Alberto Leardini

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8879307/publications.pdf

Version: 2024-02-01

230	15,881	44444	20023
papers	citations	50 h-index	121 g-index

237	237	237	8956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Pelvic Reconstruction Procedure for Custom-Made Prosthesis Design of Bone Tumor Surgical Treatments. Applied Sciences (Switzerland), 2022, 12, 1654.	1.3	5
2	Superimposition of ground reaction force on tibial-plateau supporting diagnostics and post-operative evaluations in high-tibial osteotomy. A novel methodology. Gait and Posture, 2022, 94, 144-152.	0.6	5
3	Development of a Novel Passive-Dynamic Custom AFO for Drop-Foot Patients: Design Principles, Manufacturing Technique, Mechanical Properties Characterization and Functional Evaluation. Applied Sciences (Switzerland), 2022, 12, 4721.	1.3	5
4	Design principles, manufacturing and evaluation techniques of custom dynamic ankleâ€foot orthoses: a review study. Journal of Foot and Ankle Research, 2022, 15, 38.	0.7	10
5	Effect of Ligament Mapping from Different Magnetic Resonance Image Quality on Joint Stability in a Personalized Dynamic Model of the Human Ankle Complex. Applied Sciences (Switzerland), 2022, 12, 5087.	1.3	0
6	Comparison of Bone Segmentation Software over Different Anatomical Parts. Applied Sciences (Switzerland), 2022, 12, 6097.	1.3	2
7	A professional athlete functionally active 10Âyears after an arthroscopic lateral collagen meniscus implant. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 117-119.	2.3	6
8	Range of motion of foot joints following total ankle replacement and subtalar fusion. Foot and Ankle Surgery, 2021, 27, 150-155.	0.8	12
9	Techniques for 3D foot bone orientation angles in weight-bearing from cone-beam computed tomography. Foot and Ankle Surgery, 2021, 27, 168-174.	0.8	22
10	Effects of Hip Abductor Strengthening on Musculoskeletal Loading in Hip Dysplasia Patients after Total Hip Replacement. Applied Sciences (Switzerland), 2021, 11, 2123.	1.3	7
11	Weight bearing versus conventional CT for the measurement of patellar alignment and stability in patients after surgical treatment for patellar recurrent dislocation. Radiologia Medica, 2021, 126, 869-877.	4.7	10
12	Semiâ€automatic measurements of foot morphological parameters from 3D plantar foot scans. Journal of Foot and Ankle Research, 2021, 14, 18.	0.7	7
13	Experimental and Modeling Analyses of Human Motion Across the Static Magnetic Field of an MRI Scanner. Frontiers in Bioengineering and Biotechnology, 2021, 9, 613616.	2.0	2
14	Biomechanical-Based Protocol for in vitro Study of Cartilage Response to Cyclic Loading: A Proof-of-Concept in Knee Osteoarthritis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 634327.	2.0	5
15	Mechanical and in vitro biological properties of uniform and graded Cobaltâ€chrome lattice structures in orthopedic implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 2091-2103.	1.6	18
16	Angular and linear measurements of adult flexible flatfoot via weight-bearing CT scans and 3D bone reconstruction tools. Scientific Reports, 2021, 11, 16139.	1.6	26
17	ISB recommendations for skin-marker-based multi-segment foot kinematics. Journal of Biomechanics, 2021, 125, 110581.	0.9	13
18	The Effect of Neuropathy and Diabetes Type on Multisegment Foot Kinematics: A Cohort Study on 70 Participants with Diabetes. Applied Sciences (Switzerland), 2021, 11, 8848.	1.3	2

