

Carlo A Frigo

List of Publications by Year in descending order

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77
papers

4,105
citations

201674

27
h-index

138484

58
g-index

82
all docs

82
docs citations

82
times ranked

3552
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of External Loads and Muscle Forces on the Knee Joint Ligaments during Walking: A Musculoskeletal Model Study. Applied Sciences (Switzerland), 2021, 11, 2356.	2.5	9
2	Exploring the Embodiment of a Virtual Hand in a Spatially Augmented Respiratory Biofeedback Setting. Frontiers in Neurobotics, 2021, 15, 683653.	2.8	9
3	The Effects of the Rectus Femoris Muscle on Knee and Foot Kinematics during the Swing Phase of Normal Walking. Applied Sciences (Switzerland), 2020, 10, 7881.	2.5	8
4	Development and first evaluation of a RF-based rehabilitation system. , 2020, , .		0
5	Gait initiation in progressive supranuclear palsy: brain metabolic correlates. NeuroImage: Clinical, 2020, 28, 102408.	2.7	21
6	Using UHF RFID Properties to Develop and Optimize an Upper-Limb Rehabilitation System. Sensors, 2020, 20, 3224.	3.8	3
7	Gait Initiation in Parkinson's Disease: Impact of Dopamine Depletion and Initial Stance Condition. Frontiers in Bioengineering and Biotechnology, 2020, 8, 137.	4.1	32
8	Ankle Joint Dynamic Stiffness in Long-Distance Runners: Effect of Foot Strike and Shoes Features. Applied Sciences (Switzerland), 2019, 9, 4100.	2.5	11
9	An easily applicable method to analyse the ankle-foot power absorption and production during walking. Gait and Posture, 2019, 71, 56-61.	1.4	16
10	Sit-to-walk performance in Parkinson's disease: A comparison between faller and non-faller patients. Clinical Biomechanics, 2019, 63, 140-146.	1.2	22
11	Analysis and Comparison of Features and Algorithms to Classify Shoulder Movements From sEMG Signals. IEEE Sensors Journal, 2018, 18, 3714-3721.	4.7	21
12	O 061 - A method to compute the foot energy flow during walking. Gait and Posture, 2018, 65, 125-126.	1.4	0
13	A Novel Wearable Apparatus to Measure Fingertip Forces in Manipulation Tasks Based on MEMS Barometric Sensors. IEEE Transactions on Haptics, 2017, 10, 317-324.	2.7	14
14	Is lower peripheral information weighted differently as a function of step number during step climbing?. Gait and Posture, 2017, 52, 52-56.	1.4	3
15	Anticipatory postural adjustments of gait initiation in healthy subjects: The effect of interfoot distance. , 2017, , .		1
16	Alterations of load transfer mechanism during gait initiation in Parkinson's disease. , 2017, , .		2
17	Evaluation of respiratory- and postural-induced changes on the ballistocardiogram signal by time warping averaging. Physiological Measurement, 2017, 38, 1426-1440.	2.1	15
18	Ultra-short-term heart rate variability analysis on accelerometric signals from mobile phone. , 2017, , .		20

