

Ann Hallemans

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,903
citations

346980

22
h-index

340414

39
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99
all docs

99
docs citations

99
times ranked

2156
citing authors

#	ARTICLE	IF	CITATIONS
1	Do spatiotemporal parameters and gait variability differ across the lifespan of healthy adults? A systematic review. <i>Gait and Posture</i> , 2018, 64, 181-190.	0.6	157
2	Low vision affects dynamic stability of gait. <i>Gait and Posture</i> , 2010, 32, 547-551.	0.6	156
3	3D joint dynamics of walking in toddlers. <i>Gait and Posture</i> , 2005, 22, 107-118.	0.6	101
4	Changes in 3D joint dynamics during the first 5 months after the onset of independent walking: A longitudinal follow-up study. <i>Gait and Posture</i> , 2006, 24, 270-279.	0.6	77
5	Postural sway in children: A literature review. <i>Gait and Posture</i> , 2016, 49, 402-410.	0.6	75
6	Changes in foot-function parameters during the first 5 months after the onset of independent walking: a longitudinal follow-up study. <i>Gait and Posture</i> , 2006, 23, 142-148.	0.6	70
7	Visual deprivation leads to gait adaptations that are age- and context-specific: II. Kinematic parameters. <i>Gait and Posture</i> , 2009, 30, 307-311.	0.6	70
8	Trunk biomechanics during hemiplegic gait after stroke: A systematic review. <i>Gait and Posture</i> , 2017, 54, 133-143.	0.6	70
9	Development of independent locomotion in children with a severe visual impairment. <i>Research in Developmental Disabilities</i> , 2011, 32, 2069-2074.	1.2	68
10	Pressure Distribution Patterns under the Feet of New Walkers: The First Two Months of Independent Walking. <i>Foot and Ankle International</i> , 2003, 24, 444-453.	1.1	61
11	Vestibular (dys)function in children with sensorineural hearing loss: a systematic review. <i>International Journal of Audiology</i> , 2017, 56, 361-381.	0.9	56
12	Psychometric properties of functional balance tests in children: a literature review. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 521-529.	1.1	49
13	Visual deprivation leads to gait adaptations that are age- and context-specific: I. Step-time parameters. <i>Gait and Posture</i> , 2009, 30, 55-59.	0.6	48
14	Mechanical energy in toddler gait A trade-off between economy and stability?. <i>Journal of Experimental Biology</i> , 2004, 207, 2417-2431.	0.8	46
15	Physics-Based Simulations to Predict the Differential Effects of Motor Control and Musculoskeletal Deficits on Gait Dysfunction in Cerebral Palsy: A Retrospective Case Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 40.	1.0	46
16	SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children With Cerebral Palsy. <i>Frontiers in Neurobotics</i> , 2019, 13, 54.	1.6	40
17	Does multi-modal cervical physical therapy improve tinnitus in patients with cervicogenic somatic tinnitus?. <i>Manual Therapy</i> , 2016, 26, 125-131.	1.6	34
18	Lower limb muscle synergies during walking after stroke: a systematic review. <i>Disability and Rehabilitation</i> , 2020, 42, 2836-2845.	0.9	31

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19	Prospective cohort study on the predictors of fall risk in 119 patients with bilateral vestibulopathy. PLoS ONE, 2020, 15, e0228768.	1.1	30
20	Increased mechanical cost of walking in children with diplegia: The role of the passenger unit cannot be neglected. Research in Developmental Disabilities, 2012, 33, 1996-2003.	1.2	29
21	Age-related changes in mechanical and metabolic energy during typical gait. Gait and Posture, 2010, 31, 495-501.	0.6	27
22	An investigation of the spatio-temporal parameters of gait and margins of stability throughout adulthood. Journal of the Royal Society Interface, 2020, 17, 20200194.	1.5	27
23	Age-related changes in postural sway in preschoolers. Gait and Posture, 2016, 44, 116-122.	0.6	24
24	Developmental changes in spatial margin of stability in typically developing children relate to the mechanics of gait. Gait and Posture, 2018, 63, 33-38.	0.6	22
25	Effects of visual deprivation on intra-limb coordination during walking in children and adults. Experimental Brain Research, 2009, 198, 95-106.	0.7	20
26	Gait deviations in patients with dravet syndrome: A systematic review. European Journal of Paediatric Neurology, 2019, 23, 357-367.	0.7	20
27	Motor development in children with Dravet syndrome. Developmental Medicine and Child Neurology, 2019, 61, 950-956.	1.1	20
28	Prognostic indicators for decrease in tinnitus severity after cervical physical therapy in patients with cervicogenic somatic tinnitus. Musculoskeletal Science and Practice, 2017, 29, 33-37.	0.6	18
29	Growth of segment parameters and a morphological classification for children between 15 and 36 months. Journal of Anatomy, 2009, 214, 79-90.	0.9	17
30	Age-related differences in muscle activity patterns during walking in healthy individuals. Journal of Electromyography and Kinesiology, 2018, 41, 124-131.	0.7	17
31	Gait abnormalities in people with Dravet syndrome: A cross-sectional multi-center study. European Journal of Paediatric Neurology, 2019, 23, 808-818.	0.7	16
32	Mechanical energy estimation during walking: Validity and sensitivity in typical gait and in children with cerebral palsy. Gait and Posture, 2012, 35, 231-237.	0.6	14
33	Effectiveness of additional trunk exercises on gait performance: study protocol for a randomized controlled trial. Trials, 2017, 18, 249.	0.7	14
34	Cervical sensorimotor control in idiopathic cervical dystonia: A cross-sectional study. Brain and Behavior, 2017, 7, e00735.	1.0	14
35	Playing Music May Improve the Gait Pattern in Patients with Bilateral Caloric Areflexia Wearing a Cochlear Implant: Results from a Pilot Study. Frontiers in Neurology, 2017, 8, 404.	1.1	14
36	Posture normalisation of 3D body scans. Ergonomics, 2019, 62, 834-848.	1.1	14

