

Judith M Burnfield

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,709
citations

304743

22
h-index

289244

40
g-index

71
all docs

71
docs citations

71
times ranked

1477
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Journal of Electromyography and Kinesiology</i> , 2022, 63, 102639.	1.7	1
2	Effect of gap-filling technique and gap location on linear and nonlinear calculations of motion during locomotor activities. <i>Gait and Posture</i> , 2022, 94, 85-92.	1.4	1
3	Test-retest reliability and minimal detectable change of the computerized dynamic posturography PROPRIO for adults with chronic traumatic brain injury. <i>Disability and Rehabilitation</i> , 2021, 43, 2038-2044.	1.8	0
4	Occupational injuries and patient lift usage among physical rehabilitation therapists. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2021, , 1-11.	1.1	2
5	Feasibility of motor-assisted elliptical to improve walking, fitness and balance following pediatric acquired brain injury: A case series. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2021, 14, 539-551.	0.5	2
6	Cardiorespiratory fitness, balance and walking improvements in an adolescent with cerebral palsy (GMFCS II) and autism after motor-assisted elliptical training. <i>European Journal of Physiotherapy</i> , 2020, 22, 124-132.	1.3	9
7	Variations in plantar pressure variables across elliptical trainers in older adults. <i>Clinical Biomechanics</i> , 2020, 80, 105142.	1.2	2
8	Comparison of plantar pressure profile of young adults during training on elliptical devices and overground walking: A pilot study. <i>Foot</i> , 2020, 45, 101716.	1.1	3
9	Effect of motor-assisted elliptical training speed and body weight support on center of pressure movement variability. <i>Gait and Posture</i> , 2020, 81, 138-143.	1.4	3
10	Perceived importance of AAC messages to support communication in rehabilitation settings. <i>Disability and Rehabilitation: Assistive Technology</i> , 2020, 16, 1-6.	2.2	4
11	Therapeutic massage to enhance family caregivers'™ well-being in a rehabilitation hospital. <i>Complementary Therapies in Clinical Practice</i> , 2019, 35, 361-367.	1.7	3
12	Impact of ICARE Training Speed and Motor Assistance on Cardiovascular Response. <i>Cardiopulmonary Physical Therapy Journal</i> , 2019, 30, 115-122.	0.3	7
13	Design and Validation of a Heart Rate and Speed Monitoring Device With Intelligently Controlled Assistive Rehabilitation Elliptical. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2019, 13, .	0.7	2
14	Adapted Motor-Assisted Elliptical for Rehabilitation of Children With Physical Disabilities. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2019, 13, .	0.7	6
15	Psychological difficulties and parental well-being in children with musculoskeletal problems in the 2011/2012 National Survey of Children's™ Health.. <i>Rehabilitation Psychology</i> , 2019, 64, 87-97.	1.3	5
16	Modular Self-Reconfigurable Robot for Autonomous Rehabilitation Assistance in Daily Living Tasks for Spinal Cord Injury Patients. , 2019, , .		2
17	Design and Kinematics of a Modular Robot for Assistive Tasks for the Disabled. , 2019, , .		0
18	Investigation of Center of Pressure during Gait and Motor-Assisted Elliptical Training in Adults. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, e206.	0.9	1