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19	Regularity assessment of cyclic human movements: An innovative method based on wearable sensors. , 2017, , .		0
20	Achieving ecological validity in mobility assessment: Validating a wearable sensor technology for comprehensive gait assessment. , 2017, , .		1
21	Gait initiation failure in patients with Progressive Supranuclear Palsy. Gait and Posture, 2016, 49, S28.	1.4	0
22	Beat-to-beat heart rate detection by smartphone's accelerometers: Validation with ECG. , 2016, 2016, 525-528.		24
23	A dynamic multibody model of the physiological knee to predict internal loads during movement in gravitational field. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 571-579.	1.6	20
24	Mechanical Energy Recovery during Walking in Patients with Parkinson Disease. PLoS ONE, 2016, 11, e0156420.	2.5	32
25	Processing of surface EMG through pattern recognition techniques aimed at classifying shoulder joint movements. , 2015, 2015, 2107-10.		8
26	Feasibility study for beat-to-beat heart rate detection by smartphone's accelerometers. , 2015, , .		6
27	Studying heart rate variability from ballistocardiography acquired by force platform: Comparison with conventional ECG. , 2015, , .		15
28	Gait Initiation in Children with Rett Syndrome. PLoS ONE, 2014, 9, e92736.	2.5	30
29	Influence of an eccentric load added at the back of the head on head-neck posture. Gait and Posture, 2013, 38, 951-955.	1.4	7
30	Walking efficiency assessment through the analysis of mechanical energy and energy recovery index. , 2013, , .		0
31	Influence of shoes and cover characteristics on the prosthetic feet Energy Storage and Release mechanism. , 2013, , .		0
32	Use a Portable Device for Measuring Spasticity in Individuals with Cerebral Palsy. Journal of Physical Therapy Science, 2013, 25, 271-275.	0.6	8
33	Gait asymmetry of transfemoral amputees using mechanical and microprocessor-controlled prosthetic knees. Clinical Biomechanics, 2012, 27, 460-465.	1.2	137
34	Functional Evaluation and Rehabilitation Engineering. IEEE Pulse, 2011, 2, 24-34.	0.3	7
35	Dynamics of the ankle joint analyzed through momentâ€‘angle loops during human walking: Gender and age effects. Human Movement Science, 2011, 30, 1185-1198.	1.4	53
36	Disable Workstation Development: A Multicompetence Approach to Human Behaviour Analysis. Lecture Notes in Computer Science, 2011, , 263-270.	1.3	0

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37	A dynamic model of quadriceps and hamstrings function. <i>Gait and Posture</i> , 2010, 31, 100-103.	1.4	28
38	Obituary for Dr. Paolo Crenna. <i>Gait and Posture</i> , 2010, 32, I-II.	1.4	0
39	Multichannel SEMG in clinical gait analysis: A review and state-of-the-art. <i>Clinical Biomechanics</i> , 2009, 24, 236-245.	1.2	161
40	Comparison of cartilage thickness with radiologic grade of knee osteoarthritis. <i>Skeletal Radiology</i> , 2008, 37, 639-643.	2.0	17
41	Quantitative comparison of five current protocols in gait analysis. <i>Gait and Posture</i> , 2008, 28, 207-216.	1.4	283
42	Effects of plantarflexion on pelvis and lower limb kinematics. <i>Gait and Posture</i> , 2008, 28, 150-156.	1.4	55
43	AN OBJECTIVE METHOD TO EVALUATE FORCE AND KNEE JOINT MOMENTS DURING ISOMETRIC EXTENSION. , 2008, , .		0
44	Semiautomated digital analysis of knee joint space width using MR images. <i>Skeletal Radiology</i> , 2007, 36, 437-444.	2.0	3
45	Hip joint anatomy virtual and stereolithographic reconstruction for preoperative planning of total hip replacement. <i>International Congress Series</i> , 2005, 1281, 708-712.	0.2	17
46	The heel-contact gait pattern of habitual toe walkers. <i>Gait and Posture</i> , 2005, 21, 311-317.	1.4	24
47	Evaluation of an ambulatory system for gait analysis in hip osteoarthritis and after total hip replacement. <i>Gait and Posture</i> , 2004, 20, 102-107.	1.4	156
48	The upper body segmental movements during walking by young females. <i>Clinical Biomechanics</i> , 2003, 18, 419-425.	1.2	97
49	Stair ascent and descent at different inclinations. <i>Gait and Posture</i> , 2002, 15, 32-44.	1.4	601
50	Standing-up exerciser based on functional electrical stimulation and body weight relief. <i>Medical and Biological Engineering and Computing</i> , 2002, 40, 282-289.	2.8	26
51	Ground reaction: intrinsic and extrinsic variability assessment and related method for artefact treatment. <i>Journal of Biomechanics</i> , 2001, 34, 363-370.	2.1	12
52	EMG signals detection and processing for on-line control of functional electrical stimulation. <i>Journal of Electromyography and Kinesiology</i> , 2000, 10, 351-360.	1.7	114
53	Patient-driven control of FES-supported standing up and sitting down: experimental results. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 2000, 8, 523-529.	1.4	69
54	Functional Control of the Hand in Tetraplegics Based on Residual Synergistic EMG Activity. <i>Artificial Organs</i> , 1999, 23, 470-473.	1.9	32

