Brian Horsak

List of Publications by Year
in descending order

28 papers	**435** citations	759055 **12** h-index	752573 **20** g-index
34 all docs	**34** docs citations	**34** times ranked	**495** citing authors

#	Article	IF	Citations
1	Accuracy of the LPM tracking system considering dynamic position changes. Journal of Sports Sciences, 2012, 30, 1503-1511.	1.0	79
2	Automatic Classification of Functional Gait Disorders. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1653-1661.	3.9	40
3	KAVAGait: Knowledge-Assisted Visual Analytics for Clinical Gait Analysis. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1528-1542.	2.9	30
4	Muscle co-contraction around the knee when walking with unstable shoes. Journal of Electromyography and Kinesiology, 2015, 25, 175-181.	0.7	25
5	GaitRec, a large-scale ground reaction force dataset of healthy and impaired gait. Scientific Data, 2020, 7, 143.	2.4	23
6	SONIGait: a wireless instrumented insole device for real-time sonification of gait. Journal on Multimodal User Interfaces, 2016, 10, 195-206.	2.0	22
7	Within-assessor reliability and minimal detectable change of gait kinematics in a young obese demographic. Gait and Posture, 2017, 54, 112-118.	0.6	22
8	Effects of toning shoes on lower extremity gait biomechanics. Clinical Biomechanics, 2013, 28, 344-349.	0.5	19
9	Explaining Machine Learning Models for Clinical Gait Analysis. ACM Transactions on Computing for Healthcare, 2022, 3, 1-27.	3.3	19
10	Effects of a lower extremity exercise program on gait biomechanics and clinical outcomes in children and adolescents with obesity: A randomized controlled trial. Gait and Posture, 2019, 70, 122-129.	0.6	17
11	The effects of a strength and neuromuscular exercise programme for the lower extremity on knee load, pain and function in obese children and adolescents: study protocol for a randomised controlled trial. Trials, 2015, 16, 586.	0.7	14
12	A Three-Dimensional Analysis of Finger and Bow String Movements During the Release in Archery. Journal of Applied Biomechanics, 2011, 27, 151-160.	0.3	13
13	Input representations and classification strategies for automated human gait analysis. Gait and Posture, 2020, 76, 198-203.	0.6	13
14	Is the reliability of 3D kinematics of young obese participants dependent on the hip joint center localization method used?. Gait and Posture, 2018, 59, 65-70.	0.6	12
15	A physiotherapy-directed occupational health programme for Austrian school teachers: a cluster randomised pilot study. Physiotherapy, 2014, 100, 20-26.	0.2	10
16	Serratus anterior and trapezius muscle activity during knee push-up plus and knee-plus exercises performed on a stable, an unstable surface and during sling-suspension. Physical Therapy in Sport, 2017, 23, 86-92.	0.8	10
17	Reliability of joint kinematic calculations based on direct kinematic and inverse kinematic models in obese children. Gait and Posture, 2018, 66, 201-207.	0.6	9
18	Trunk muscle activation levels during eight stabilization exercises used in the functional kinetics concept: A controlled laboratory study. Journal of Back and Musculoskeletal Rehabilitation, 2017, 30, 497-508.	0.4	8

#	Article	IF	Citations
19	A mobile music concept as support for achieving target heart rate in preventive and recreational endurance training. , 2010, , .		7
20	Reliability of walking and stair climbing kinematics in a young obese population using a standard kinematic and the CGM2 model. Gait and Posture, 2021, 83, 96-99.	0.6	6
21	Short-Term Effects of Real-Time Auditory Display (Sonification) on Gait Parameters in People with Parkinsonsâ€™ Diseaseâ€"A Pilot Study. Biosystems and Biorobotics, 2017, , 855-859.	0.2	6
22	Mind the Steps. , 2021, , .		6
23	Comparison of Bioelectrical Impedance-Based Methods on Body Composition in Young Patients with Obesity. Children, 2021, 8, 295.	0.6	4
24	An Auditory Feedback System in Use with People Aged +50 Years: Compliance and Modifications in Gait Pattern. Biosystems and Biorobotics, 2017, , 881-885.	0.2	4
25	3D free-hand ultrasound to register anatomical landmarks at the pelvis and localize the hip joint center in lean and obese individuals. Scientific Reports, 2021, 11, 10650.	1.6	2
26	Applicability and usability of an immersive virtual reality-based balance control exergame for prosthetic users: A pilot study with healthy individuals. Gait and Posture, 2020, 81, 157-158.	0.6	1
27	A strength and neuromuscular exercise programme did not improve body composition, nutrition and psychological status in children with obesity. Acta Paediatrica, International Journal of Paediatrics, 2021, 110, 288-289.	0.7	1
28	Evaluating the accuracy of a 3D free-hand ultrasound technique for bone segmentation in clinical gait analysis. Gait and Posture, 2020, 81, 335-336.	0.6	0