

Mark D Grabiner

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,176
citations

147801
31
h-index

175258
52
g-index

53
all docs

53
docs citations

53
times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of step kinematics in young and older adults. <i>Gait and Posture</i> , 2004, 20, 26-29.	1.4	218
2	Effect of an Ankle Orthosis and Ankle Ligament Anesthesia on Ankle Joint Proprioception. <i>American Journal of Sports Medicine</i> , 1994, 22, 223-229.	4.2	213
3	Step width variability, but not step length variability or step time variability, discriminates gait of healthy young and older adults during treadmill locomotion. <i>Journal of Biomechanics</i> , 2004, 37, 935-938.	2.1	208
4	Mechanisms of failed recovery following postural perturbations on a motorized treadmill mimic those associated with an actual forward trip. <i>Clinical Biomechanics</i> , 2001, 16, 813-819.	1.2	174
5	Age-related changes in spatial and temporal gait variables. <i>Archives of Physical Medicine and Rehabilitation</i> , 2001, 82, 31-35.	0.9	172
6	Measuring step kinematic variability on an instrumented treadmill: how many steps are enough?. <i>Journal of Biomechanics</i> , 2003, 36, 1215-1218.	2.1	149
7	Measures of frontal plane stability during treadmill and overground walking. <i>Gait and Posture</i> , 2010, 31, 380-384.	1.4	136
8	Foot displacement but not velocity predicts the outcome of a slip induced in young subjects while walking. <i>Journal of Biomechanics</i> , 2000, 33, 803-808.	2.1	121
9	Trunk kinematics and fall risk of older adults: Translating biomechanical results to the clinic. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 197-204.	1.7	120
10	In vivo tracking of the human patella. <i>Journal of Biomechanics</i> , 1992, 25, 637-643.	2.1	114
11	Body segment inertial parameter estimation for the general population of older adults. <i>Journal of Biomechanics</i> , 2002, 35, 707-712.	2.1	105
12	Measures of Postural Stability Are Not Predictors of Recovery from Large Postural Disturbances in Healthy Older Adults. <i>Journal of the American Geriatrics Society</i> , 2000, 48, 42-50.	2.6	99
13	Task-Specific Training Reduces Trip-Related Fall Risk in Women. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 2410-2414.	0.4	98
14	Variation in trunk kinematics influences variation in step width during treadmill walking by older and younger adults. <i>Gait and Posture</i> , 2010, 31, 461-464.	1.4	95
15	Influence of Lower Extremity Strength of Healthy Older Adults on the Outcome of an Induced Trip. <i>Journal of the American Geriatrics Society</i> , 2002, 50, 256-262.	2.6	92
16	Cross talk in surface electromyograms of human hamstring muscles. <i>Journal of Orthopaedic Research</i> , 1992, 10, 701-709.	2.3	77
17	Exercise-Based Fall Prevention. <i>Exercise and Sport Sciences Reviews</i> , 2014, 42, 161-168.	3.0	75
18	Attention demanding tasks during treadmill walking reduce step width variability in young adults. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2005, 2, 25.	4.6	72