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19	Walking and Fitness Improvements in a Child With Diplegic Cerebral Palsy Following Motor-Assisted Elliptical Intervention. <i>Pediatric Physical Therapy</i> , 2018, 30, E1-E7.	0.6	9
20	Investigation of toppling ball flight in American football with a mechanical field-goal kicker. <i>Sports Engineering</i> , 2018, 21, 95-102.	1.1	1
21	Kinematic and muscle demand similarities between motor-assisted elliptical training and walking: Implications for pediatric gait rehabilitation. <i>Gait and Posture</i> , 2017, 51, 194-200.	1.4	13
22	Should Gait Outcomes be the Primary Focus in Pediatric Gait Rehabilitation?. <i>Journal of Novel Physiotherapies</i> , 2017, 7, .	0.1	1
23	Pedi-ICARE Training Improves Walking and Endurance of Child With Cerebral Palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, e19-e20.	0.9	2
24	Individuals with Multiple Sclerosis Improved Walking Endurance And Decreased Fatigue Following Motor-Assisted Elliptical Training Intervention. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, e34.	0.9	8
25	Computerized dynamic posturography detects balance deficits in individuals with a history of chronic severe traumatic brain injury. <i>Brain Injury</i> , 2016, 30, 1249-1255.	1.2	12
26	Frontal plane comparison between drop jump and vertical jump: implications for the assessment of ACL risk of injury. <i>Sports Biomechanics</i> , 2016, 15, 440-449.	1.6	19
27	Weight control practices of Division I National Collegiate Athletic Association athletes. <i>Physician and Sportsmedicine</i> , 2016, 44, 170-176.	2.1	7
28	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. <i>Human Movement Science</i> , 2016, 47, 16-28.	1.4	21
29	Video capture and post-processing technique for approximating 3D projectile trajectory. <i>Sports Technology</i> , 2015, 8, 124-129.	0.4	4
30	Novel Motor-Assisted Elliptical Training Intervention Improves 6-Minute Walk Test and Oxygen Cost for an Individual With Progressive Supranuclear Palsy. <i>Cardiopulmonary Physical Therapy Journal</i> , 2015, 26, 36-41.	0.3	18
31	Modification of the ICARE System for Pediatric Therapy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015, 9, .	0.7	5
32	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. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 911-922.	2.9	62
33	Speech Recognition for Environmental Control: Effect of Microphone Type, Dysarthria, and Severity on Recognition Results. <i>Assistive Technology</i> , 2015, 27, 199-207.	2.0	2
34	Mobility-Enhancing Fall-Prevention Device for Physical Rehabilitation1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	0
35	Patients' experiences with technology during inpatient rehabilitation: opportunities to support independence and therapeutic engagement. <i>Disability and Rehabilitation: Assistive Technology</i> , 2014, 9, 121-127.	2.2	29
36	Impact of a stance phase microprocessor-controlled knee prosthesis on level walking in lower functioning individuals with a transfemoral amputation. <i>Prosthetics and Orthotics International</i> , 2014, 38, 447-455.	1.0	45

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37	Comparative analysis of speed's impact on muscle demands during partial body weight support motor-assisted elliptical training. <i>Gait and Posture</i> , 2014, 39, 314-320.	1.4	21
38	The Effects of Peroneal Nerve Functional Electrical Stimulation Versus Ankle-Foot Orthosis in Patients With Chronic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 688-697.	2.9	92
39	Work Injuries Among Therapists In Physical Rehabilitation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 1072-1076.	0.3	4
40	Musculoskeletal Risk to Physical Therapists during Overground Gait Training. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 1219-1223.	0.3	4
41	Forearm Attachment for Postamputation Weight Lifting Exercise1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	0
42	Lower Extremity Kinematics During Walking and Elliptical Training in Individuals With and Without Traumatic Brain Injury. <i>Journal of Neurologic Physical Therapy</i> , 2013, 37, 176-186.	1.4	12
43	Comparative Kinematic and Electromyographic Assessment of Clinician- and Device-Assisted Sit-to-Stand Transfers in Patients With Stroke. <i>Physical Therapy</i> , 2013, 93, 1331-1341.	2.4	32
44	Monitoring cerebral hemodynamics with transcranial Doppler ultrasound during cognitive and exercise testing in adults following unilateral stroke. , 2012, 2012, 2310-3.		6
45	Improved Elliptical Trainer Biomechanics Using a Modified Cardan Gear. , 2012, , .		1
46	Impact of stance phase microprocessor-controlled knee prosthesis on ramp negotiation and community walking function in K2 level transfemoral amputees. <i>Prosthetics and Orthotics International</i> , 2012, 36, 95-104.	1.0	59
47	Kinematic and electromyographic analyses of normal and device-assisted sit-to-stand transfers. <i>Gait and Posture</i> , 2012, 36, 516-522.	1.4	43
48	Impact of Elliptical Trainer Ergonomic Modifications on Perceptions of Safety, Comfort, Workout, and Usability for People With Physical Disabilities and Chronic Conditions. <i>Physical Therapy</i> , 2011, 91, 1604-1617.	2.4	22
49	Modified Elliptical Machine Motor-Drive Design for Assistive Gait Rehabilitation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011, 5, .	0.7	19
50	Similarity of Joint Kinematics and Muscle Demands Between Elliptical Training and Walking: Implications for Practice. <i>Physical Therapy</i> , 2010, 90, 289-305.	2.4	74
51	Tendinopathy discrimination using spatial frequency parameters and Artificial Neural Networks. , 2009, , .		0
52	Nonsurgical Management of Posterior Tibial Tendon Dysfunction With Orthoses and Resistive Exercise: A Randomized Controlled Trial. <i>Physical Therapy</i> , 2009, 89, 26-37.	2.4	112
53	An Under-Actuated 5-DOF Robotic Manipulator for Ultrasound Transducer Guidance Using a Passive Four-Bar Linkage. , 2009, , .		0
54	Tendinopathy Discrimination by Use of Spatial Frequency Parameters in Ultrasound B-Mode Images. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 608-615.	8.9	55