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37	A Systematic Review on Balance Performance in Patients With Bilateral Vestibulopathy. <i>Physical Therapy</i> , 2020, 100, 1582-1594.	1.1	14
38	A cross-sectional study about the relationship between morphology and step-time parameters in children between 15 and 36 months. <i>Gait and Posture</i> , 2010, 32, 400-404.	0.6	13
39	Decline in gait propulsion in older adults over age decades. <i>Gait and Posture</i> , 2021, 90, 475-482.	0.6	13
40	A cross-sectional study about the relationship between morphology and kinematic parameters in children between 15 and 36 months. <i>Gait and Posture</i> , 2011, 34, 159-163.	0.6	12
41	Clinical usefulness and challenges of instrumented motion analysis in patients with intellectual disabilities. <i>Gait and Posture</i> , 2019, 71, 105-115.	0.6	12
42	The Timed Up and Go Test in Children: Does Protocol Choice Matter? A Systematic Review. <i>Pediatric Physical Therapy</i> , 2019, 31, 22-31.	0.3	12
43	Independent walking and cognitive development in preschool children with Dravet syndrome. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 472-479.	1.1	12
44	Measurement of cervical sensorimotor control: The reliability of a continuous linear movement test. <i>Manual Therapy</i> , 2014, 19, 399-404.	1.6	11
45	Postural control and the relation with cervical sensorimotor control in patients with idiopathic adult-onset cervical dystonia. <i>Experimental Brain Research</i> , 2018, 236, 803-811.	0.7	11
46	Age-related changes in arm motion during typical gait. <i>Gait and Posture</i> , 2018, 66, 51-57.	0.6	11
47	Trunk biomechanics during walking after sub-acute stroke and its relation to lower limb impairments. <i>Clinical Biomechanics</i> , 2020, 75, 105013.	0.5	11
48	Dynamic Visual Acuity test while walking or running on treadmill: Reliability and normative data. <i>Gait and Posture</i> , 2018, 65, 137-142.	0.6	10
49	SWEAT2 Study: Effectiveness of Trunk Training on Gait and Trunk Kinematics After Stroke: A Randomized Controlled Trial. <i>Physical Therapy</i> , 2020, 100, 1568-1581.	1.1	10
50	An exploratory investigation on spatiotemporal parameters, margins of stability, and their interaction in bilateral vestibulopathy. <i>Scientific Reports</i> , 2021, 11, 6427.	1.6	10
51	Aging and the Relationship between Balance Performance, Vestibular Function and Somatosensory Thresholds. <i>Journal of International Advanced Otology</i> , 2020, 16, 328-337.	1.0	10
52	Bilateral vestibulopathy and age: experimental considerations for testing dynamic visual acuity on a treadmill. <i>Journal of Neurology</i> , 2020, 267, 265-272.	1.8	9
53	Deconstructing Dravet syndrome neurocognitive development: A scoping review. <i>Epilepsia</i> , 2021, 62, 874-887.	2.6	9
54	Standing balance in preschoolers using nonlinear dynamics and sway density curve analysis. <i>Journal of Biomechanics</i> , 2019, 82, 96-102.	0.9	7