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19	An apparent contradiction: increasing variability to achieve greater precision?. <i>Experimental Brain Research</i> , 2014, 232, 403-413.	1.5	54
20	Task-specific Fall Prevention Training Is Effective for Warfighters With Transtibial Amputations. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3076-3084.	1.5	53
21	The effects of age on stabilization of the mediolateral trajectory of the swing foot. <i>Gait and Posture</i> , 2013, 38, 923-928.	1.4	51
22	Effects of an attention demanding task on dynamic stability during treadmill walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2008, 5, 12.	4.6	50
23	The discriminant capabilities of stability measures, trunk kinematics, and step kinematics in classifying successful and failed compensatory stepping responses by young adults. <i>Journal of Biomechanics</i> , 2012, 45, 129-133.	2.1	47
24	Lower Extremity Strength Plays Only a Small Role in Determining the Maximum Recoverable Lean Angle in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2005, 60, 1447-1450.	3.6	46
25	Recovery responses to surrogate slipping tasks differ from responses to actual slips. <i>Gait and Posture</i> , 2006, 24, 441-447.	1.4	43
26	Frontal plane margin of stability is increased during texting while walking. <i>Gait and Posture</i> , 2014, 40, 243-246.	1.4	42
27	Does Lower Extremity Osteoarthritis Exacerbate Risk Factors for Falls in Older Adults?. <i>Women's Health</i> , 2012, 8, 685-698.	1.5	41
28	Modifiable performance domain risk-factors associated with slip-related falls. <i>Gait and Posture</i> , 2008, 28, 461-465.	1.4	37
29	Measures of paraspinal muscle performance do not predict initial trunk kinematics after tripping. <i>Journal of Biomechanics</i> , 1996, 29, 735-744.	2.1	35
30	The presence of an obstacle influences the stepping response during induced trips and surrogate tasks. <i>Experimental Brain Research</i> , 2005, 161, 343-350.	1.5	35
31	Characteristics and adaptive strategies linked with falls in stroke survivors from analysis of laboratory-induced falls. <i>Journal of Biomechanics</i> , 2016, 49, 3313-3319.	2.1	35
32	Age-related differences in the maintenance of frontal plane dynamic stability while stepping to targets. <i>Journal of Biomechanics</i> , 2015, 48, 592-597.	2.1	33
33	Expectation of an upcoming large postural perturbation influences the recovery stepping response and outcome. <i>Gait and Posture</i> , 2015, 41, 335-337.	1.4	32
34	Trip recoveries of people with unilateral, transfemoral or knee disarticulation amputations: Initial findings. <i>Gait and Posture</i> , 2013, 38, 534-536.	1.4	26
35	Three-Dimensional in Vivo Kinematics of the Shoulder during Humeral Elevation. <i>Journal of Applied Biomechanics</i> , 1998, 14, 312-326.	0.8	24
36	Obesity as a Factor Contributing to Falls by Older Adults. <i>Current Obesity Reports</i> , 2014, 3, 348-354.	8.4	24

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37	Sensitivity of Dynamic Stability to Changes in Step Width During Treadmill Walking by Young Adults. <i>Journal of Applied Biomechanics</i> , 2012, 28, 616-621.	0.8	22
38	A single session of trip-specific training modifies trunk control following treadmill induced balance perturbations in stroke survivors. <i>Gait and Posture</i> , 2019, 70, 222-228.	1.4	22
39	The influence of age on the thresholds of compensatory stepping and dynamic stability maintenance. <i>Gait and Posture</i> , 2014, 40, 363-368.	1.4	19
40	Knee osteoarthritis negatively affects the recovery step following large forward-directed postural perturbations. <i>Journal of Biomechanics</i> , 2016, 49, 1128-1133.	2.1	11
41	Performance of an attention-demanding task during treadmill walking shifts the noise qualities of step-to-step variation in step width. <i>Gait and Posture</i> , 2018, 63, 154-158.	1.4	9
42	Trip-specific training enhances recovery after large postural disturbances for which there is NO expectation. <i>Gait and Posture</i> , 2018, 61, 382-386.	1.4	8
43	Increased reflex activation of the peroneus longus following application of an ankle brace declines over time. <i>Journal of Orthopaedic Research</i> , 2002, 20, 1323-1326.	2.3	7
44	Developing and Establishing Biomechanical Variables as Risk Biomarkers for Preventable Gait-Related Falls and Assessment of Intervention Effectiveness. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 722363.	1.8	5
45	Bilateral early activity in the hip flexors associated with falls in stroke survivors: Preliminary evidence from laboratory-induced falls. <i>Clinical Neurophysiology</i> , 2018, 129, 258-264.	1.5	5
46	Can Fall-Related Hip Fractures Be Prevented by Characterizing the Biomechanical Mechanisms of Failed Recovery?. <i>Endocrine</i> , 2002, 17, 15-20.	2.2	4
47	Ensuring accurate estimates of step width variability during treadmill walking requires more than 400 consecutive steps. <i>Journal of Biomechanics</i> , 2019, 91, 160-163.	2.1	4
48	Assessments of trunk postural control within a fall-prevention training program for service members with lower limb trauma and loss. <i>Gait and Posture</i> , 2022, 92, 493-497.	1.4	4
49	Revisiting the Work-Relatedness of Carpal Tunnel Syndrome. <i>Exercise and Sport Sciences Reviews</i> , 2003, 31, 123-126.	3.0	3
50	Treadmill-belt width, but not feedback from the lower visual field, influences the noise characteristics of step width time series. <i>Journal of Biomechanics</i> , 2020, 109, 109943.	2.1	3
51	Letters to the Editor-in-Chief. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 1185.	0.4	2
52	The Problem Is Falls: The Answer Is Kinesiology. <i>Kinesiology Review</i> , 2012, 1, 32-36.	0.6	2
53	Exercise-based fall prevention programmes decrease fall-related injuries. <i>Evidence-based Nursing</i> , 2014, 17, 125-125.	0.2	0