#	Article	IF	Citations
19	Accuracy and correlation between skin-marker based and radiographic measurements of medial longitudinal arch deformation. Journal of Biomechanics, 2021, 128, 110711.	0.9	7
20	Effect of artificial surface shapes and their malpositioning on the mechanics of the replaced ankle joint for possible better prosthesis designs. Clinical Biomechanics, 2021, 90, 105489.	0.5	3
21	A methodology for the customization of hinged ankle-foot orthoses based on in vivo helical axis calculation with 3D printed rigid shells. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 367-377.	1.0	4
22	Can Computer-Assisted Total Knee Arthroplasty Support the Prediction of Postoperative Three-Dimensional Kinematics of the Tibiofemoral and Patellofemoral Joints at the Replaced Knee?. Journal of Knee Surgery, 2021, 34, 1014-1025.	0.9	2
23	New anatomical reference systems for the bones of the foot and ankle complex: definitions and exploitation on clinical conditions. Journal of Foot and Ankle Research, 2021, 14, 66.	0.7	8
24	Analysis of Clinical Profiles, Deformities, and Plantar Pressure Patterns in Diabetic Foot Syndrome. Applied Sciences (Switzerland), 2021, 11, 11464.	1.3	1
25	Three-dimensional displacement after a medializing calcaneal osteotomy in relation to the osteotomy angle and hindfoot alignment. Foot and Ankle Surgery, 2020, 26, 78-84.	0.8	22
26	A novel Cervical Spine Protection device for reducing neck injuries in contact sports: design concepts and preliminary in vivo testing. Sports Biomechanics, 2020, 19, 382-394.	0.8	2
27	Estimating the stabilizing function of ankle and subtalar ligaments via a morphology-specific three-dimensional dynamic model. Journal of Biomechanics, 2020, 98, 109421.	0.9	7
28	Radiographic angular measurements of the foot and ankle in weight-bearing: A literature review. Foot and Ankle Surgery, 2020, 26, 509-517.	0.8	33
29	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. Journal of Biomechanics, 2020, 99, 109533.	0.9	104
30	Custom-Made Total Talonavicular Replacement in a Professional Rock Climber: Functional Evaluation With Gait Analysis and 3-Dimensional Medical Imaging in Weightbearing at 5 Yearsâ€™ Follow-Up. Journal of Foot and Ankle Surgery, 2020, 59, 1118-1127.	0.5	4
31	Repeatability of skin-markers based kinematic measures from a multi-segment foot model in walking and running. Journal of Biomechanics, 2020, 110, 109983.	0.9	6
32	Retrospective comparison between a two- and three-component ankle arthroplasty: clinical and functional evaluation via gait analysis. Clinical Biomechanics, 2020, 80, 105180.	0.5	7
33	Comparing the kinematic output of the Oxford and Rizzoli Foot Models during normal gait and voluntary pathological gait in healthy adults. Gait and Posture, 2020, 82, 126-132.	0.6	19
34	Rearfoot, Midfoot, and Forefoot Motion in Naturally Forefoot and Rearfoot Strike Runners during Treadmill Running. Applied Sciences (Switzerland), 2020, 10, 7811.	1.3	6
35	Correlations between weightâ€bearing 3D bone architecture and dynamic plantar pressure measurements in the diabetic foot. Journal of Foot and Ankle Research, 2020, 13, 64.	0.7	9
36	An Anatomical-Based Subject-Specific Model of In-Vivo Knee Joint 3D Kinematics From Medical Imaging. Applied Sciences (Switzerland), 2020, 10, 2100.	1.3	24

#	Article	IF	Citations
37	Functional Evaluation of a Shock Absorbing Insole During Military Training in a Group of Soldiers: A Pilot Study. Military Medicine, 2020, 185, e643-e648.	0.4	4
38	Contribution of foot joints in the energetics of human running. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 557-563.	0.9	3
39	Cup-To-Neck Contact and Range of Motion after Total Hip Arthroplasty with Large Head Diameters: An Original Three-Dimensional Combined Gait and Videofluoroscopy Analysis. Applied Sciences (Switzerland), 2020, 10, 2695.	1.3	1
40	Kinect and wearable inertial sensors for motor rehabilitation programs at home: state of the art and an experimental comparison. BioMedical Engineering OnLine, 2020, 19, 25.	1.3	40
41	Does navigated patellar resurfacing in total knee arthroplasty result in proper bone cut, motion and clinical outcomes?. Clinical Biomechanics, 2019, 69, 168-177.	0.5	4
42	Validation of a novel Kinectâ€based device for 3D scanning of the foot plantar surface in weightâ€bearing. Journal of Foot and Ankle Research, 2019, 12, 46.	0.7	21
43	Comparison of cartilage and bone morphological models of the ankle joint derived from different medical imaging technologies. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1368-1382.	1.1	15
44	CoCr porous scaffolds manufactured via selective laser melting in orthopedics: Topographical, mechanical, and biological characterization. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2343-2353.	1.6	35
45	A methodology for the development of a Hinged Ankle-Foot Orthosis compatible with natural joint kinematics. Mechanisms and Machine Science, 2019, , 93-102.	0.3	3
46	Reliability of medial-longitudinal-arch measures for skin-markers based kinematic analysis. Journal of Biomechanics, 2019, 88, 180-185.	0.9	24
47	Weight-bearing CT Technology in Musculoskeletal Pathologies of the Lower Limbs: Techniques, Initial Applications, and Preliminary Combinations with Gait-Analysis Measurements at the Istituto Ortopedico Rizzoli. Seminars in Musculoskeletal Radiology, 2019, 23, 643-656.	0.4	27
48	Conventional versus computer-assisted surgery in total knee arthroplasty: comparison at ten years follow-up. International Orthopaedics, 2019, 43, 1355-1363.	0.9	26
49	Multi-segment foot models and their use in clinical populations. Gait and Posture, 2019, 69, 50-59.	0.6	72
50	Quantitative comparison of freeware software for bone mesh from DICOM files. Journal of Biomechanics, 2019, 84, 247-251.	0.9	18
51	New comprehensive procedure for customâ€made total ankle replacements: Medical imaging, joint modeling, prosthesis design, and 3D printing. Journal of Orthopaedic Research, 2019, 37, 760-768.	1.2	29
52	The Receptive and Propulsive Behavior of Human Foot Joints During Running With Different Striking Strategies. Journal of Applied Biomechanics, 2019, 35, 336-343.	0.3	2
53	Experimental evaluation of current and novel approximations of articular surfaces of the ankle joint. Journal of Biomechanics, 2018, 75, 159-163.	0.9	8
54	Effect of planoâ€valgus foot posture on midfoot kinematics during barefoot walking in an adolescent population. Journal of Foot and Ankle Research, 2018, 11, 55.	0.7	36