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55	The mechanics behind gait problems in patients with Dravet Syndrome. <i>Gait and Posture</i> , 2021, 84, 321-328.	0.6	7
56	The Relationship Between the Activities-Specific Balance Confidence Scale and Balance Performance, Self-perceived Handicap, and Fall Status in Patients With Peripheral Dizziness or Imbalance. <i>Otology and Neurotology</i> , 2021, 42, 1058-1066.	0.7	7
57	The effect of one dry needling session on pain, central pain processing, muscle co-contraction and gait characteristics in patients with knee osteoarthritis: a randomized controlled trial. <i>Scandinavian Journal of Pain</i> , 2022, 22, 396-409.	0.5	7
58	A Modified Version of the Timed Up and Go Test for Children Who Are Preschoolers. <i>Pediatric Physical Therapy</i> , 2016, 28, 409-415.	0.3	6
59	Age-related differences in interlimb coordination during typical gait: An observational study. <i>Gait and Posture</i> , 2020, 81, 109-115.	0.6	6
60	Motor functions. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2020, 173, 157-170.	1.0	5
61	Reliability and concurrent validity of a modified timed up and go test for healthy preschoolers. <i>European Journal of Pediatrics</i> , 2020, 179, 1579-1586.	1.3	5
62	Exploring the Biomedical Paradigm in the Work of Jan Fabre. <i>Performance Research</i> , 2014, 19, 45-53.	0.2	4
63	Is perception of visual verticality intact in patients with idiopathic cervical dystonia?. <i>Acta Neurologica Belgica</i> , 2018, 118, 77-84.	0.5	4
64	Paving the Way Toward Distinguishing Fallers From Non-fallers in Bilateral Vestibulopathy: A Wide Pilot Observation. <i>Frontiers in Neurology</i> , 2021, 12, 611648.	1.1	4
65	The impact of COVID-19 lockdown on the general health status of people with chronic health conditions in Belgium: a cross-sectional survey study. <i>Physiotherapy Theory and Practice</i> , 2022, , 1-16.	0.6	4
66	Changes in Mechanical Control of Movement During the First 5 Months of Independent Walking: A Longitudinal Study. <i>Journal of Motor Behavior</i> , 2007, 39, 227-238.	0.5	3
67	Do Performersâ€™ Experience and Sex Affect Their Performance?. <i>Motor Control</i> , 2017, 21, 227-245.	0.3	3
68	Physiological performing exercises by Jan Fabre: an additional training method for contemporary performers. <i>Theatre, Dance and Performance Training</i> , 2015, 6, 273-290.	0.1	2
69	Gait and its components in typically developing preschoolers. <i>Gait and Posture</i> , 2017, 58, 300-306.	0.6	2
70	Feasibility of the clinical dynamic visual acuity test in typically developing preschoolers. <i>European Archives of Oto-Rhino-Laryngology</i> , 2018, 275, 1343-1348.	0.8	2
71	The effect of a single botulinum toxin treatment on somatosensory processing in idiopathic isolated cervical dystonia: an observational study. <i>Journal of Neurology</i> , 2018, 265, 2672-2683.	1.8	2
72	P 055 - Gait Profile Scores indicate that gait deviations in children and young adults with Dravet Syndrome mainly manifest in transverse plane. <i>Gait and Posture</i> , 2018, 65, 323-324.	0.6	2

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73	Foot-floor contact pattern in children and adults with Dravet Syndrome. <i>Gait and Posture</i> , 2021, 84, 315-320.	0.6	2
74	Are excessive cocontractions during walking in children with cerebral palsy caused by spasticity?. <i>Gait and Posture</i> , 2009, 30, S16-S17.	0.6	1
75	Motor development in visually impaired children. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 114-114.	1.1	1
76	Associations between trunk and gait performance after stroke. <i>Gait and Posture</i> , 2017, 57, 179-180.	0.6	1
77	Unravelling Motor Learning Processes in Theater Performers. <i>Motor Control</i> , 2018, 22, 134-148.	0.3	1
78	Paediatric reference data are needed to calculate Gait Profile Scores in children, regardless of age categories. <i>Gait and Posture</i> , 2018, 65, 191-193.	0.6	1
79	Strength measurements in patients with Dravet Syndrome. <i>European Journal of Paediatric Neurology</i> , 2021, 35, 100-110.	0.7	1
80	P048 Development of locomotion in the blind: step-time parameters (STP). <i>Gait and Posture</i> , 2008, 28, S78.	0.6	0
81	Independent domains of gait in adults: a comparison of different populations. <i>Gait and Posture</i> , 2017, 57, 219.	0.6	0
82	Relations between age, step-time parameters and margin of stability during gait in typically developing children. <i>Gait and Posture</i> , 2017, 57, 162-163.	0.6	0
83	RESPONSE TO WEAVER TS, SHAYMAN CS, HULLER TE. THE EFFECT OF HEARING AIDS AND COCHLEAR IMPLANTS ON BALANCE DURING GAIT. <i>OTOL NEUROTOL</i> 2017;38:1327-1332. <i>Otology and Neurotology</i> , 2018, 39, 518-519.	0.7	0
84	Why Is Grandma Walking Strangely?. <i>Frontiers for Young Minds</i> , 0, 9, .	0.8	0
85	SWEAT2 study: effectiveness of trunk training on muscle activity after stroke. A randomized controlled trial. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 485-494.	1.1	0
86	Trunk Kinematics During Walking After Sub-acute Stroke. <i>Biosystems and Biorobotics</i> , 2019, , 774-778.	0.2	0
87	Aging and the Relationship between Balance Performance, Vestibular Function and Somatosensory Thresholds. <i>Journal of International Advanced Otology</i> , 2020, 16, 328-337.	1.0	0
88	The influence of a thoracolumbosacral orthosis on gait performance in healthy adults during walking. <i>Acta of Bioengineering and Biomechanics</i> , 2018, 20, 15-21.	0.2	0