

Zdenek Svoboda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2751269/publications.pdf>

Version: 2024-02-01

109
papers

1,071
citations

471061

17
h-index

552369

26
g-index

118
all docs

118
docs citations

118
times ranked

1264
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole body coordination patterning in volleyball spikes under various task constraints: exploratory cluster analysis based on self-organising maps. <i>Sports Biomechanics</i> , 2023, 22, 1153-1167.	0.8	6
2	Kinetic analysis of volleyball spike jump among young female volleyball players. <i>International Journal of Performance Analysis in Sport</i> , 2022, 22, 66-76.	0.5	0
3	Effects of ankle Kinesioâ„¢ taping on jump biomechanics in collegiate athletes with chronic ankle instability. <i>Sport Sciences for Health</i> , 2022, 18, 839-846.	0.4	2
4	Hamstring and ACL injuries impacts on hamstring-to-quadriceps ratio of the elite soccer players: A retrospective study. <i>Physical Therapy in Sport</i> , 2022, 53, 97-104.	0.8	2
5	The effects of mobile phone use on motor variability patterns during gait. <i>PLoS ONE</i> , 2022, 17, e0267476.	1.1	0
6	The immediate effects of sensorimotor foot orthoses on foot kinematics in healthy adults. <i>Gait and Posture</i> , 2021, 84, 93-101.	0.6	4
7	Contribution of lower limb muscle strength to walking, postural sway and functional performance in elderly women. <i>Isokinetics and Exercise Science</i> , 2021, 29, 49-57.	0.2	2
8	Balance abilities of junior ice hockey players. <i>Journal of Sports Medicine and Physical Fitness</i> , 2021, 61, 183-187.	0.4	1
9	Analysis of Whole-Body Coordination Patterning in Successful and Faulty Spikes Using Self-Organising Map-Based Cluster Analysis: A Secondary Analysis. <i>Sensors</i> , 2021, 21, 1345.	2.1	3
10	Ankle-knee coupling responses to ankle Kinesioâ„¢ taping during single-leg drop landings in collegiate athletes with chronic ankle instability. <i>Journal of Sports Medicine and Physical Fitness</i> , 2021, 61, 582-591.	0.4	3
11	Lower-Extremity Intra-Joint Coordination and Its Variability between Fallers and Non-Fallers during Gait. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2840.	1.3	8
12	Gait Variability and Complexity during Single and Dual-Task Walking on Different Surfaces in Outdoor Environment. <i>Sensors</i> , 2021, 21, 4792.	2.1	18
13	Acute Effect of Ankle Kinesioâ„¢ Taping on Lower-Limb Biomechanics During Single-Legged Drop Landing. <i>Journal of Sport Rehabilitation</i> , 2021, 30, 689-696.	0.4	1
14	Lower limb joint angles and their variability during uphill walking. <i>Gait and Posture</i> , 2021, 90, 434-440.	0.6	7
15	Postural Control Strategies and Balance-Related Factors in Individuals with Traumatic Transtibial Amputations. <i>Sensors</i> , 2021, 21, 7284.	2.1	3
16	Acute Effect of Ankle Kinesio and Athletic Taping on Ankle Range of Motion During Various Agility Tests in Athletes With Chronic Ankle Sprain. <i>Journal of Sport Rehabilitation</i> , 2020, 29, 527-532.	0.4	19
17	Basketball players possess a higher bone mineral density than matched non-athletes, swimming, soccer, and volleyball athletes: a systematic review and meta-analysis. <i>Archives of Osteoporosis</i> , 2020, 15, 123.	1.0	21
18	The effect of ankle Kinesioâ„¢ taping on ankle joint biomechanics during unilateral balance status among collegiate athletes with chronic ankle sprain. <i>Physical Therapy in Sport</i> , 2020, 45, 161-167.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Force-time curve variables of countermovement jump as predictors of volleyball spike jump height. German Journal of Exercise and Sport Research, 2020, 50, 470-476.	1.0	7
20	A comparison of coordination and its variability in lower extremity segments during treadmill and overground running at different speeds. Gait and Posture, 2020, 79, 139-144.	0.6	22
21	Kinematic differences between successful and faulty spikes in young volleyball players. Journal of Sports Sciences, 2020, 38, 2314-2320.	1.0	19
22	Gender and Age Related Differences in Leg Stiffness and Reactive Strength in Adolescent Team Sports Players. Journal of Human Kinetics, 2020, 74, 119-129.	0.7	3
23	The Effect of Age and Anthropometric and Somatic Variables on Agility Performance in Adolescent Ice Hockey Players. Studia Sportiva, 2020, 14, 57-63.	0.0	0
24	Standing balance of professional ballet dancers and non-dancers under different conditions. PLoS ONE, 2019, 14, e0224145.	1.1	19
25	Effect of aging on the association between ankle muscle strength and the control of bipedal stance. PLoS ONE, 2019, 14, e0223434.	1.1	14
26	Nonlinear approach to study the acute effects of static and dynamic stretching on local dynamic stability in lower extremity joint kinematics and muscular activity during pedalling. Human Movement Science, 2019, 66, 440-448.	0.6	4
27	Does maturation influence neuromuscular performance and muscle damage after competitive match-play in youth male soccer players?. European Journal of Sport Science, 2019, 19, 1130-1139.	1.4	15
28	Acute neuromuscular responses in upper limb after nordic walking training in youth females. Cuadernos De Psicologia Del Deporte, 2019, 19, 168-178.	0.2	1
29	Comparison of Step Count Assessed Using Wrist- and Hip-Worn Actigraph GT3X in Free-Living Conditions in Young and Older Adults. Frontiers in Medicine, 2019, 6, 252.	1.2	25
30	Effect of COL5A1, GDF5, and PPARA Genes on a Movement Screen and Neuromuscular Performance in Adolescent Team Sport Athletes. Journal of Strength and Conditioning Research, 2019, 33, 2057-2065.	1.0	19
31	Experience Related Impacts on Jump Performance of Elite and Collegiate Basketball Players; Investigation on Force-Time Curvature Variables. Sport Mont, 2019, 17, .	0.1	6
32	Gait symmetry measures: A review of current and prospective methods. Biomedical Signal Processing and Control, 2018, 42, 89-100.	3.5	110
33	Agility profile in collegiate athletes with chronic ankle sprain: the effect of Athletic and Kinesio taping among both genders. Sport Sciences for Health, 2018, 14, 407-414.	0.4	11
34	Advanced conservative treatment of complete acute rupture of the lateral ankle ligaments: Verifying by stabilometry. Foot and Ankle Surgery, 2018, 24, 65-70.	0.8	11
35	The Effects of Nordic Walking and Slope of the Ground on Lower Limb Muscle Activity. Journal of Strength and Conditioning Research, 2018, 32, 217-222.	1.0	4
36	Quantifying postural stability of patients with cerebellar disorder during quiet stance using three-axis accelerometer. Biomedical Signal Processing and Control, 2018, 40, 378-384.	3.5	12

