FrÃ©dÃ©ric Dierick

List of Publications by Year
in descending order

Version: 2024-02-01

40 papers	820 citations	623734 14 h-index	501196 28 g-index
42 all docs	42 docs citations	42 times ranked	929 citing authors

#	Article	IF	Citations
1	Energy cost, mechanical work, and efficiency of hemiparetic walking. Gait and Posture, 2003, 18, 47-55.	1.4	227
2	A force measuring treadmill in clinical gait analysis. Gait and Posture, 2004, 20, 299-303.	1.4	90
3	Relationship between energy cost, gait speed, vertical displacement of centre of body mass and efficiency of pendulum-like mechanism in unilateral amputee gait. Gait and Posture, 2005, 21, 333-340.	1.4	71
4	Motion of the body centre of gravity as a summary indicator of the mechanics of human pathological gait. Gait and Posture, 2000, 12, 243-250.	1.4	63
5	Execution time, kinetics, and kinematics of themae-gerikick: Comparison of national and international standard karate athletes. Journal of Sports Sciences, 2011, 29, 1553-1561.	2.0	43
6	Timed Up and Go and Six-Minute Walking Tests with Wearable Inertial Sensor: One Step Further for the Prediction of the Risk of Fall in Elderly Nursing Home People. Sensors, 2020, 20, 3207.	3.8	41
7	Influence of gait pattern on the body's centre of mass displacement in children with cerebral palsy. Developmental Medicine and Child Neurology, 2004, 46, 674-680.	2.1	37
8	Development of displacement of centre of mass during independent walking in children. Developmental Medicine and Child Neurology, 2004, 46, 533-9.	2.1	26
9	Relationship between antagonistic leg muscles co-contractions and body centre of gravity mechanics in different level gait disorders. Journal of Electromyography and Kinesiology, 2002, 12, 59-66.	1.7	24
10	Determination of the vertical ground reaction forces acting upon individual limbs during healthy and clinical gait. Gait and Posture, 2016, 43, 245-250.	1.4	24
11	Fractal analyses reveal independent complexity and predictability of gait. PLoS ONE, 2017, 12, e0188711.	2.5	17
12	Nature of passive musculoarticular stiffness increase of ankle in female subjects with fibromyalgia syndrome. European Journal of Applied Physiology, 2011, 111, 2163-2171.	2.5	16
13	Hemorrhagic versus ischemic stroke: Who can best benefit from blended conventional physiotherapy with robotic-assisted gait therapy?. PLoS ONE, 2017, 12, e0178636.	2.5	16
14	Higher-derivative harmonic oscillators: stability of classical dynamics and adiabatic invariants. European Physical Journal C, 2019, 79, 1.	3.9	14
15	Influence of gait pattern on the body's centre of mass displacement in children with cerebral palsy. Developmental Medicine and Child Neurology, 2004, 46, 674-80.	2.1	14
16	DYSKIMOT: An Ultra-Low-Cost Inertial Sensor to Assess Headâ€™s Rotational Kinematics in Adults during the Didren-Laser Test. Sensors, 2020, 20, 833.	3.8	11
17	Head-neck rotational movements using DidRen laser test indicate children and seniorsâ€™ lower performance. PLoS ONE, 2019, 14, e0219515.	2.5	8
18	High Specificity of Single Inertial Sensor-Supplemented Timed Up and Go Test for Assessing Fall Risk in Elderly Nursing Home Residents. Sensors, 2022, 22, 2339.	3.8	8

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19	Clinical and MRI changes of puborectalis and iliococcygeus after a short period of intensive pelvic floor muscles training with or without instrumentation. European Journal of Applied Physiology, 2018, 118, 1661-1671.	2.5	7
20	Outcome assessment in osteoarthritic patients undergoing total knee arthroplasty. Acta Orthopaedica Belgica, 2004, 70, 38-45.	0.4	7
21	Machine Learning Identifies Chronic Low Back Pain Patients from an Instrumented Trunk Bending and Return Test. Sensors, 2022, 22, 5027.	3.8	6
22	Ergonomic Risk Assessment of Developing Musculoskeletal Disorders in Workers with the Microsoft Kinect: TRACK TMS. Irbm, 2018, 39, 436-439.	5.6	5
23	Benefits of nonlinear analysis indices of walking stride interval in the evaluation of neurodegenerative diseases. Human Movement Science, 2021, 75, 102741.	1.4	5
24	CogniViTra, a Digital Solution to Support Dual-Task Rehabilitation Training. Electronics (Switzerland), 2021, 10, 1304.	3.1	4
25	Age-related kinematic performance should be considered during fast head-neck rotation target task in individuals aged from 8 to 85 years old. PeerJ, 2019, 7, e7095.	2.0	4
26	An interactive e-learning module to promote bio-psycho-social management of low back pain in healthcare professionals: a pilot study. Journal of Manual and Manipulative Therapy, 2022, 30, 105-115.	1.2	4
27	Sensorimotor performance in acute-subacute non-specific neck pain: a non-randomized prospective clinical trial with intervention. BMC Musculoskeletal Disorders, 2021, 22, 1017.	1.9	4
28	Short-term increase in discsâ€™ apparent diffusion is associated with pain and mobility improvements after spinal mobilization for low back pain. Scientific Reports, 2018, 8, 8281.	3.3	3
29	Motor strategies and adiabatic invariants: The case of rhythmic motion in parabolic flights. Physical Review E, 2021, 104, 024403.	2.1	3
30	Perceived Usefulness of Telerehabilitation of Musculoskeletal Disorders: A Belgiumâ€“France Pilot Study during Second Wave of COVID-19 Pandemic. Healthcare (Switzerland), 2021, 9, 1605.	2.0	3
31	Head Pitch Angular Velocity Discriminates (Sub-)Acute Neck Pain Patients and Controls Assessed with the DidRen Laser Test. Sensors, 2022, 22, 2805.	3.8	3
32	Adiabatic invariants drive rhythmic human motion in variable gravity. Physical Review E, 2020, 102, 062403.	2.1	2
33	Digital natives and dual task: Handling it but not immune against cognitive-locomotor interferences. PLoS ONE, 2020, 15, e0232328.	2.5	2
34	Low-Cost Sensors and Biological Signals. Sensors, 2021, 21, 1482.	3.8	2
35	Asymptomatic Genu Recurvatum reshapes lower limb sagittal joint and elevation angles during gait at different speeds. Knee, 2021, 29, 457-468.	1.6	2
36	Metabolic Energy Expenditure and Accelerometer-Determined Physical Activity Levels in Post-Stroke Hemiparetic Patients. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106397.	1.6	2

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37	Unstable footwear as a speed-dependent noise-based training gear to exercise inverted pendulum motion during walking. Journal of Sports Sciences, 2018, 36, 2818-2826.	2.0	1
38	Three-Dimensional Spinal Position With and Without Manual Distraction Load Increases Spinal Height. Journal of Manipulative and Physiological Therapeutics, 2020, 43, 267-275.	0.9	1
39	Development of displacement of centre of mass during independent walking in children. Developmental Medicine and Child Neurology, 2004, 46, 533-539.	2.1	0
40	Fine adaptive precision grip control without maximum pinch strength changes after upper limb neurodynamic mobilization. Scientific Reports, 2021, 11, 14009.	3.3	0