#	Article	IF	Citations
55	Integration of Foot Pressure and Foot Kinematics Measurements for Medical Applications. , 2018, , 789-810.		1
56	Analysis of surface-to-surface distance mapping during three-dimensional motion at the ankle and subtalar joints. Journal of Biomechanics, 2018, 76, 204-211.	0.9	29
57	Functional evaluation of bilateral subtalar arthroereisis for the correction of flexible flatfoot in children: 1-year follow-up. Gait and Posture, 2018, 64, 152-158.	0.6	29
58	Kinematic Foot Models for Instrumented Gait Analysis. , 2018, , 547-570.		0
59	Knee laxity modifications after ACL rupture and surgical intra- and extra-articular reconstructions: intra-operative measures in reconstructed and healthy knees. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 2725-2735.	2.3	26
60	Experimental evaluation of a new morphological approximation of the articular surfaces of the ankle joint. Journal of Biomechanics, 2017, 53, 97-104.	0.9	20
61	Relationship between bone adaptation and in-vivo mechanical stimulus in biological reconstructions after bone tumor: A biomechanical modeling analysis. Clinical Biomechanics, 2017, 42, 99-107.	0.5	5
62	In-vivo analysis of ankle joint movement for patient-specific kinematic characterization. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 831-838.	1.0	10
63	Kinematic models of lower limb joints for musculo-skeletal modelling and optimization in gait analysis. Journal of Biomechanics, 2017, 62, 77-86.	0.9	52
64	Corrosion Resistance and Mechanical Characterization of Ankle Prostheses Fabricated via Selective Laser Melting. Procedia CIRP, 2017, 65, 25-31.	1.0	11
65	Fluoroscopic and Gait Analyses for the Functional Performance ofÂaÂCustom-Made Total Talonavicular Replacement. Journal of Foot and Ankle Surgery, 2017, 56, 836-844.	0.5	10
66	In vivo kinematics of knee replacement during daily living activities: Condylar and post-cam contact assessment by three-dimensional fluoroscopy and finite element analyses. Journal of Orthopaedic Research, 2017, 35, 1396-1403.	1.2	24
67	Three-dimensional patellar tendon fibre kinematics in navigated TKA with and without patellar resurfacing. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 3834-3843.	2.3	3
68	Movement coordination patterns between the foot joints during walking. Journal of Foot and Ankle Research, 2017, 10, 47.	0.7	7
69	Validity and reliability of ankle morphological measurements on computerized tomography-synthesized planar radiographs. BioMedical Engineering OnLine, 2016, 15, 92.	1.3	7
70	How Much Clinical and Functional Impairment do Children Treated With Knee Rotationplasty Experience in Adulthood?. Clinical Orthopaedics and Related Research, 2016, 474, 995-1004.	0.7	30
71	Multiple linear regression approach for the analysis of the relationships between joints mobility and regional pressure-based parameters in the normal-arched foot. Journal of Biomechanics, 2016, 49, 3485-3491.	0.9	17
72	In shoe pressure measurements during different motor tasks while wearing safety shoes: The effect of custom made insoles vs. prefabricated and off-the-shelf. Gait and Posture, 2016, 50, 232-238.	0.6	28