#	ARTICLE	IF	CITATIONS
37	Length of the Center of Pressure Plot: Technique for Quantifying Gait Performance. , 2018, , .		0
38	Postural Stability Evaluation of Patients Undergoing Vestibular Schwannoma Microsurgery Employing the Inertial Measurement Unit. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-10.	1.1	3
39	Local dynamic stability during gait for predicting falls in elderly people: A one-year prospective study. <i>PLoS ONE</i> , 2018, 13, e0197091.	1.1	39
40	Reliability of Ankleâ€“Foot Complex Isokinetic Strength Assessment Using the Isomed 2000 Dynamometer. <i>Medicina (Lithuania)</i> , 2018, 54, 43.	0.8	18
41	P 015 â€“ Gait kinematics in patients after revision total hip replacement. <i>Gait and Posture</i> , 2018, 65, 254-255.	0.6	0
42	P 002 â€“ Ankle muscle strength and its relationship to the lower trunk movement during running. <i>Gait and Posture</i> , 2018, 65, 237-238.	0.6	0
43	Relationships between force-time curve variables and jump height during countermovement jumps in young elite volleyball players. <i>Acta Gymnica</i> , 2018, 48, 9-14.	1.1	12
44	Evaluation of Gait and Standing Posture by Software Based on SimMechanics. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 387-394.	0.5	0
45	Balance Performance During Perturbed Standing Is Not Associated With Muscle Strength and Power in Young Adults. <i>Journal of Motor Behavior</i> , 2017, 49, 514-523.	0.5	5
46	Intra- and inter-session reliability of traditional and entropy-based variables describing stance on a wobble board. <i>Medical Engineering and Physics</i> , 2017, 50, 29-34.	0.8	12
47	Evaluation of Plantar Pressure Distribution in Relationship to Body Mass Index in Czech Women During Walking. <i>Journal of the American Podiatric Medical Association</i> , 2017, 107, 208-214.	0.2	10
48	Multiscale and Shannon entropies during gait as fall risk predictorsâ€”A prospective study. <i>Gait and Posture</i> , 2017, 52, 5-10.	0.6	22
49	Evaluation of the effect of heel lift on postural stability and symmetry of muscle activity. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2017, 30, 1037-1044.	0.4	2
50	Variability of spatial temporal gait parameters and center of pressure displacements during gait in elderly fallers and nonfallers: A 6-month prospective study. <i>PLoS ONE</i> , 2017, 12, e0171997.	1.1	36
51	Effect of in-season neuromuscular and proprioceptive training on postural stability in male youth basketball players. <i>Acta Gymnica</i> , 2017, 47, 144-149.	1.1	9
52	Interior and closure operators on commutative basic algebras. <i>Mathematica Slovaca</i> , 2017, 67, 23-32.	0.3	0
53	Relation between knee extensors' strength, postural stability and variability of centre of pressure displacement during gait in adult women. <i>Acta Gymnica</i> , 2017, 47, 11-15.	1.1	0
54	The effect of perceived exertion on balance in patients with chronic respiratory diseases. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Lower Limb Loading during Gait in Patients Long Period after Total Hip Arthroplasty Revision. BioMed Research International, 2016, 2016, 1-6.	0.9	1
56	Quantification of Trunk Postural Stability Using Convex Polyhedron of the Time-Series Accelerometer Data. Journal of Healthcare Engineering, 2016, 2016, 1-9.	1.1	8
57	The effect of brisk walking on postural stability, bone mineral density, body weight and composition in women over 50 years with a sedentary occupation: a randomized controlled trial. BMC Women's Health, 2016, 16, 63.	0.8	20
58	Evaluation of Explosive Power Performance in Ski Jumpers and Nordic Combined Competitive Athletes. Journal of Strength and Conditioning Research, 2016, 30, 71-80.	1.0	4
59	Hallux valgus surgery affects kinematic parameters during gait. Clinical Biomechanics, 2016, 40, 20-26.	0.5	20
60	Postural instability assessment using trunk acceleration frequency analysis. European Journal of Physiotherapy, 2016, 18, 237-244.	0.7	6
61	Relationships between movements of the lower limb joints and the pelvis in open and closed kinematic chains during a gait cycle. Journal of Human Kinetics, 2016, 51, 37-43.	0.7	24
62	Functional clinical typology of the foot and kinematic gait parameters. Acta Gymnica, 2016, 46, 74-81.	1.1	4
63	The effect of fatigue on bipedal postural control in patients with severe chronic obstructive pulmonary disease. , 2016, , .		0
64	Incremental shuttle walk test as an indicator of decreased exercise tolerance in patients with chronic obstructive pulmonary disease. Acta Gymnica, 2016, 46, 117-121.	1.1	0
65	Differences in foot loading during Incremental shuttle walked test between patients with severe chronic obstructive pulmonary disease and healthy controls. , 2016, , .		0
66	The Gluteus Medius Vs. Thigh Muscles Strength Ratio and Their Relation to Electromyography Amplitude During a Farmer's Walk Exercise. Journal of Human Kinetics, 2015, 45, 157-165.	0.7	10
67	Does the Dumbbell-Carrying Position Change the Muscle Activity in Split Squats and Walking Lunges?. Journal of Strength and Conditioning Research, 2015, 29, 3177-3187.	1.0	36
68	An evaluation method of complex movement of the arm during walking based on gyroscope data and angle-angle diagram. , 2015, , .		2
69	Ski-jumpers' performance in a laboratory setting: a 29-year longitudinal study. Journal of Sports Sciences, 2015, 33, 687-695.	1.0	3
70	Assessment of postural stability in patients with cerebellar disease using gyroscope data. Journal of Bodywork and Movement Therapies, 2015, 19, 421-428.	0.5	3
71	The benefit of hippotherapy for improvement of attention and memory in children with cerebral palsy: A pilot study. Acta Gymnica, 2015, 45, 27-32.	1.1	6
72	Analysis of muscle activity in various performance levels of Ollie jumps in skateboarding: A pilot study. Acta Gymnica, 2015, 45, 41-44.	1.1	4

