

Ugo Della Croce

List of Publications by Year in descending order

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58
papers

6,202
citations

117625
34
h-index

155660
55
g-index

58
all docs

58
docs citations

58
times ranked

5252
citing authors

#	ARTICLE	IF	CITATIONS
1	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 212-225.	1.4	946
2	A kinematic and kinetic comparison of overground and treadmill walking in healthy subjects. Gait and Posture, 2007, 26, 17-24.	1.4	556
3	Biomechanical gait alterations independent of speed in the healthy elderly: Evidence for specific limiting impairments. Archives of Physical Medicine and Rehabilitation, 1998, 79, 317-322.	0.9	515
4	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 186-196.	1.4	449
5	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 226-237.	1.4	438
6	A Kinematics and Kinetic Comparison of Overground and Treadmill Running. Medicine and Science in Sports and Exercise, 2008, 40, 1093-1100.	0.4	352
7	Human movement analysis using stereophotogrammetry. Gait and Posture, 2005, 21, 197-211.	1.4	337
8	Estimation of step-by-step spatio-temporal parameters of normal and impaired gait using shank-mounted magneto-inertial sensors: application to elderly, hemiparetic, parkinsonian and choreic gait. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 152.	4.6	183
9	Skin movement artefact assessment and compensation in the estimation of knee-joint kinematics. Journal of Biomechanics, 1998, 31, 977-984.	2.1	173
10	Is every-day walking in older adults more analogous to dual-task walking or to usual walking? Elucidating the gaps between gait performance in the lab and during 24/7 monitoring. European Review of Aging and Physical Activity, 2019, 16, 6.	2.9	151
11	Effect of age on lower extremity joint moment contributions to gait speed. Gait and Posture, 2001, 14, 264-270.	1.4	132
12	Accuracy, sensitivity and robustness of five different methods for the estimation of gait temporal parameters using a single inertial sensor mounted on the lower trunk. Gait and Posture, 2014, 40, 487-492.	1.4	116
13	Moderate-Heeled Shoes and Knee Joint Torques Relevant to the Development and Progression of Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2005, 86, 871-875.	0.9	110
14	Bilateral step length estimation using a single inertial measurement unit attached to the pelvis. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 9.	4.6	93
15	A refined view of the determinants of gait. Gait and Posture, 2001, 14, 79-84.	1.4	91
16	The Effect of Running Shoes on Lower Extremity Joint Torques. PM and R, 2009, 1, 1058-1063.	1.6	90
17	SIAMOC position paper on gait analysis in clinical practice: General requirements, methods and appropriateness. Results of an Italian consensus conference. Gait and Posture, 2017, 58, 252-260.	1.4	82
18	Changes in the surface EMG signal and the biomechanics of motion during a repetitive lifting task. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 38-47.	4.9	77

#	ARTICLE	IF	CITATIONS
19	Propulsive adaptation to changing gait speed. <i>Journal of Biomechanics</i> , 2001, 34, 197-202.	2.1	74
20	A refined view of the determinants of gait: Significance of heel rise. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1077-1080.	0.9	73
21	Associations between daily-living physical activity and laboratory-based assessments of motor severity in patients with falls and Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019, 62, 85-90.	2.2	70
22	Comparison of three methods for estimating vertical displacement of center of mass during level walking in patients. <i>Gait and Posture</i> , 1996, 4, 306-314.	1.4	65
23	An innovative training program based on virtual reality and treadmill: effects on gait of persons with multiple sclerosis. <i>Disability and Rehabilitation</i> , 2017, 39, 1557-1563.	1.8	60
24	DYNAMIC IMPLICATIONS OF HIP FLEXION CONTRACTURES ¹ . <i>American Journal of Physical Medicine and Rehabilitation</i> , 1997, 76, 502-508.	1.4	59
25	Reconstruction of skeletal movement using skin markers: comparative assessment of bone pose estimators. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2006, 3, 7.	4.6	56
26	Quantification of pelvic rotation as a determinant of gait. <i>Archives of Physical Medicine and Rehabilitation</i> , 2001, 82, 217-220.	0.9	55
27	Identifying the location of human skeletal landmarks: why standardized definitions are necessary—a proposal. <i>Clinical Biomechanics</i> , 2005, 20, 659-660.	1.2	52
28	Rectus femoris: Its role in normal gait. <i>Archives of Physical Medicine and Rehabilitation</i> , 1999, 80, 930-934.	0.9	46
29	Lower limb joint kinetics in walking: The role of industry recommended footwear. <i>Gait and Posture</i> , 2011, 33, 350-355.	1.4	44
30	Testing of a tri-instrumented-treadmill unit for kinetic analysis of locomotion tasks in static and dynamic loading conditions. <i>Medical Engineering and Physics</i> , 2007, 29, 404-411.	1.7	41
31	A 2D Markerless Gait Analysis Methodology: Validation on Healthy Subjects. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-11.	1.3	41
32	Falls Risk in Relation to Activity Exposure in High-Risk Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1198-1205.	3.6	40
33	Knee joint torques: A comparison between women and men during barefoot walking. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1162-1165.	0.9	38
34	Validation of a Method for Real Time Foot Position and Orientation Tracking With Microsoft Kinect Technology for Use in Virtual Reality and Treadmill Based Gait Training Programs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 997-1002.	4.9	36
35	Sequencing sit-to-stand and upright posture for mobility limitation assessment: determination of the timing of the task phases from force platform data. <i>Gait and Posture</i> , 2005, 21, 425-431.	1.4	35
36	Total body centre of mass displacement estimated using ground reactions during transitory motor tasks: application to step ascent. <i>Medical Engineering and Physics</i> , 2004, 26, 791-798.	1.7	32

