Patrick J Sparto Pt

List of Publications by Year in descending order

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		94433	133252
111	4,113	37	59
papers	citations	h-index	g-index
112	110	110	4220
113	113	113	4320
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Vestibular Rehabilitation for Dizziness and Balance Disorders After Concussion. Journal of Neurologic Physical Therapy, 2010, 34, 87-93.	1.4	368
2	Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. Clinical Biomechanics, 2004, 19, 44-49.	1.2	284
3	Cervicogenic Dizziness: A Review of Diagnosis and Treatment. Journal of Orthopaedic and Sports Physical Therapy, 2000, 30, 755-766.	3.5	197
4	The Effect of Fatigue on Multijoint Kinematics, Coordination, and Postural Stability During a Repetitive Lifting Test. Journal of Orthopaedic and Sports Physical Therapy, 1997, 25, 3-12.	3.5	154
5	The Reliability and Validity of the Four Square Step Test for People With Balance Deficits Secondary to a Vestibular Disorder. Archives of Physical Medicine and Rehabilitation, 2007, 88, 99-104.	0.9	127
6	Exercise Prescription Patterns in Patients Treated with Vestibular Rehabilitation After Concussion. Physiotherapy Research International, 2013, 18, 100-108.	1.5	111
7	The Effect of Fatigue on Multijoint Kinematics and Load Sharing During a Repetitive Lifting Test. Spine, 1997, 22, 2647-2654.	2.0	98
8	The five times sit to stand test: Responsiveness to change and concurrent validity in adults undergoing vestibular rehabilitation**. Journal of Vestibular Research: Equilibrium and Orientation, 2007, 16, 233-243.	2.0	94
9	Stiffness and Damping in Postural Control Increase With Age. IEEE Transactions on Biomedical Engineering, 2010, 57, 267-275.	4.2	85
10	Sensory re-weighting in human postural control during moving-scene perturbations. Experimental Brain Research, 2005, 167, 260-267.	1.5	82
11	Comparison of Virtual Reality Based Therapy With Customized Vestibular Physical Therapy for the Treatment of Vestibular Disorders. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 389-399.	4.9	74
12	The influence of dynamic visual cues for postural control in children aged 7–12Âyears. Experimental Brain Research, 2006, 168, 505-516.	1.5	72
13	Quantitative comparison of correction techniques for removing systemic physiological signal in functional near-infrared spectroscopy studies. Neurophotonics, 2020, 7, 035009.	3.3	67
14	Wavelet and short-time Fourier transform analysis of electromyography for detection of back muscle fatigue. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 433-436.	1.4	63
15	Wavelet Analysis of Electromyography For Back Muscle Fatigue Detection During Isokinetic Constant-Torque Exertions. Spine, 1999, 24, 1791.	2.0	60
16	Reliability and Validity of the Falls Efficacy Scale–International (FES-I) in Individuals With Dizziness and Imbalance. Otology and Neurotology, 2013, 34, 1104-1108.	1.3	60
17	Physical Activity and Physical Function in Individuals Post-bariatric Surgery. Obesity Surgery, 2011, 21, 1243-1249.	2.1	57
18	Principles of vestibular physical therapy rehabilitation. NeuroRehabilitation, 2011, 29, 157-166.	1.3	56

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19	The Development and Validation of the Vestibular Activities and Participation Measure. Archives of Physical Medicine and Rehabilitation, 2012, 93, 1822-1831.	0.9	56
20	Functional brain imaging of multi-sensory vestibular processing during computerized dynamic posturography using near-infrared spectroscopy. NeuroImage, 2013, 74, 318-325.	4.2	54
21	Relationship Between Cognitive Assessment and Balance Measures in Adolescents Referred for Vestibular Physical Therapy After Concussion. Clinical Journal of Sport Medicine, 2016, 26, 46-52.	1.8	54