#	Article	IF	Citations
73	A new protocol for wear testing of total knee prostheses from real joint kinematic data: Towards a scenario of realistic simulations of daily living activities. Journal of Biomechanics, 2016, 49, 2925-2931.	0.9	18
74	Fabrication of Coâ€“Crâ€“Mo endoprosthetic ankle devices by means of Selective Laser Melting (SLM). Materials and Design, 2016, 106, 60-68.	3.3	90
75	Custom-Made Total Talonavicular Replacement in a Professional Rock Climber. Journal of Foot and Ankle Surgery, 2016, 55, 1271-1275.	0.5	14
76	Kinematic Foot Models for Instrumented Gait Analysis. , 2016, , 1-24.		3
77	Knee Prosthesis Navigation. , 2016, , 129-149.		0
78	Integration of Foot Pressure and Foot Kinematics Measurements for Medical Applications. , 2016, , 1-22.		4
79	Pedobarographic and kinematic analysis in the functional evaluation of two postâ€operative forefoot offloading shoes. Journal of Foot and Ankle Research, 2015, 8, 59.	0.7	12
80	Functional and clinical evaluation at 5-year follow-up of a three-component prosthesis and osteochondral allograft transplantation for total ankle replacement. Clinical Biomechanics, 2015, 30, 59-65.	0.5	18
81	VARIATION OF THE ANKLE MOTION WITH THE PIVOT-POINT POSITION AS PREDICTED BY A SPHERICAL MODEL OF THE JOINT. Journal of Mechanics in Medicine and Biology, 2015, 15, 1540039.	0.3	1
82	Effects of frontal and sagittal thorax attitudes in gait on trunk and pelvis three-dimensional kinematics. Medical Engineering and Physics, 2015, 37, 1032-1036.	0.8	7
83	Wear simulation of total knee prostheses using load and kinematics waveforms from stair climbing. Journal of Biomechanics, 2015, 48, 3830-3836.	0.9	34
84	Kinematics and baropodometry of half-shoe versus full-outsole design for forefoot offloading in normal and pathological feet. Footwear Science, 2015, 7, S115-S117.	0.8	0
85	Joint kinematics from functional adaptation: A validation on the tibio-talar articulation. Journal of Biomechanics, 2015, 48, 2960-2967.	0.9	21
86	Functional and Clinical Assessment of Two Ankle Arthrodesis Techniques. Journal of Foot and Ankle Surgery, 2015, 54, 399-405.	0.5	13
87	Validation of the angular measurements of a new inertial-measurement-unit based rehabilitation system: comparison with state-of-the-art gait analysis. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 136.	2.4	72
88	Tibial component alignment and risk of loosening in unicompartmental knee arthroplasty: a radiographic and radiostereometric study. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 3157-3162.	2.3	69
89	A new protocol from real joint motion data for wear simulation in total knee arthroplasty: Stair climbing. Medical Engineering and Physics, 2014, 36, 1605-1610.	0.8	21
90	Threeâ€dimensional implant position and orientation after total knee replacement performed with patientâ€specific instrumentation systems. Journal of Orthopaedic Research, 2014, 32, 331-337.	1.2	14

#	Article	IF	Citations
91	Estimation of pelvis kinematics in level walking based on a single inertial sensor positioned close to the sacrum: validation on healthy subjects with stereophotogrammetric system. BioMedical Engineering OnLine, 2014, 13, 146.	1.3	36
92	Modifying the Rizzoli foot model to improve the diagnosis of pesâ€planus: application to kinematics of feet in teenagers. Journal of Foot and Ankle Research, 2014, 7, 754.	0.7	64
93	Can TKA design affect the clinical outcome? Comparison between two guided-motion systems. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 581-589.	2.3	60
94	Tibio-femoral and patello-femoral joint kinematics during navigated total knee arthroplasty with patellar resurfacing. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 1719-1727.	2.3	26
95	Intra- and post-operative accuracy assessments of two different patient-specific instrumentation systems for total knee replacement. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 621-629.	2.3	48
96	Biomechanics of the natural, arthritic, and replaced human ankle joint. Journal of Foot and Ankle Research, 2014, 7, 8.	0.7	65
97	Multi-segment foot mobility in a hinged ankle-foot orthosis: the effect of rotation axis position. Gait and Posture, 2014, 40, 274-277.	0.6	20
98	Threeâ€dimensional computer graphicsâ€based ankle morphometry with computerized tomography for total ankle replacement design and positioning. Clinical Anatomy, 2014, 27, 659-668.	1.5	43
99	Dynamic 3D scanning as a markerless method to calculate multi-segment foot kinematics during stance phase: Methodology and first application. Journal of Biomechanics, 2014, 47, 2531-2539.	0.9	18
100	Human knee laxity in ACL-deficient and physiological contralateral joints: intra-operative measurements using a navigation system. BioMedical Engineering OnLine, 2014, 13, 86.	1.3	14
101	Foot segments mobility and plantar pressure in the normal foot. Journal of Foot and Ankle Research, 2014, 7, .	0.7	4
102	Biomechanical assessment of two different surgical treatments for the correction of flat foot. Journal of Foot and Ankle Research, 2014, 7, .	0.7	0
103	One-degree-of-freedom spherical model for the passive motion of the human ankle joint. Medical and Biological Engineering and Computing, 2014, 52, 363-373.	1.6	21
104	Load along the tibial shaft during activities of daily living. Journal of Biomechanics, 2014, 47, 1198-1205.	0.9	11
105	Correlates between kinematics and baropodometric measurements for an integrated in-vivo assessment of the segmental foot function in gait. Journal of Biomechanics, 2014, 47, 2654-2659.	0.9	37
106	Three-dimensional motion analysis of the human knee joint: comparison between intra- and post-operative measurements. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2375-2383.	2.3	16
107	Early migration of the cemented tibial component of unicompartmental knee arthroplasty: a radiostereometry study. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2474-2479.	2.3	11
108	Functional performance of a total ankle replacement: thorough assessment by combining gait and fluoroscopic analyses. Clinical Biomechanics, 2013, 28, 79-87.	0.5	27

