Sukyung Park

List of Publications by Year
in descending order

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36	1,224	567281	414414
papers	citations	15 h-index	32 g-index

36	36	36	977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Postural feedback responses scale with biomechanical constraints in human standing. Experimental Brain Research, 2004, 154, 417-427.	1.5	258
2	Vestibular Perception and Action Employ Qualitatively Different Mechanisms. I. Frequency Response of VOR and Perceptual Responses During Translation and Tilt. Journal of Neurophysiology, 2005, 94, 186-198.	1.8	147
3	Leg stiffness increases with speed to modulate gait frequency and propulsion energy. Journal of Biomechanics, 2011, 44, 1253-1258.	2.1	113
4	Vestibular Perception and Action Employ Qualitatively Different Mechanisms. II. VOR and Perceptual Responses During Combined Tilt&Translation. Journal of Neurophysiology, 2005, 94, 199-205.	1.8	112
5	Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. Sensors, 2020, 20, 130.	3.8	84
6	Postural Feedback Scaling Deficits in Parkinson's Disease. Journal of Neurophysiology, 2009, 102, 2910-2920.	1.8	81
7	The bending stiffness of shoes is beneficial to running energetics if it does not disturb the natural MTP joint flexion. Journal of Biomechanics, 2017, 53, 127-135.	2.1	72
8	Spring-like gait mechanics observed during walking in both young and older adults. Journal of Biomechanics, 2013, 46, 77-82.	2.1	45
9	A gravitational impulse model predicts collision impulse and mechanical work during a step-to-step transition. Journal of Biomechanics, 2011, 44, 59-67.	2.1	27
10	Perturbation-dependent selection of postural feedback gain and its scaling. Journal of Biomechanics, 2012, 45, 1379-1386.	2.1	24
11	Compliant bipedal model with the center of pressure excursion associated with oscillatory behavior of the center of mass reproduces the human gait dynamics. Journal of Biomechanics, 2014, 47, 223-229.	2.1	24
12	Resonance-based oscillations could describe human gait mechanics under various loading conditions. Journal of Biomechanics, 2014, 47, 319-322.	2.1	23
13	Golf Swing Segmentation from a Single IMU Using Machine Learning. Sensors, 2020, 20, 4466.	3.8	23
14	Roll Rotation Cues Influence Roll Tilt Perception Assayed Using a Somatosensory Technique. Journal of Neurophysiology, 2006, 96, 486-491.	1.8	22
15	Estimation of Three-Dimensional Lower Limb Kinetics Data during Walking Using Machine Learning from a Single IMU Attached to the Sacrum. Sensors, 2020, 20, 6277.	3.8	21
16	The oscillatory behavior of the CoM facilitates mechanical energy balance between push-off and heel strike. Journal of Biomechanics, 2012, 45, 326-333.	2.1	19
17	Estimation of unmeasured ground reaction force data based on the oscillatory characteristics of the center of mass during human walking. Journal of Biomechanics, 2018, 71, 135-143.	2.1	15
18	Kinematics of lower limbs during walking are emulated by springy walking model with a compliantly connected, off-centered curvy foot. Journal of Biomechanics, 2018, 71, 119-126.	2.1	14

#	Article	IF	Citations
19	Gait strategy changes with acceleration to accommodate the biomechanical constraint on push-off propulsion. Journal of Biomechanics, 2012, 45, 2920-2926.	2.1	11
20	Countermovement strategy changes with vertical jump height to accommodate feasible force constraints. Journal of Biomechanics, 2014, 47, 3162-3168.	2.1	11
21	Computational evaluation of load carriage effects on gait balance stability. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1127-1136.	1.6	11
22	A mechanical model of stereocilia that demonstrates a shift in the high-sensitivity region due to the interplay of a negative stiffness and an adaptation mechanism. Bioinspiration and Biomimetics, 2012, 7, 046013.	2.9	9
23	A bipedal compliant walking model generates periodic gait cycles with realistic swing dynamics. Journal of Biomechanics, 2019, 91, 79-84.	2.1	9
24	A mechanical model of the gating spring mechanism of stereocilia. Journal of Biomechanics, 2009, 42, 2158-2164.	2.1	8
25	Effect of reduced cutaneous cues on motion perception and postural control. Experimental Brain Research, 2009, 195, 361-369.	1.5	8
26	Spring-loaded inverted pendulum modeling improves neural network estimation of ground reaction forces. Journal of Biomechanics, 2020, 113, 110069.	2.1	8
27	A springy pendulum could describe the swing leg kinetics of human walking. Journal of Biomechanics, 2016, 49, 1504-1509.	2.1	7
28	Estimation of Unmeasured Golf Swing of Arm Based on the Swing Dynamics. International Journal of Precision Engineering and Manufacturing, 2018, 19, 745-751.	2.2	6
29	Estimation of the ground reaction forces from a single video camera based on the spring-like center of mass dynamics of human walking. Journal of Biomechanics, 2020, 113, 110074.	2.1	5
30	Increase of push-off propulsion to compensate heel strike loss during step-to-step transition is limited at faster gait speeds. International Journal of Precision Engineering and Manufacturing, 2013, 14, 825-829.	2.2	3
31	A modeling study of mechanical energetic optimality in incline walking. Journal of Mechanical Science and Technology, 2014, 28, 1393-1401.	1.5	3
32	Compliant walking model with a curvy foot reflecting the position of ankle on reproducing the ankle torque profile. Journal of Mechanical Science and Technology, 2015, 29, 2307-2311.	1.5	1
33	Effect of Awareness about Sensory Conflict to Linear Motion Perception. Journal of Biomechanical Science and Engineering, 2012, 7, 399-405.	0.3	0
34	A gain-scheduling approach to model human simultaneous visual tracking and balancing. , 2013, , .		0
35	Loaded Versus Unloaded Gait Balance Stability: A Measure of Dynamic Walking. , 2015, , .		0
36	Reproduction of Walking Asymmetry in Knee Osteoarthritis with Split-Belt Conditions. Journal of the Korean Society for Precision Engineering, 2015, 32, 885-890.	0.2	0