of soft tissue artefact during running. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 124-125.	0.9	7
90	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, 90-91.	0.9	0

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91	Benefits of functional calibration for estimating elbow joint angles using magneto-inertial sensors: preliminary results. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 108-109.	0.9	10
92	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, 152-153.	0.9	1
93	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, 132-133.	0.9	1
94	Generalized mathematical representation of the soft tissue artefact. <i>Journal of Biomechanics</i> , 2014, 47, 476-481.	0.9	33
95	A soft tissue artefact model driven by proximal and distal joint kinematics. <i>Journal of Biomechanics</i> , 2014, 47, 2354-2361.	0.9	40
96	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, 50-58.	0.9	61
97	Effects of the Racket Polar Moment of Inertia on Dominant Upper Limb Joint Moments during Tennis Serve. <i>PLoS ONE</i> , 2014, 9, e104785.	1.1	18
98	Effect of the muscle activation level distribution on normal stress field: a numerical study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 164-166.	0.9	2
99	Effect of postural changes on 3D joint angular velocity during starting block phase. <i>Journal of Sports Sciences</i> , 2013, 31, 256-263.	1.0	19
100	Biomechanical maturation of joint dynamics during early childhood: Updated conclusions. <i>Journal of Biomechanics</i> , 2013, 46, 2258-2263.	0.9	17
101	Hypothèse physiopathologique de l'excentration de hanche dans la paralysie cérébrale à partir d'une expérience de terrain. <i>Motricite Cerebrale</i> , 2013, 34, 123-127.	0.1	2
102	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.	0.1	0
103	Influence of hand-held racket on scapulothoracic kinematics during humeral elevation in the scapular plane in young tennis players: a preliminary study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 102-103.	0.9	0
104	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, 66-67.	0.9	3
105	Simultaneous Prediction of Musculo-Tendon, Joint Contact, Ligament and Bone Forces in the Lower Limb During Gait Using a One-Step Static Optimisation Procedure. , 2013, , .		0
106	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, 61-62.	0.9	10
107	Influence of heel height, upper height and sole stiffness on shod walking in young children. <i>Footwear Science</i> , 2013, 5, S69-S70.	0.8	0
108	Influence of racket polar moment on joint loads during tennis forehand drive. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 99-101.	0.9	7

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109	EMG-based validation of musculo-skeletal models for gait analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 152-154.	0.9	15
110	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.	0.7	10
111	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.	0.6	2
112	Multi-body optimisation with deformable ligament constraints: influence of ligament geometry. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 191-193.	0.9	7
113	Feasibility of incorporating a soft tissue artefact model in multi-body optimisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 194-196.	0.9	8
114	Geometrical personalisation of human FE model using palpable markers on volunteers. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 298-300.	0.9	3
115	3D Kinematic of Bunched, Medium and Elongated Sprint Start. <i>International Journal of Sports Medicine</i> , 2012, 33, 555-560.	0.8	24
116	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, 173-174.	0.9	3
117	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, 146-160.	1.0	37
118	Joint and segment coordinate systems revisited. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 183-185.	0.9	15
119	Determination of the number of degrees of freedom of the trapeziometacarpal joint – An in vitro study. <i>Irbm</i> , 2012, 33, 272-277.	3.7	7
120	Sagittal spine posture assessment: Feasibility of a protocol based on intersegmental moments. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2012, 98, 109-113.	0.9	16
121	Analyse de posture sagittale du rachis: Étude de faisabilité d'un protocole fondé sur les moments intersegmentaires. <i>Revue De Chirurgie Orthopedique Et Traumatologique</i> , 2012, 98, 104-109.	0.0	0
122	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.	0.2	3
123	Anatomical kinematic constraints: consequences on musculo-tendon forces and joint reactions. <i>Multibody System Dynamics</i> , 2012, 28, 125-141.	1.7	28
124	Effect of axis alignment on <i>in vivo</i> shoulder kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 755-761.	0.9	9
125	Introduction of Contact Forces Minimization in the Musculo-Tendon Forces Optimization During Gait. , 2011, , .		0
126	Foot mechanics during the first six years of independent walking. <i>Journal of Biomechanics</i> , 2011, 44, 1321-1327.	0.9	26