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55	Instrumented staircase for ground reaction measurement. <i>Medical and Biological Engineering and Computing</i> , 1999, 37, 526-529.	2.8	17
56	Changes in the excitability of soleus muscle short latency stretch reflexes during human hopping after 4 weeks of hopping training. <i>European Journal of Applied Physiology</i> , 1998, 78, 522-532.	2.5	93
57	Electromyographic signals during gait: Criteria for envelope filtering and number of strides. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 171-178.	2.8	132
58	Functionally oriented and clinically feasible quantitative gait analysis method. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 179-185.	2.8	129
59	Multifactorial estimation of hip and knee joint centres for clinical application of gait analysis. <i>Gait and Posture</i> , 1998, 8, 91-102.	1.4	45
60	Modelling the triceps surae muscle-tendon complex for the estimation of length changes during walking. <i>Journal of Electromyography and Kinesiology</i> , 1996, 6, 191-203.	1.7	14
61	Moment-angle relationship at lower limb joints during human walking at different velocities. <i>Journal of Electromyography and Kinesiology</i> , 1996, 6, 177-190.	1.7	115
62	Analysis of the Gait of Adults Who Had Residua of Congenital Dysplasia of the Hip*. <i>Journal of Bone and Joint Surgery - Series A</i> , 1996, 78, 1468-79.	3.0	62
63	A motor programme for the initiation of forward-oriented movements in humans.. <i>Journal of Physiology</i> , 1991, 437, 635-653.	2.9	357
64	Lower extremity angle measurement with accelerometers-error and sensitivity analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 1991, 38, 1186-1193.	4.2	79
65	Three-dimensional model for studying the dynamic loads on the spine during lifting. <i>Clinical Biomechanics</i> , 1990, 5, 143-152.	1.2	29
66	Muscular effort and musculoskeletal disorders in piano students: electromyographic, clinical and preventive aspects. <i>Ergonomics</i> , 1989, 32, 697-716.	2.1	36
67	Postural synergies in axial movements: short and long-term adaptation. <i>Experimental Brain Research</i> , 1989, 74, 3-10.	1.5	107
68	Forward and backward axial synergies in man. <i>Experimental Brain Research</i> , 1987, 65, 538-48.	1.5	241
69	Excitability of the soleus H-reflex arc during walking and stepping in man. <i>Experimental Brain Research</i> , 1987, 66, 49-60.	1.5	255
70	Hindered muscle relaxation in spasticity: experimental evidence suggesting a possible pathophysiological mechanism. <i>Italian Journal of Neurological Sciences</i> , 1985, 6, 481-489.	0.1	6
71	Sitting posture: analysis of lumbar stresses with upper limbs supported. <i>Ergonomics</i> , 1985, 28, 1333-1346.	2.1	49
72	Posture analysis. <i>Ergonomics</i> , 1985, 28, 275-284.	2.1	20

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73	Evidence of phase-dependent nociceptive reflexes during locomotion in man. <i>Experimental Neurology</i> , 1984, 85, 336-345.	4.1	63
74	Inverse model simulations of fast forward bending. , 0, , .		0
75	Respiratory Frequency Estimation from Accelerometric Signals Acquired by Mobile Phone in a Controlled Breathing Protocol. , 0, , .		1
76	Prosthetic and Orthotic Devices. , 0, , 788-852.		1
77	Prosthetic and Orthotic Devices. , 0, , 549-613.		1