Judith M Burnfield

List of Publications by Year
in descending order

70	1,709	304743	289244
papers	citations	22 h-index	40 g-index

71	71	71	1477
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The influence of walking speed and footwear on plantar pressures in older adults. Clinical Biomechanics, 2004, 19, 78-84.	1.2	255
2	Nonsurgical Management of Posterior Tibial Tendon Dysfunction With Orthoses and Resistive Exercise: A Randomized Controlled Trial. Physical Therapy, 2009, 89, 26-37.	2.4	112
3	The Effects of Peroneal Nerve Functional Electrical Stimulation Versus Ankle-Foot Orthosis in Patients With Chronic Stroke. Neurorehabilitation and Neural Repair, 2014, 28, 688-697.	2.9	92
4	Prediction of slips: an evaluation of utilized coefficient of friction and available slip resistance. Ergonomics, 2006, 49, 982-995.	2.1	85
5	Similarity of Joint Kinematics and Muscle Demands Between Elliptical Training and Walking: Implications for Practice. Physical Therapy, 2010, 90, 289-305.	2.4	74
6	The influence of lower extremity joint torque on gait characteristics in elderly men. Archives of Physical Medicine and Rehabilitation, 2000, 81, 1153-1157.	0.9	66
7	Long-Term Follow-up to a Randomized Controlled Trial Comparing Peroneal Nerve Functional Electrical Stimulation to an Ankle Foot Orthosis for Patients With Chronic Stroke. Neurorehabilitation and Neural Repair, 2015, 29, 911-922.	2.9	62
8	Impact of stance phase microprocessor-controlled knee prosthesis on ramp negotiation and community walking function in K2 level transfemoral amputees. Prosthetics and Orthotics International, 2012, 36, 95-104.	1.0	59
9	Energy expenditure and gait characteristics of a bilateral amputee walking with C-leg prostheses compared with stubby and conventional articulating prostheses. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1711-1717.	0.9	58
10	Toe walking: Muscular demands at the ankle and knee. Archives of Physical Medicine and Rehabilitation, 2003, 84, 7-16.	0.9	57
11	The supine hip extensor manual muscle test: A reliability and validity study11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the authors(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1345-1350.	0.9	57
12	Tendinopathy Discrimination by Use of Spatial Frequency Parameters in Ultrasound B-Mode Images. IEEE Transactions on Medical Imaging, 2008, 27, 608-615.	8.9	55
13	Selective Activation of Tibialis Posterior: Evaluation by Magnetic Resonance Imaging. Medicine and Science in Sports and Exercise, 2004, 36, 862-867.	0.4	48
14	Impact of a stance phase microprocessor-controlled knee prosthesis on level walking in lower functioning individuals with a transfemoral amputation. Prosthetics and Orthotics International, 2014, 38, 447-455.	1.0	45
15	Kinematic and electromyographic analyses of normal and device-assisted sit-to-stand transfers. Gait and Posture, 2012, 36, 516-522.	1.4	43
16	Effect of Foot Orthoses on Tibialis Posterior Activation in Persons with Pes Planus. Medicine and Science in Sports and Exercise, 2005, 37, 24-29.	0.4	42
17	Comparison of utilized coefficient of friction during different walking tasks in persons with and without a disability. Gait and Posture, 2005, 22, 82-88.	1.4	35
18	Comparative Kinematic and Electromyographic Assessment of Clinician- and Device-Assisted Sit-to-Stand Transfers in Patients With Stroke. Physical Therapy, 2013, 93, 1331-1341.	2.4	32

