

Heiko Wagner

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,188
citations

471061

17
h-index

414034

32
g-index

80
all docs

80
docs citations

80
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligence by mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 199-220.	1.6	183
2	Stabilizing Function of Skeletal Muscles: an Analytical Investigation. <i>Journal of Theoretical Biology</i> , 1999, 199, 163-179.	0.8	128
3	Trunk muscle activation patterns during walking at different speeds. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 245-252.	0.7	125
4	Stabilizing function of antagonistic neuromusculoskeletal systems: an analytical investigation. <i>Biological Cybernetics</i> , 2003, 89, 71-79.	0.6	52
5	The Contribution of Upper Body Movements to Dynamic Balance Regulation during Challenged Locomotion. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 8.	1.0	47
6	Musculoskeletal support of lumbar spine stability. <i>Pathophysiology</i> , 2005, 12, 257-265.	1.0	46
7	Trunk muscle co-ordination during gait: Relationship between muscle function and acute low back pain. <i>Pathophysiology</i> , 2005, 12, 243-247.	1.0	36
8	A computational model unifies apparently contradictory findings concerning phantom pain. <i>Scientific Reports</i> , 2014, 4, 5298.	1.6	31
9	Biomechanical muscle properties and angiotensin-converting enzyme gene polymorphism: a model-based study. <i>European Journal of Applied Physiology</i> , 2006, 98, 507-515.	1.2	28
10	ISOFIT: a model-based method to measure muscleâ€™tendon properties simultaneously. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005, 4, 10-19.	1.4	25
11	Evolutionary aspects and muscular properties of the trunkâ€™Implications for human low back pain. <i>Pathophysiology</i> , 2005, 12, 233-242.	1.0	23
12	Limb dynamics in agility jumps of beginner and advanced dogs. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	23
13	Healthy humans use sex-specific co-ordination patterns of trunk muscles during gait. <i>European Journal of Applied Physiology</i> , 2009, 105, 585-594.	1.2	22
14	Influence of delayed muscle reflexes on spinal stability. <i>Human Movement Science</i> , 2013, 32, 954-970.	0.6	22
15	An improved method to determine neuromuscular properties using force laws â€™ From single muscle to applications in human movements. <i>Human Movement Science</i> , 2007, 26, 320-341.	0.6	21
16	Spinal lordosis optimizes the requirements for a stable erect posture. <i>Theoretical Biology and Medical Modelling</i> , 2012, 9, 13.	2.1	21
17	The relation between Hill's equation and individual muscle properties. <i>Journal of Theoretical Biology</i> , 2004, 231, 319-332.	0.8	19
18	Stability analysis of the elbow with a load. <i>Journal of Theoretical Biology</i> , 2004, 228, 115-125.	0.8	19

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19	A body-part-specific impairment in the visual recognition of actions in chronic pain patients. <i>Pain</i> , 2012, 153, 1459-1466.	2.0	16
20	NOT ALL OSCILLATIONS ARE RUBBISH: FORWARD SIMULATION OF QUICK-RELEASE EXPERIMENTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2003, 03, 107-122.	0.3	15
21	Different cadences and resistances in sub-maximal synchronous handcycling in able-bodied men: Effects on efficiency and force application. <i>PLoS ONE</i> , 2017, 12, e0183502.	1.1	14
22	Gaze behavior of trampoline gymnasts during a back tuck somersault. <i>Human Movement Science</i> , 2020, 70, 102589.	0.6	14
23	Dynamics of quiet human stance: computer simulations of a triple inverted pendulum model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 819-834.	0.9	13
24	Phase-dependent reflex modulation in tibialis anterior during passive viewing of walking. <i>Acta Psychologica</i> , 2013, 142, 343-348.	0.7	12
25	Laughing: A Demanding Exercise for Trunk Muscles. <i>Journal of Motor Behavior</i> , 2014, 46, 33-37.	0.5	12
26	Biomechanical and physiological differences between synchronous and asynchronous low-intensity handcycling during practice-based learning in able-bodied men. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 29.	2.4	12
27	Women with Anorexia Nervosa do not show altered tactile localization compared to healthy controls. <i>Psychiatry Research</i> , 2018, 267, 446-454.	1.7	11
28	Impaired visual perception of hurtful actions in patients with chronic low back pain. <i>Human Movement Science</i> , 2013, 32, 938-953.	0.6	10
29	Lyapunov function and the basin of attraction for a single-joint muscle-skeletal model. <i>Journal of Mathematical Biology</i> , 2007, 54, 453-464.	0.8	9
30	Increased Throwing Accuracy Improves Children's Catching Performance in a Ball-Catching Task from the Movement Assessment Battery (MABC-2). <i>Frontiers in Psychology</i> , 2016, 7, 1122.	1.1	9
31	Inconsistent descriptions of lumbar multifidus morphology: A scoping review. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 312.	0.8	9
32	Single limb dynamics of jumping turns in dogs. <i>Research in Veterinary Science</i> , 2021, 140, 69-78.	0.9	9
33	MUSCULOSKELETAL STABILIZATION OF THE ELBOW " COMPLEX OR REAL. <i>Journal of Mechanics in Medicine and Biology</i> , 2007, 07, 275-296.	0.3	8
34	Using ultrasound to assess the thickness of the transversus abdominis in a sling exercise. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 203.	0.8	8
35	The biomechanical construction of the horse's body and activity patterns of three important muscles of the trunk in the walk, trot and canter. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018, 102, e818-e827.	1.0	8
36	Impairments in the Visual Processing of Global Biological Motion Cues in Down Syndrome. <i>Perception</i> , 2017, 46, 1283-1297.	0.5	7