22	Acrophobia and Pathological Height Vertigo: Indications for Vestibular Physical Therapy?. Physical Therapy, 2005, 85, 443-458.	2.4	52
23	Postural adaptations to repeated optic flow stimulation in older adults. Gait and Posture, 2008, 28, 385-391.	1.4	50
24	Assessment of Fine Motor Control in Individuals with Parkinson's Disease Using Force Tracking with a Secondary Cognitive Task. Journal of Neurologic Physical Therapy, 2010, 34, 32-40.	1.4	48
25	Neuromuscular Trunk Performance and Spinal Loading During a Fatiguing Isometric Trunk Extension with Varying Torque Requirements. Journal of Spinal Disorders, 1997, 10, 145???156.	1.1	47
26	Responses to a Virtual Reality Grocery Store in Persons with and without Vestibular Dysfunction. Cyberpsychology, Behavior and Social Networking, 2006, 9, 152-156.	2.2	47
27	Estimating Postural Control With the Balance Rehabilitation Unit: Measurement Consistency, Accuracy, Validity, and Comparison With Dynamic Posturography. Archives of Physical Medicine and Rehabilitation, 2014, 95, 65-73.	0.9	47
28	The five times sit to stand test: responsiveness to change and concurrent validity in adults undergoing vestibular rehabilitation. Journal of Vestibular Research: Equilibrium and Orientation, 2006, 16, 233-43.	2.0	47
29	Challenging the motor control of walking: Gait variability during slower and faster pace walking conditions in younger and older adults. Archives of Gerontology and Geriatrics, 2016, 66, 54-61.	3.0	46
30	Neuroimaging of an attention demanding dual-task during dynamic postural control. Gait and Posture, 2017, 57, 193-198.	1.4	46
31	Estimation of Trunk Muscle Forces and Spinal Loads During Fatiguing Repetitive Trunk Exertions. Spine, 1998, 23, 2563-2573.	2.0	45
32	The Influence of Body Mass Index on Self-report and Performance-based Measures of Physical Function in Adult Women. Cardiopulmonary Physical Therapy Journal, 2011, 22, 11-20.	0.3	45
33	Functional MR imaging of a simulated balance task. Brain Research, 2014, 1555, 20-27.	2.2	45
34	Longitudinal posturography and rotational testing in children three to nine years of age: Normative data. Otolaryngology - Head and Neck Surgery, 2010, 142, 708-714.	1.9	42
35	Spectral and Temporal Responses of Trunk Extensor Electromyography to an Isometric Endurance Test. Spine, 1997, 22, 418-426.	2.0	41
36	Comparison of the Ferno Scoop Stretcher with the Long Backboard for Spinal Immobilization. Prehospital Emergency Care, 2006, 10, 46-51.	1.8	40

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37	Correction of motion artifacts and serial correlations for real-time functional near-infrared spectroscopy. Neurophotonics, 2016, 3, 031410.	3.3	40
38	Functional near-infrared spectroscopy (fNIRS) brain imaging of multi-sensory integration during computerized dynamic posturography in middle-aged and older adults. Experimental Brain Research, 2017, 235, 1247-1256.	1.5	39
39	Measurement of brain activation during an upright stepping reaction task using functional nearâ€infrared spectroscopy. Human Brain Mapping, 2013, 34, 2817-2828.	3.6	37
40	Explicit Action Switching Interferes with the Context-Specificity of Motor Memories in Older Adults. Frontiers in Aging Neuroscience, 2017, 9, 40.	3.4	37
41	The steady-state postural response to continuous sinusoidal galvanic vestibular stimulation. Gait and Posture, 2003, 18, 64-72.	1.4	36
42	Postural adjustment errors reveal deficits in inhibition during lateral step initiation in older adults. Journal of Neurophysiology, 2013, 109, 415-428.	1.8	36
43	Responsiveness of Self-Report Measures in Individuals With Vertigo, Dizziness, and Unsteadiness. Otology and Neurotology, 2014, 35, 884-888.	1.3	35
44	Motor sequence learning-induced neural efficiency in functional brain connectivity. Behavioural Brain Research, 2017, 319, 87-95.	2.2	35