#	Article	IF	Citations
109	Effects of positioning on radiographic measurements of ankle morphology: a computerized tomography-based simulation study. BioMedical Engineering OnLine, 2013, 12, 131.	1.3	17
110	Inter-laboratory consistency of gait analysis measurements. Gait and Posture, 2013, 38, 934-939.	0.6	50
111	Functional evaluation of patients treated with osteochondral allograft transplantation for post-traumatic ankle arthritis: One year follow-up. Gait and Posture, 2013, 38, 945-950.	0.6	9
112	Load along the femur shaft during activities of daily living. Journal of Biomechanics, 2013, 46, 2002-2010.	0.9	14
113	Three-Dimensional Knee Kinematics by Conventional Gait Analysis for Eleven Motor Tasks of Daily Living: Typical Patterns and Repeatability. Journal of Applied Biomechanics, 2013, 29, 214-228.	0.3	5
114	Three-Dimensional Vertebral Wedging in Mild and Moderate Adolescent Idiopathic Scoliosis. PLoS ONE, 2013, 8, e71504.	1.1	26
115	Patellar Tracking in Computer-Assisted Surgery. , 2013, , 187-201.		1
116	Effect of Trunk Sagittal Attitude on Shoulder, Thorax and Pelvis Three-Dimensional Kinematics in Able-Bodied Subjects during Gait. PLoS ONE, 2013, 8, e77168.	1.1	15
117	Accuracy of Computer-Assisted Surgery. , 2013, , 3-20.		1
118	TKA: Measured Resection Technique. , 2013, , 27-42.		0
119	Kinematics of the Three Components of a Total Ankle Replacement: In Vivo Fluoroscopic Analysis. Foot and Ankle International, 2012, 33, 290-300.	1.1	25
120	Estimation of spatial-temporal gait parameters in level walking based on a single accelerometer: Validation on normal subjects by standard gait analysis. Computer Methods and Programs in Biomedicine, 2012, 108, 129-137.	2.6	148
121	Geometrical changes of knee ligaments and patellar tendon during passive flexion. Journal of Biomechanics, 2012, 45, 1886-1892.	0.9	38
122	Femoral loads during gait in a patient with massive skeletal reconstruction. Clinical Biomechanics, 2012, 27, 273-280.	0.5	36
123	Muscle activity around the knee and gait performance in unicompartmental knee arthroplasty patients: a comparative study on fixed- and mobile-bearing designs. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1042-1048.	2.3	42
124	Age-related changes in kinematics of the knee joint during deep squat. Knee, 2012, 19, 208-212.	0.8	26
125	Anatomical plantar pressure masking and foot models: potential for integration with marker position systems. Journal of Foot and Ankle Research, 2012, 5, .	0.7	4
126	Fluoroscopic and gait analyses for the assessment of the functional performance of an original total ankle replacement. Journal of Foot and Ankle Research, 2012, 5, .	0.7	0

#	Article	IF	Citations
127	Joint line is well restored when navigation surgery is performed for total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 495-502.	2.3	23
128	Navigation-assisted total knee arthroplasty in knees with osteoarthritis due to extra-articular deformity. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 546-551.	2.3	46
129	Position of the prosthesis components in total ankle replacement and the effect on motion at the replaced joint. International Orthopaedics, 2012, 36, 571-578.	0.9	30
130	A new protocol for multi-segment trunk kinematics. , 2011, , .		5
131	A one-degree-of-freedom spherical mechanism for human knee joint modelling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 725-735.	1.0	20
132	Multi-segment trunk kinematics during locomotion and elementary exercises. Clinical Biomechanics, 2011, 26, 562-571.	0.5	155
133	A new protocol for 3D assessment of foot during gait: Application on patients with equinovarus foot. Clinical Biomechanics, 2011, 26, 1033-1038.	0.5	22
134	Repeatability of a multi-segment foot protocol in adult subjects. Gait and Posture, 2011, 33, 133-135.	0.6	76
135	Early Clinical Results of the BOX Ankle Replacement Are Satisfactory: A Multicenter Feasibility Study of 158 Ankles. Journal of Foot and Ankle Surgery, 2011, 50, 641-647.	0.5	29
136	Inâ€Vivo knee kinematics in rotationally unconstrained total knee arthroplasty. Journal of Orthopaedic Research, 2011, 29, 1484-1490.	1.2	25
137	Does medio-lateral motion occur in the normal knee? An in-vitro study in passive motion. Journal of Biomechanics, 2011, 44, 877-884.	0.9	17
138	Effect of sub-optimal neuromotor control on the hip joint load during level walking. Journal of Biomechanics, 2011, 44, 1716-1721.	0.9	42
139	Can Patellar Tendon Angle reveal sagittal kinematics in total knee arthroplasty?. Knee Surgery, Sports Traumatology, Arthroscopy, 2010, 18, 949-954.	2.3	19
140	The Mark Coventry Award Articular: Contact Estimation in TKA Using In Vivo Kinematics and Finite Element Analysis. Clinical Orthopaedics and Related Research, 2010, 468, 19-28.	0.7	46
141	Total Ankle Replacement Compatible with Ligament Function Produces Mobility, Good Clinical Scores, and Low Complication Rates: An Early Clinical Assessment. Clinical Orthopaedics and Related Research, 2010, 468, 2746-2753.	0.7	35
142	Kinematic correlates of walking cadence in the foot. Journal of Biomechanics, 2010, 43, 2425-2433.	0.9	22
143	Articular surface approximation in equivalent spatial parallel mechanism models of the human knee joint: An experiment-based assessment. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1121-1132.	1.0	41
144	Repeatability of a new protocol for gait analysis in adult subjects. Gait and Posture, 2010, 32, 282-284.	0.6	33