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37	Observing a Movement Correction during Walking Affects Evoked Responses but Not Unperturbed Walking. PLoS ONE, 2014, 9, e104981.	1.1	7
38	Gaze, head and eye movements during somersaults with full twists. Human Movement Science, 2021, 75, 102740.	0.6	6
39	Lumbar spine intersegmental motion analysis during lifting. Pathophysiology, 2005, 12, 295-302.	1.0	5
40	Predicting isometric force from muscular activation using a physiologically inspired model. Biomechanics and Modeling in Mechanobiology, 2011, 10, 955-961.	1.4	5
41	Phasic bursting pattern of postural responses may reflect internal dynamics: Simulation of trunk reflexes with a neural oscillator model. Journal of Biomechanics, 2012, 45, 2645-2650.	0.9	5
42	Neural oscillators triggered by loading and hip orientation can generate activation patterns at the ankle during walking in humans. Medical and Biological Engineering and Computing, 2012, 50, 917-923.	1.6	5
43	Model for a flexible motor memory based on a self-active recurrent neural network. Human Movement Science, 2013, 32, 880-898.	0.6	5
44	Acute aerobic exercise enhances pleasant compared to unpleasant visual scene processing. Brain and Cognition, 2020, 143, 105595.	0.8	5
45	Analyzing the kinematics of hand movements in catching tasks – An online correction analysis of movement toward the target’s trajectory. Behavior Research Methods, 2018, 50, 2316-2324.	2.3	4
46	Comparison of six different marker sets to analyze knee kinematics and kinetics during landings. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	4
47	Monosynaptic Stretch Reflex Fails to Explain the Initial Postural Response to Sudden Lateral Perturbations. Frontiers in Human Neuroscience, 2017, 11, 296.	1.0	3
48	Neck muscle responses of driver and front seat passenger during frontal-oblique collisions. PLoS ONE, 2018, 13, e0209753.	1.1	3
49	Delayed Latency of Postural Muscles of Individuals with Intellectual Disabilities. Frontiers in Psychology, 2018, 9, 109.	1.1	3
50	Perception of Biological Motion Speed in Individuals with Down Syndrome. Journal of Down Syndrome & Chromosome Abnormalities, 2017, 03, .	0.1	2
51	Self-stability in Biological Systems – Studies based on Biomechanical Models. , 2006, , 403-410.		2
52	Using Motor Imagery to Access Alternative Attentional Strategies When Navigating Environmental Boundaries to Prevent Freezing of Gait – A Perspective. Frontiers in Human Neuroscience, 2022, 16, 750612.	1.0	2
53	Application of neural oscillators to study the effects of walking speed on rhythmic activations at the ankle. Theoretical Biology and Medical Modelling, 2013, 10, 9.	2.1	1
54	Effect of Repeated External Perturbations on the Reflex Control of Human Posture – Influence of Reflex Delay, Duration and Gain. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 221-232.	1.3	1

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55	Effects of two different foot orthoses on muscle activity in female during single-leg landing. German Journal of Exercise and Sport Research, 2017, 47, 305-314.	1.0	1
56	Robust Behaviour of the Human Leg. , 2006, , 5-16.		1
57	Stability Optimization of Juggling. , 2008, , 419-432.		1
58	Steering Does Affect Biophysical Responses in Asynchronous, but Not Synchronous Submaximal Handcycle Ergometry in Able-Bodied Men. Frontiers in Sports and Active Living, 2021, 3, 741258.	0.9	1
59	Impairment of Motion Perception in Chronic Low Back Pain Patients. Spine Journal, 2011, 11, S92.	0.6	0
60	LONG-TERM EFFECTS OF SPECIAL FOOTORTHOSES (FO) FOR PATIENTS WITH LOW BACK PAIN (LBP). Journal of Biomechanics, 2012, 45, S522.	0.9	0
61	Tackling the challenges posed by the human dynamic system. Human Movement Science, 2013, 32, 877-879.	0.6	0
62	Motor Control and Spinal Pattern Generators in Humans. Cognitive Systems Monographs, 2013, , 249-259.	0.1	0
63	The evaluation of upright posture caused by simple movement test. Journal of Back and Musculoskeletal Rehabilitation, 2016, 29, 15-21.	0.4	0
64	On the Determination of the Basin of Attraction for Stationary and Periodic Movements. Lecture Notes in Control and Information Sciences, 2006, , 147-166.	0.6	0
65	A system of inverted nonsmooth pendula: modelling an elderly person stepping over an obstacle. Nonlinear Analysis and Differential Equations, 2019, 7, 17-32.	0.1	0
66	Angular velocity around the longitudinal axis in combination with head movements of springboard divers during twisted somersaults. Sports Biomechanics, 2022, , 1-18.	0.8	0
67	Planning Catching Movements: Advantages of Expertise, Visibility and Self-Throwing. Journal of Motor Behavior, 2022, , 1-10.	0.5	0