45	Altered Gait Characteristics in Individuals With Knee Osteoarthritis and Self-Reported Knee Instability. Journal of Orthopaedic and Sports Physical Therapy, 2015, 45, 351-359.	3.5	33
46	Vestibulo-Ocular Reflex Function in Adolescents With Sport-Related Concussion: Preliminary Results. Sports Health, 2019, 11, 479-485.	2.7	33
47	Simulator sickness when performing gaze shifts within a wide field of view optic flow environment: preliminary evidence for using virtual reality in vestibular rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2004, 1, 14.	4.6	30
48	A technology probe of wearable in-home computer-assisted physical therapy. , 2014, , .		29
49	Vestibular Rehabilitation and Factors That Can Affect Outcome. Seminars in Neurology, 2020, 40, 165-172.	1.4	29
50	Change in Knee Cartilage Volume in Individuals Completing a Therapeutic Exercise Program for Knee Osteoarthritis. Journal of Orthopaedic and Sports Physical Therapy, 2011, 41, 708-722.	3.5	27
51	The reliability and response stability of dynamic testing of the vestibulo-ocular reflex in patients with vestibular disease. Journal of Vestibular Research: Equilibrium and Orientation, 2011, 21, 277-288.	2.0	27
52	The test–retest reliability and minimal detectable change of spatial and temporal gait variability during usual over-ground walking for younger and older adults. Gait and Posture, 2016, 44, 94-99.	1.4	27
53	Performance of High School Adolescents on Functional Gait and Balance Measures. Pediatric Physical Therapy, 2014, 26, 191-199.	0.6	24
54	The usefulness of the video head impulse test in children and adults post-concussion. Journal of Vestibular Research: Equilibrium and Orientation, 2017, 26, 439-446.	2.0	24

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55	Spectrally similar periodic and non-periodic optic flows evoke different postural sway responses. Gait and Posture, 2006, 23, 180-188.	1.4	23
56	The effect of age on postural and cognitive task performance while using vibrotactile feedback. Journal of Neurophysiology, 2015, 113, 2127-2136.	1.8	22
57	Changes in cerebral activation in individuals with and without visual vertigo during optic flow: A functional near-infrared spectroscopy study. NeuroImage: Clinical, 2018, 20, 655-663.	2.7	22
58	Effect of Electromyogram-Force Relationships and Method of Gain Estimation on the Predictions of an Electromyogram-Driven Model of Spinal Loading. Spine, 1998, 23, 423-429.	2.0	21
59	Eye Movements, Dizziness, and Mild Traumatic Brain Injury (mTBI): A Topical Review of Emerging Evidence and Screening Measures. Journal of Neurologic Physical Therapy, 2019, 43, S31-S36.	1.4	21
60	Lateral step initiation behavior in older adults. Gait and Posture, 2014, 39, 799-803.	1.4	20
61	Standing balance and strength measurements in older adults living in residential care communities. Aging Clinical and Experimental Research, 2017, 29, 1021-1030.	2.9	18
62	Functional imaging of cognition in an old-old population: A case for portable functional near-infrared spectroscopy. PLoS ONE, 2017, 12, e0184918.	2.5	17
63	Contributions to lateral balance control in ambulatory older adults. Aging Clinical and Experimental Research, 2018, 30, 633-641.	2.9	17
64	Determination of the effect of lift characteristics on dynamic performance profiles during manual materials handling tasks. Ergonomics, 1999, 42, 126-145.	2.1	16
65	Gray Matter Regions Associated With Functional Mobility in Communityâ€Dwelling Older Adults. Journal of the American Geriatrics Society, 2020, 68, 1023-1028.	2.6	16
66	Acrophobia and pathological height vertigo: indications for vestibular physical therapy?. Physical Therapy, 2005, 85, 443-58.	2.4	16
67	Generalizability of trunk muscle EMG and spinal forces. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 72-81.	0.8	15