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19	The neuromuscular demands of toe walking: A forward dynamics simulation analysis. Journal of Biomechanics, 2007, 40, 1293-1300.	2.1	29
20	Patients' experiences with technology during inpatient rehabilitation: opportunities to support independence and therapeutic engagement. Disability and Rehabilitation: Assistive Technology, 2014, 9, 121-127.	2.2	29
21	Utilized Coefficient of Friction During Walking: Static Estimates Exceed Measured Values. Journal of Forensic Sciences, 2002, 47, 1303-1308.	1.6	28
22	The Role of Center of Mass Kinematics in Predicting Peak Utilized Coefficient of Friction During Walking*. Journal of Forensic Sciences, 2007, 52, 1328-1333.	1.6	26
23	Impact of Elliptical Trainer Ergonomic Modifications on Perceptions of Safety, Comfort, Workout, and Usability for People With Physical Disabilities and Chronic Conditions. Physical Therapy, 2011, 91, 1604-1617.	2.4	22
24	Comparative analysis of speed's impact on muscle demands during partial body weight support motor-assisted elliptical training. Gait and Posture, 2014, 39, 314-320.	1.4	21
25	Partial body weight support treadmill training speed influences paretic and non-paretic leg muscle activation, stride characteristics, and ratings of perceived exertion during acute stroke rehabilitation. Human Movement Science, 2016, 47, 16-28.	1.4	21
26	Modified Elliptical Machine Motor-Drive Design for Assistive Gait Rehabilitation. Journal of Medical Devices, Transactions of the ASME, 2011, 5, .	0.7	19
27	Frontal plane comparison between drop jump and vertical jump: implications for the assessment of ACL risk of injury. Sports Biomechanics, 2016, 15, 440-449.	1.6	19
28	Variations in Plantar Pressure Variables across Five Cardiovascular Exercises. Medicine and Science in Sports and Exercise, 2007, 39, 2012-2020.	0.4	18
29	Novel Motor-Assisted Elliptical Training Intervention Improves 6-Minute Walk Test and Oxygen Cost for an Individual With Progressive Supranuclear Palsy. Cardiopulmonary Physical Therapy Journal, 2015, 26, 36-41.	0.3	18
30	Non-operative management of posterior tibialis tendon dysfunction: design of a randomized clinical trial [NCT00279630]. BMC Musculoskeletal Disorders, 2006, 7, 49.	1.9	16
31	Muscle compensatory mechanisms during able-bodied toe walking. Gait and Posture, 2008, 27, 440-446.	1.4	13
32	Kinematic and muscle demand similarities between motor-assisted elliptical training and walking: Implications for pediatric gait rehabilitation. Gait and Posture, 2017, 51, 194-200.	1.4	13
33	Lower Extremity Kinematics During Walking and Elliptical Training in Individuals With and Without Traumatic Brain Injury. Journal of Neurologic Physical Therapy, 2013, 37, 176-186.	1.4	12
34	Computerized dynamic posturography detects balance deficits in individuals with a history of chronic severe traumatic brain injury. Brain Injury, 2016, 30, 1249-1255.	1.2	12
35	Walking and Fitness Improvements in a Child With Diplegic Cerebral Palsy Following Motor-Assisted Elliptical Intervention. Pediatric Physical Therapy, 2018, 30, E1-E7.	0.6	9
36	Cardiorespiratory fitness, balance and walking improvements in an adolescent with cerebral palsy (GMFCS II) and autism after motor-assisted elliptical training. European Journal of Physiotherapy, 2020, 22, 124-132.	1.3	9