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127	Dynamic input to determine hip joint moments, power and work on the prosthetic limb of transfemoral amputees. <i>Prosthetics and Orthotics International</i> , 2011, 35, 140-149.	0.5	41
128	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.	0.9	6
129	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.	1.0	102
130	Segment-interaction in sprint start: Analysis of 3D angular velocity and kinetic energy in elite sprinters. <i>Journal of Biomechanics</i> , 2010, 43, 1494-1502.	0.9	53
131	Influence of joint constraints on lower limb kinematics estimation from skin markers using global optimization. <i>Journal of Biomechanics</i> , 2010, 43, 2858-2862.	0.9	98
132	Morphometric analysis of vertebral deformities in a porcine scoliosis model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 41-42.	0.9	0
133	Prediction of internal spine configuration from external measurements using a multi-body model of the spine. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 79-80.	0.9	3
134	Upper limb joint dynamics during manual wheelchair propulsion. <i>Clinical Biomechanics</i> , 2010, 25, 299-306.	0.5	38
135	Expression of Joint Moment in the Joint Coordinate System. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 114503.	0.6	39
136	Upper limb joint moments during wheelchair obstacle climbing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 99-100.	0.9	4
137	Correction for patient sway in radiographic biplanar imaging for three-dimensional reconstruction of the spine: in vitro study of a new method. <i>Acta Radiologica</i> , 2009, 50, 781-790.	0.5	8
138	Soft tissue artifact compensation by linear 3D interpolation and approximation methods. <i>Journal of Biomechanics</i> , 2009, 42, 2214-2217.	0.9	37
139	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, 2357-2362.	0.9	41
140	3D joint dynamics analysis of healthy children's gait. <i>Journal of Biomechanics</i> , 2009, 42, 2447-2453.	0.9	22
141	Loading applied on prosthetic knee of transfemoral amputee: Comparison of inverse dynamics and direct measurements. <i>Gait and Posture</i> , 2009, 30, 560-562.	0.6	70
142	Load during prosthetic gait: Is direct measurement better than inverse dynamics?. <i>Gait and Posture</i> , 2009, 30, S86-S87.	0.6	5
143	A joint coordinate system proposal for the study of the trapeziometacarpal joint kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 277-282.	0.9	22
144	Soft tissue artefacts: compensation and modelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 103-104.	0.9	3

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145	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.	0.9	1
146	Respective contributions of the subject and the wheelchair to the total kinetic energy of manual wheelchair locomotion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 227-228.	0.9	6
147	Méthodes biomécaniques avancées pour le calcul des moments articulaires et des forces musculaires. <i>Irjm</i> , 2008, 29, 272-277.	3.7	2
148	A semi-automated method using interpolation and optimisation for the 3D reconstruction of the spine from bi-planar radiography: a precision and accuracy study. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 85-92.	1.6	48
149	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, 243-250.	0.6	26
150	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.	0.9	1
151	Influence of the 3D Inverse Dynamic Method on the Joint Forces and Moments During Gait. <i>Journal of Biomechanical Engineering</i> , 2007, 129, 786-790.	0.6	22
152	Adjustments to McConville et al. and Young et al. body segment inertial parameters. <i>Journal of Biomechanics</i> , 2007, 40, 543-553.	0.9	409
153	3D inverse dynamics in non-orthonormal segment coordinate system. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 315-322.	1.6	43
154	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, 2450-2456.	0.9	28
155	Comparison of Bi-planar Radiography and Adjusted Scaling Equations for the Computation of Appropriate 3D Body Segment Inertial Parameters. , 2006, , .		1
156	Three-Dimensional Spinal and Pelvic Alignment in an Asymptomatic Population. <i>Spine</i> , 2006, 31, E507-E512.	1.0	44
157	Personalized Body Segment Parameters From Biplanar Low-Dose Radiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1756-1763.	2.5	49
158	Finite element simulation of spinal deformities correction by in situ contouring technique. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 331-337.	0.9	20
159	Comparison of four 3D inverse dynamic methods for gait analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 89-90.	0.9	1
160	Validation of the relative 3D orientation of vertebrae reconstructed by bi-planar radiography. <i>Medical Engineering and Physics</i> , 2004, 26, 415-422.	0.8	29
161	A 3D Generic Inverse Dynamic Method using Wrench Notation and Quaternion Algebra. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004, 7, 159-166.	0.9	95
162	Surgical Correction of Scoliosis by In Situ Contouring. <i>Spine</i> , 2004, 29, 193-199.	1.0	120

#	ARTICLE	IF	CITATIONS
163	Variability of the spine and pelvis location with respect to the gravity line: a three-dimensional stereoradiographic study using a force platform. <i>Surgical and Radiologic Anatomy</i> , 2003, 25, 424-433.	0.6	106
164	Explicit calibration method and specific device designed for stereoradiography. <i>Journal of Biomechanics</i> , 2003, 36, 827-834.	0.9	31
165	Title is missing!. <i>Spine</i> , 2003, 28, 1158-1162.	1.0	7
166	Three-Dimensional Quantitative Segmental Analysis of Scoliosis Corrected by the In Situ Contouring Technique. <i>Spine</i> , 2003, 28, 1158-1162.	1.0	23
167	Pre and post 3D modeling of scoliotic patients operated with in situ contouring technique. <i>Studies in Health Technology and Informatics</i> , 2002, 91, 291-5.	0.2	1
168	Mechanical characterization in shear of human femoral cancellous bone: torsion and shear tests. <i>Medical Engineering and Physics</i> , 1999, 21, 641-649.	0.8	40