#	Article	IF	Citations
145	Range of motion and repeatability of knee kinematics for 11 clinically relevant motor tasks. Gait and Posture, 2010, 32, 597-602.	0.6	31
146	Threeâ€dimensional patellar motion at the natural knee during passive flexion/extension. An in vitro study. Journal of Orthopaedic Research, 2009, 27, 1426-1431.	1.2	25
147	In vivo kinematics and kinetics of a biâ€cruciate substituting total knee arthroplasty: A combined fluoroscopic and gait analysis study. Journal of Orthopaedic Research, 2009, 27, 1569-1575.	1.2	63
148	Helical axis calculation based on Burmester theory: experimental comparison with traditional techniques for human tibiotalar joint motion. Medical and Biological Engineering and Computing, 2009, 47, 1207-1217.	1.6	11
149	A new one-DOF fully parallel mechanism for modelling passive motion at the human tibiotalar joint. Journal of Biomechanics, 2009, 42, 1403-1408.	0.9	34
150	Quantitative comparison of current models for trunk motion in human movement analysis. Clinical Biomechanics, 2009, 24, 542-550.	0.5	66
151	Wear behaviour in total ankle replacement: A comparison between an in vitro simulation and retrieved prostheses. Clinical Biomechanics, 2009, 24, 661-669.	0.5	25
152	A prospective randomized assessment of earlier functional recovery in THA patients treated by minimally invasive direct anterior approach: A gait analysis study. Clinical Biomechanics, 2009, 24, 812-818.	0.5	163
153	GAIT analysis in patients operated with a novel total ankle prosthesis. Gait and Posture, 2009, 30, 132-137.	0.6	56
154	International Foot and Ankle Biomechanics Community (iâ€FAB): past, present and beyond. Journal of Foot and Ankle Research, 2009, 2, 19.	0.7	0
155	Comparison of three standard anatomical reference frames for the tibiaâ€“fibula complex. Journal of Biomechanics, 2008, 41, 3384-3389.	0.9	20
156	Ankle morphometry in the Chinese population. Journal of Foot and Ankle Research, 2008, 1, .	0.7	6
157	Quantitative comparison of five current protocols in gait analysis. Gait and Posture, 2008, 28, 207-216.	0.6	283
158	Multiscale modelling of the skeleton for the prediction of the risk of fracture. Clinical Biomechanics, 2008, 23, 845-852.	0.5	36
159	Functional Outcome of Meniscal-Bearing Total Ankle Replacement. Journal of the American Podiatric Medical Association, 2008, 98, 19-26.	0.2	21
160	Alignment Deviation Between Bone Resection and Final Implant Positioning in Computer-Navigated Total Knee Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2008, 90, 765-771.	1.4	86
161	Rear-foot, mid-foot and fore-foot motion during the stance phase of gait. Gait and Posture, 2007, 25, 453-462.	0.6	545
162	A new anatomically based protocol for gait analysis in children. Gait and Posture, 2007, 26, 560-571.	0.6	358