#	ARTICLE	IF	CITATIONS
73	System of gait analysis based on ground reaction force assessment. Acta Gymnica, 2015, 45, 187-193.	1.1	31
74	Effect of lower limb preference on variability of centre of pressure movement during gait. Acta Gymnica, 2015, 45, 203-207.	1.1	3
75	Maximal walking as a risk factor of impairment of platelet aggregation in COPD subjects. , 2015, , .		0
76	Bipedal postural control in severe COPD patients with bronchitic and emphysematic phenotype. , 2015, , .		0
77	Kinematic analysis of preterm newborns' spontaneous movements for postural activity assessment. Biomedical Papers of the Medical Faculty of the University Palacký́, Olomouc, Czechoslovakia, 2015, 159, 657-660.	0.2	2
78	Relationship between body composition and bone mineral density of the lumbar spine and proximal femur: influence of years since menopause. Modern Rheumatology, 2014, 24, 505-510.	0.9	7
79	Evaluation of muscular moment asymmetry using bilateral cyclograms. , 2014, , .		1
80	Fuzzy expert system for determining the human gait phase. , 2014, , .		2
81	Interior and closure operators on bounded residuated lattices. Open Mathematics, 2014, 12, .	0.5	4
82	Timeâ€“motion analysis of basketball players: a reliability assessment of Video Manual Motion Tracker 1.0 software. Journal of Sports Sciences, 2014, 32, 53-59.	1.0	29
83	Variability of centre of pressure movement during gait in young and middle-aged women. Gait and Posture, 2014, 40, 399-402.	0.6	30
84	Quantification of gait asymmetry in patients with ankle foot orthoses based on hipâ€“hip cyclograms. Biocybernetics and Biomedical Engineering, 2014, 34, 46-52.	3.3	9
85	Kinematic analysis of the gait in professional ballet dancers. Acta Gymnica, 2014, 44, 85-91.	1.1	7
86	Assessment of postural stability in overweight and obese middle-aged women. Acta Gymnica, 2014, 44, 149-153.	1.1	12
87	Kinematic gait analysis in children with valgus deformity of the hindfoot. Acta of Bioengineering and Biomechanics, 2014, 16, 89-93.	0.2	11
88	Knee joint muscles neuromuscular activity during load-carrying walking. Neuroendocrinology Letters, 2014, 35, 633-9.	0.2	6
89	The use of artificial neural networks to predict the muscle behavior. Open Engineering, 2013, 3, .	0.7	4
90	Limits of Stability in Persons With Transtibial Amputation With Respect to Prosthetic Alignment Alterations. Archives of Physical Medicine and Rehabilitation, 2013, 94, 2234-2240.	0.5	35