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37	Association between Physical Activity Levels and Physiological Factors Underlying Mobility in Young, Middle-Aged and Older Individuals Living in a City District. PLoS ONE, 2013, 8, e74227.	2.5	32
38	Accurately measuring human movement using magneto-inertial sensors: techniques and challenges. , 2015,, .		31
39	A novel design for an instrumented stairway. Journal of Biomechanics, 2007, 40, 702-704.	2.1	26
40	Objective measures to investigate turning impairments and freezing of gait in people with Parkinsonâ€™s disease. Gait and Posture, 2019, 74, 187-193.	1.4	26
41	Biomechanic effects of a contralateral shoe-lift on walking with an immobilized knee. Archives of Physical Medicine and Rehabilitation, 1997, 78, 1085-1091.	0.9	25
42	A Preliminary Assessment of a Novel Pneumatic Unloading Knee Brace on the Gait Mechanics of Patients With Knee Osteoarthritis. PM and R, 2013, 5, 816-824.	1.6	24
43	Static and Dynamic Accuracy of an Innovative Miniaturized Wearable Platform for Short Range Distance Measurements for Human Movement Applications. Sensors, 2017, 17, 1492.	3.8	24
44	Knee joint sagittal plane movement in cerebral palsy: a comparative study of 2-dimensional markerless video and 3-dimensional gait analysis. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 89, 656-661.	3.3	22
45	A wearable solution for accurate step detection based on the direct measurement of the inter-foot distance. Journal of Biomechanics, 2019, 84, 274-277.	2.1	22
46	Physiological modulation of gait variables by an active partial body weight support system. Journal of Biomechanics, 2007, 40, 3244-3250.	2.1	19
47	Automatic classification of gait in children with early-onset ataxia or developmental coordination disorder and controls using inertial sensors. Gait and Posture, 2017, 52, 287-292.	1.4	18
48	A markerless estimation of the ankleâ€™foot complex 2D kinematics during stance. Gait and Posture, 2011, 33, 532-537.	1.4	17
49	The effect of simulated scapular winging on glenohumeral joint translations. Journal of Shoulder and Elbow Surgery, 2013, 22, 986-992.	2.6	16
50	Scapular Motion Tracking Using Acromion Skin Marker Cluster: In Vitro Accuracy Assessment. Journal of Medical and Biological Engineering, 2015, 35, 94-103.	1.8	15
51	Bulk effect of the deltoid muscle on the glenohumeral joint. Journal of Experimental Orthopaedics, 2014, 1, 14.	1.8	14
52	Estimation of traversed distance in level walking using a single inertial measurement unit attached to the waist. , 2011, 2011, 1125-8.		13
53	The Effect of Supraspinatus Tears on Glenohumeral Translations in Passive Pitching Motion. American Journal of Sports Medicine, 2014, 42, 2455-2462.	4.2	13
54	Preliminary evaluation of a robotic apparatus for the analysis of passive glenohumeral joint kinematics. Journal of Orthopaedic Surgery and Research, 2013, 8, 24.	2.3	10

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55	In vivo glenohumeral translation under anterior loading in an open-MRI set-up. Journal of Biomechanics, 2014, 47, 3771-3775.	2.1	9
56	Knowledge discovery in databases of biomechanical variables: application to the sit to stand motor task. Journal of NeuroEngineering and Rehabilitation, 2004, 1, 7.	4.6	6
57	Effects on Normal Gait of a New Active Knee Orthosis for Hemiparetic Gait Retraining. , 2006, 2006, 1232-5.		6
58	Comparative evaluation of scapular and humeral coordinate systems based on biomedical images of the glenohumeral joint. Journal of Biomechanics, 2014, 47, 736-741.	2.1	6