#	Article	IF	Citations
163	Meniscal wear at a three-component total ankle prosthesis by a knee joint simulator. Journal of Biomechanics, 2007, 40, 1871-1876.	0.9	39
164	Alignment of resection planes in total knee replacement obtained with the conventional technique, as assessed by a modern computerâ€based navigation system. International Journal of Medical Robotics and Computer Assisted Surgery, 2007, 3, 117-124.	1.2	27
165	Multimod Data Manager: A tool for data fusion. Computer Methods and Programs in Biomedicine, 2007, 87, 148-159.	2.6	34
166	Patellar tracking during total knee arthroplasty: an in vitro feasibility study. Knee Surgery, Sports Traumatology, Arthroscopy, 2007, 15, 985-993.	2.3	49
167	Mathematical models of passive motion at the human ankle joint by equivalent spatial parallel mechanisms. Medical and Biological Engineering and Computing, 2007, 45, 305-313.	1.6	58
168	Alignments and Clinical Results in Conventional and Navigated Total Knee Arthroplasty. Clinical Orthopaedics and Related Research, 2007, 457, 156-162.	0.7	188
169	Gait Performance in an Original Biologic Reconstruction of Proximal Femur in a Skeletally Immature Child: A Case Report. Archives of Physical Medicine and Rehabilitation, 2006, 87, 1534-1541.	0.5	2
170	Wear patterns on tibial plateau from varus osteoarthritic knees. Clinical Biomechanics, 2006, 21, 152-158.	0.5	58
171	A new software tool for 3D motion analyses of the musculo-skeletal system. Clinical Biomechanics, 2006, 21, 870-879.	0.5	20
172	Finite element analysis of a total ankle replacement during the stance phase of gait. Journal of Biomechanics, 2006, 39, 1435-1443.	0.9	104
173	Double-step registration of in vivo stereophotogrammetry with both in vitro 6-DOFs electrogoniometry and CT medical imaging. Journal of Biomechanics, 2006, 39, 2087-2095.	0.9	32
174	Influence of tibial component posterior slope on in vivo knee kinematics in fixed-bearing total knee arthroplasty. Journal of Orthopaedic Research, 2006, 24, 581-587.	1.2	34
175	Femoral rollback of cruciate-retaining and posterior-stabilized total knee replacements: In vivo fluoroscopic analysis during activities of daily living. Journal of Orthopaedic Research, 2006, 24, 2222-2229.	1.2	109
176	Gait Analysis with an Integrated System for Functional Assessment of Talocalcaneal Coalition. Journal of the American Podiatric Medical Association, 2006, 96, 107-115.	0.2	19
177	BIOMECHANICS OF THE INTACT AND REPLACED HUMAN ANKLE JOINT. Journal of Mechanics in Medicine and Biology, 2006, 06, 39-46.	0.3	5
178	Effect of different inertial parameter sets on joint moment calculation during stair ascending and descending. Medical Engineering and Physics, 2005, 27, 537-541.	0.8	12
179	Advanced multimodal visualisation of clinical gait and fluoroscopy analyses in the assessment of total knee replacement. Computer Methods and Programs in Biomedicine, 2005, 79, 227-240.	2.6	12
180	Soft Tissue Artifact Compensation in Knee Kinematics by Double Anatomical Landmark Calibration: Performance of a Novel Method During Selected Motor Tasks. IEEE Transactions on Biomedical Engineering, 2005, 52, 992-998.	2.5	94

#	Article	IF	Citations
181	Articular contact at the tibiotalar joint in passive flexion. Journal of Biomechanics, 2005, 38, 1205-1212.	0.9	41
182	Mechanics of the anterior drawer test at the ankle: the effects of ligament viscoelasticity. Journal of Biomechanics, 2005, 38, 2118-2123.	0.9	11
183	MULTIMODAL DISPLAY INTERFACE FOR PLANNING AND MONITORING COMPLEX SKELETAL RECONSTRUCTIONS. Journal of Mechanics in Medicine and Biology, 2005, 05, 465-468.	0.3	1
184	POSTERIOR STABILIZED AND CRUCIATE RETAINING KNEE PROSTHESES: COMPARISON OF IN VIVO 3D KINEMATICS USING FLUOROSCOPY. Journal of Mechanics in Medicine and Biology, 2005, 05, 391-395.	0.3	0
185	Musculoskeletal-modelling-based design of a novel ankle prosthesis. Theoretical Issues in Ergonomics Science, 2005, 6, 335-341.	1.0	0
186	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 186-196.	0.6	449
187	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 197-211.	0.6	337
188	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 212-225.	0.6	946
189	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 226-237.	0.6	438
190	Ankle morphometry evaluated using a new semi-automated technique based on X-ray pictures. Clinical Biomechanics, 2005, 20, 307-311.	0.5	48
191	Quantification of soft tissue artefact in motion analysis by combining 3D fluoroscopy and stereophotogrammetry: a study on two subjects. Clinical Biomechanics, 2005, 20, 320-329.	0.5	231
192	Migration of Cemented Stem and Restrictor After Total Hip Arthroplasty. Journal of Arthroplasty, 2005, 20, 244-249.	1.5	14
193	On the Modeling of Passive Motion of the Human Knee Joint by Means of Equivalent Planar and Spatial Parallel Mechanisms. Autonomous Robots, 2004, 16, 219-232.	3.2	34
194	Mathematical model for pre-operative planning of linear and closing-wedge metatarsal osteotomies for the correction of hallux valgus. Medical and Biological Engineering and Computing, 2004, 42, 209-215.	1.6	12
195	Dynamic in-vivo tibio-femoral and bearing motions in mobile bearing knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2004, 12, 144-151.	2.3	41
196	A new semi-automated measurement technique based on X-ray pictures for ankle morphometry. Journal of Biomechanics, 2004, 37, 1113-1118.	0.9	23
197	Ligament fibre recruitment at the human ankle joint complex in passive flexion. Journal of Biomechanics, 2004, 37, 1823-1829.	0.9	15
198	The stability of the cemented tibial component of total knee arthroplasty. Journal of Arthroplasty, 2004, 19, 775-782.	1.5	65