#	ARTICLE	IF	CITATIONS
91	Relation Between Sophisticated Measurements and Biomechanics Teaching. Procedia, Social and Behavioral Sciences, 2013, 83, 125-129.	0.5	0
92	ASSESSMENT OF POSTURAL STABILITY IN SUBJECTS WITH LUMBAR DISC HERNIATION. British Journal of Sports Medicine, 2013, 47, e3.33-e3.	3.1	1
93	Kinematic Chains in Ski Jumping In-run Posture. Journal of Human Kinetics, 2013, 39, 67-73.	0.7	6
94	Characterization of Human Gait using Fuzzy Logic. Acta Polytechnica, 2013, 53, .	0.3	3
95	The correlation between isokinetic strength of knee extensors and vertical jump performance in adolescent soccer players in an annual training cycle. Acta Gymnica, 2013, 43, 7-15.	1.1	4
96	Test-retest reliability of the net joint power transferred by the lower limbs during walking in healthy men. Acta Gymnica, 2013, 43, 7-15.	1.1	2
97	The effect of hippotherapy on gait in patients with spastic cerebral palsy. Acta Gymnica, 2013, 43, 17-23.	1.1	3
98	Variability of kinetic variables during gait in unilateral transtibial amputees. Prosthetics and Orthotics International, 2012, 36, 225-230.	0.5	33
99	Fuzzy inference system for lower limbs angles prediction. , 2012, , .		1
100	The influence of valgus heel position on foot loading in a child's gait. Acta Gymnica, 2012, 42, 57-63.	1.1	0
101	Effect of Modified Visual Information on Postural Balance of Unilateral Transfemoral Amputees during Quiet Standing. Medicine and Science in Sports and Exercise, 2011, 43, 922.	0.2	0
102	Kinematic Analysis of the Take-Off and Start of the Early Flight Phase on a Large Hill (HS-134 m) during the 2009 Nordic World Ski Championships. Journal of Human Kinetics, 2011, 27, 5-16.	0.7	15
103	Evaluation of Postural Asymmetry and Gross Joint Mobility in Elite Female Volleyball Athletes. Journal of Human Kinetics, 2011, 29, 5-13.	0.7	25
104	Kinematical analysis, pole forces and energy cost of Nordic walking: Slope influence. Acta Gymnica, 2011, 41, 27-34.	1.1	5
105	Analysis of the beginning of the early flight phase of the ski jump in athletes with different performance levels. Acta Gymnica, 2011, 41, 7-13.	1.1	6
106	Does the rider influence the horse's movement in hippotherapy?. Acta Gymnica, 2011, 41, 37-41.	1.1	5
107	Kinematic analysis of the flight phase of the Nordic combined and ski jump on a large hill (HS-134 m) during the 2009 Nordic World Ski Championships. Acta of Bioengineering and Biomechanics, 2011, 13, 19-25.	0.2	2
108	Kinematic Analysis of Gait in Patients with Juvenile Hallux Valgus Deformity. Journal of Biomechanical Science and Engineering, 2008, 3, 390-398.	0.1	12

#	ARTICLE	IF	CITATIONS
109	KINEMATIC ANALYSIS OF GAIT IN PATIENTS WITH JUVENILE HALLUX VALGUS DEFORMITY(1B3 Orthopaedic) Tj ETQq1 1 0.784314 rgE Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S36.	0.0	0