#	Article	IF	Citations
37	Individuals with Multiple Sclerosis Improved Walking Endurance And Decreased Fatigue Following Motor-Assisted Elliptical Training Intervention. Archives of Physical Medicine and Rehabilitation, 2016, 97, e34.	0.9	8
38	Weight control practices of Division I National Collegiate Athletic Association athletes. Physician and Sportsmedicine, 2016, 44, 170-176.	2.1	7
39	Impact of ICARE Training Speed and Motor Assistance on Cardiovascular Response. Cardiopulmonary Physical Therapy Journal, 2019, 30, 115-122.	0.3	7
40	Monitoring cerebral hemodynamics with transcranial Doppler ultrasound during cognitive and exercise testing in adults following unilateral stroke. , 2012, 2012, 2310-3.		6
41	Adapted Motor-Assisted Elliptical for Rehabilitation of Children With Physical Disabilities. Journal of Medical Devices, Transactions of the ASME, 2019, 13, .	0.7	6
42	Modification of the ICARE System for Pediatric Therapy. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	5
43	Psychological difficulties and parental well-being in children with musculoskeletal problems in the 2011/2012 National Survey of Childrenâ€™s Health.. Rehabilitation Psychology, 2019, 64, 87-97.	1.3	5
44	Normal and Pathologic Gait. , 2006, , 119-125.		4
45	Work Injuries Among Therapists In Physical Rehabilitation. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1072-1076.	0.3	4
46	Musculoskeletal Risk to Physical Therapists during Overground Gait Training. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1219-1223.	0.3	4
47	Video capture and post-processing technique for approximating 3D projectile trajectory. Sports Technology, 2015, 8, 124-129.	0.4	4
48	Perceived importance of AAC messages to support communication in rehabilitation settings. Disability and Rehabilitation: Assistive Technology, 2020, 16, 1-6.	2.2	4
49	Therapeutic massage to enhance family caregiversâ€™ well-being in a rehabilitation hospital. Complementary Therapies in Clinical Practice, 2019, 35, 361-367.	1.7	3
50	Comparison of plantar pressure profile of young adults during training on elliptical devices and overground walking: A pilot study. Foot, 2020, 45, 101716.	1.1	3
51	Effect of motor-assisted elliptical training speed and body weight support on center of pressure movement variability. Gait and Posture, 2020, 81, 138-143.	1.4	3
52	Speech Recognition for Environmental Control: Effect of Microphone Type, Dysarthria, and Severity on Recognition Results. Assistive Technology, 2015, 27, 199-207.	2.0	2
53	Pedi-ICARE Training Improves Walking and Endurance of Child With Cerebral Palsy. Archives of Physical Medicine and Rehabilitation, 2016, 97, e19-e20.	0.9	2
54	Design and Validation of a Heart Rate and Speed Monitoring Device With Intelligently Controlled Assistive Rehabilitation Elliptical. Journal of Medical Devices, Transactions of the ASME, 2019, 13, .	0.7	2

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55	Variations in plantar pressure variables across elliptical trainers in older adults. Clinical Biomechanics, 2020, 80, 105142.	1.2	2
56	Occupational injuries and patient lift usage among physical rehabilitation therapists. Journal of Back and Musculoskeletal Rehabilitation, 2021, , 1-11.	1.1	2
57	Feasibility of motor-assisted elliptical to improve walking, fitness and balance following pediatric acquired brain injury: A case series. Journal of Pediatric Rehabilitation Medicine, 2021, 14, 539-551.	0.5	2
58	Modular Self-Reconfigurable Robot for Autonomous Rehabilitation Assistance in Daily Living Tasks for Spinal Cord Injury Patients. , 2019, , .		2
59	Improved Elliptical Trainer Biomechanics Using a Modified Cardan Gear. , 2012, , .		1
60	Investigation of Center of Pressure during Gait and Motor-Assisted Elliptical Training in Adults. Archives of Physical Medicine and Rehabilitation, 2018, 99, e206.	0.9	1
61	Investigation of toppling ball flight in American football with a mechanical field-goal kicker. Sports Engineering, 2018, 21, 95-102.	1.1	1
62	Should Gait Outcomes be the Primary Focus in Pediatric Gait Rehabilitation?. Journal of Novel Physiotherapies, 2017, 7, .	0.1	1
63	Muscle demand and kinematic similarities between pediatric-modified motor-assisted elliptical training at fast speed and fast overground walking: Real-world implications for pediatric gait rehabilitation. Journal of Electromyography and Kinesiology, 2022, 63, 102639.	1.7	1
64	Effect of gap-filling technique and gap location on linear and nonlinear calculations of motion during locomotor activities. Gait and Posture, 2022, 94, 85-92.	1.4	1
65	Tendinopathy discrimination using spatial frequency parameters and Artificial Neural Networks. , 2009, , .		0
66	Mobility-Enhancing Fall-Prevention Device for Physical Rehabilitation1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
67	Test-retest reliability and minimal detectable change of the computerized dynamic posturography PROPRIO for adults with chronic traumatic brain injury. Disability and Rehabilitation, 2021, 43, 2038-2044.	1.8	0
68	An Under-Actuated 5-DOF Robotic Manipulator for Ultrasound Transducer Guidance Using a Passive Four-Bar Linkage. , 2009, , .		0
69	Forearm Attachment for Postamputation Weight Lifting Exercise1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
70	Design and Kinematics of a Modular Robot for Assistive Tasks for the Disabled. , 2019, , .		0