#	Article	IF	Citations
199	Mobility of the Human Ankle and the Design of Total Ankle Replacement. Clinical Orthopaedics and Related Research, 2004, 424, 39-46.	0.7	75
200	Pre-operative planning and gait analysis of total hip replacement following hip fusion. Computer Methods and Programs in Biomedicine, 2003, 70, 215-221.	2.6	12
201	Ligament fibre recruitment and forces for the anterior drawer test at the human ankle joint. Journal of Biomechanics, 2003, 36, 363-372.	0.9	50
202	Femoral anatomical frame: assessment of various definitions. Medical Engineering and Physics, 2003, 25, 425-431.	0.8	38
203	Correspondence Letter. Journal of Biomechanics, 2003, 36, 303-304.	0.9	8
204	A global method based on thin-plate splines for correction of geometric distortion: An application to fluoroscopic images. Medical Physics, 2003, 30, 124-131.	1.6	38
205	Fluoroscopic and gait analysis of the functional performance in stair ascent of two total knee replacement designs. Gait and Posture, 2003, 17, 225-234.	0.6	75
206	Role of Passive Structures in the Mobility and Stability of the Human Subtalar Joint: A Literature Review. Foot and Ankle International, 2003, 24, 402-409.	1.1	57
207	Validation of the Interval Deformation Technique for Compensating Soft Tissue Artefact in Human Motion Analysis. , 2003, , 293-301.		4
208	A model for lever-arm length calculation of the flexor and extensor muscles at the ankle. Gait and Posture, 2002, 15, 220-229.	0.6	39
209	Computer-assisted preoperative planning of a novel design of total ankle replacement. Computer Methods and Programs in Biomedicine, 2002, 67, 231-243.	2.6	12
210	Dynamic simulation of the natural and replaced human ankle joint. Medical and Biological Engineering and Computing, 2002, 40, 193-199.	1.6	28
211	ISB recommendation on definitions of joint coordinate system of various joints for the reporting of human joint motionâ€"part I: ankle, hip, and spine. Journal of Biomechanics, 2002, 35, 543-548.	0.9	2,491
212	Geometry and mechanics of the human ankle complex and ankle prosthesis design. Clinical Biomechanics, 2001, 16, 706-709.	0.5	62
213	Computer-assisted design of the sagittal shapes of a ligament-compatible total ankle replacement. Medical and Biological Engineering and Computing, 2001, 39, 168-175.	1.6	46
214	Mobility of the subtalar joint in the intact ankle complex. Journal of Biomechanics, 2001, 34, 805-809.	0.9	122
215	EMG-based measures of fatigue during a repetitive squat exercise. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 133-143.	1.1	31
216	Effects of hip joint centre mislocation on gait analysis results. Journal of Biomechanics, 2000, 33, 1479-1487.	0.9	195

#	Article	IF	Citations
217	Cruciate ligament forces in the human knee during rehabilitation exercises. Clinical Biomechanics, 2000, 15, 176-187.	0.5	172
218	The Role of the Passive Structures in the Mobility and Stability of the Human Ankle Joint: A Literature Review. Foot and Ankle International, 2000, 21, 602-615.	1.1	107
219	Analysis of Function After Intra-articular Fracture of the Os Calcis. Foot and Ankle International, 1999, 20, 417-421.	1.1	37
220	Validation of a functional method for the estimation of hip joint centre location. Journal of Biomechanics, 1999, 32, 99-103.	0.9	359
221	Kinematics of the human ankle complex in passive flexion; a single degree of freedom system. Journal of Biomechanics, 1999, 32, 111-118.	0.9	173
222	A geometric model of the human ankle joint. Journal of Biomechanics, 1999, 32, 585-591.	0.9	190
223	An anatomically based protocol for the description of foot segment kinematics during gait. Clinical Biomechanics, 1999, 14, 528-536.	0.5	228
224	A model-based method for the reconstruction of total knee replacement kinematics. IEEE Transactions on Medical Imaging, 1999, 18, 981-991.	5.4	168
225	Data management in gait analysis for clinical applications. Clinical Biomechanics, 1998, 13, 204-215.	0.5	274
226	Multiple anatomical landmark calibration for optimal bone pose estimation. Human Movement Science, 1997, 16, 259-274.	0.6	119
227	Position and orientation in space of bones during movement: experimental artefacts. Clinical Biomechanics, 1996, 11, 90-100.	0.5	609
228	Optimization and smoothing techniques in movement analysis. International Journal of Bio-medical Computing, 1996, 41, 137-151.	0.5	56
229	Position and orientation in space of bones during movement: anatomical frame definition and determination. Clinical Biomechanics, 1995, 10, 171-178.	0.5	1,393
230	Location-Dependent Human Osteoarthritis Cartilage Response to Realistic Cyclic Loading: Ex-Vivo Analysis on Different Knee Compartments. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	3