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55	Muscle compensatory mechanisms during able-bodied toe walking. <i>Gait and Posture</i> , 2008, 27, 440-446.	1.4	13
56	Variations in Plantar Pressure Variables across Five Cardiovascular Exercises. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 2012-2020.	0.4	18
57	The neuromuscular demands of toe walking: A forward dynamics simulation analysis. <i>Journal of Biomechanics</i> , 2007, 40, 1293-1300.	2.1	29
58	The Role of Center of Mass Kinematics in Predicting Peak Utilized Coefficient of Friction During Walking*. <i>Journal of Forensic Sciences</i> , 2007, 52, 1328-1333.	1.6	26
59	Prediction of slips: an evaluation of utilized coefficient of friction and available slip resistance. <i>Ergonomics</i> , 2006, 49, 982-995.	2.1	85
60	Non-operative management of posterior tibialis tendon dysfunction: design of a randomized clinical trial [NCT00279630]. <i>BMC Musculoskeletal Disorders</i> , 2006, 7, 49.	1.9	16
61	Normal and Pathologic Gait. , 2006, , 119-125.		4
62	Effect of Foot Orthoses on Tibialis Posterior Activation in Persons with Pes Planus. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 24-29.	0.4	42
63	Comparison of utilized coefficient of friction during different walking tasks in persons with and without a disability. <i>Gait and Posture</i> , 2005, 22, 82-88.	1.4	35
64	The influence of walking speed and footwear on plantar pressures in older adults. <i>Clinical Biomechanics</i> , 2004, 19, 78-84.	1.2	255
65	The supine hip extensor manual muscle test: A reliability and validity study ¹¹ No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 1345-1350.	0.9	57
66	Energy expenditure and gait characteristics of a bilateral amputee walking with C-leg prostheses compared with stubby and conventional articulating prostheses. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 1711-1717.	0.9	58
67	Selective Activation of Tibialis Posterior: Evaluation by Magnetic Resonance Imaging. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 862-867.	0.4	48
68	Toe walking: Muscular demands at the ankle and knee. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003, 84, 7-16.	0.9	57
69	Utilized Coefficient of Friction During Walking: Static Estimates Exceed Measured Values. <i>Journal of Forensic Sciences</i> , 2002, 47, 1303-1308.	1.6	28
70	The influence of lower extremity joint torque on gait characteristics in elderly men. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1153-1157.	0.9	66