68	The use of virtual reality for people with balance and vestibular disorders: the Pittsburgh experience. Physical Therapy Reviews, 2009, 14, 299-306.	0.8	15
69	Predictors of Functional and Gait Outcomes for Persons Poststroke Undergoing Home-based Rehabilitation. Journal of Stroke and Cerebrovascular Diseases, 2014, 23, 1856-1864.	1.6	15
70	iPod-based in-home system for monitoring gaze-stabilization exercise compliance of individuals with vestibular hypofunction. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 69.	4.6	15
71	Functional near-infrared spectroscopy during optic flow with and without fixation. PLoS ONE, 2018, 13, e0193710.	2.5	15
72	Tympanostomy Tube Placement and Vestibular Function in Children. Otolaryngology - Head and Neck Surgery, 2011, 145, 666-672.	1.9	13

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73	Postural adjustment errors during lateral step initiation in older and younger adults. Experimental Brain Research, 2014, 232, 3977-3989.	1.5	13
74	The Effect of Lifting Belt Use on Multijoint Motion and Load Bearing During Repetitive and Asymmetric Lifting. Journal of Spinal Disorders, 1998, 11, 57???64.	1.1	12
75	Detecting postural responses to sinusoidal sensory inputs: a statistical approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 360-366.	4.9	12
76	Contribution of Vision to Balance in Children Four to Eight Years of Age. Annals of Otology, Rhinology and Laryngology, 2007, 116, 653-657.	1.1	12
77	Delays in auditory-cued step initiation are related to increased volume of white matter hyperintensities in older adults. Experimental Brain Research, 2008, 188, 633-640.	1.5	12
78	A Quality Improvement Project in Balance and Vestibular Rehabilitation and Its Effect on Clinical Outcomes. Journal of Neurologic Physical Therapy, 2016, 40, 90-99.	1.4	11
79	Psychometric properties of instrumented postural sway measures recorded in community settings in independent living older adults. BMC Geriatrics, 2020, 20, 82.	2.7	11
80	Feature extraction and quantification of the variability of dynamic performance profiles due to the different sagittal lift characteristics. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1999, 7, 278-288.	1.4	10
81	An Electromyography-Assisted Model to Estimate Trunk Muscle Forces During Fatiguing Repetitive Trunk Exertions. Journal of Spinal Disorders, 1999, 12, 509???518.	1.1	9
82	An investigation of fMRI time series stationarity during motor sequence learning foot tapping tasks. Journal of Neuroscience Methods, 2014, 227, 75-82.	2.5	9
83	Effect of home-based rehabilitation on activities of daily living and gait in older adults with heart failure at risk for falling: A retrospective cohort study. Physiotherapy Theory and Practice, 2017, 33, 943-953.	1.3	9
84	Reliability and Validity of Ratings of Perceived Difficulty During Performance of Static Standing Balance Exercises. Physical Therapy, 2019, 99, 1381-1393.	2.4	9
85	Exploratory Factor Analysis of the Vestibular Activities Avoidance Instrument. JAMA Otolaryngology - Head and Neck Surgery, 2021, 147, 144.	2.2	9
86	Fear Avoidance Beliefs Are Associated With Perceived Disability in Persons With Vestibular Disorders. Physical Therapy, 2021, 101, .	2.4	9
87	Head sway response to optic flow: Effect of age is more important than the presence of unilateral vestibular hypofunction. Journal of Vestibular Research: Equilibrium and Orientation, 2006, 16, 137-145.	2.0	9
88	Effect of Community-Based Group Exercise Interventions on Standing Balance and Strength in Independent Living Older Adults. Journal of Geriatric Physical Therapy, 2019, 42, E7-E15.	1.1	8
89	Neuroimaging correlates of lateral postural control in older ambulatory adults. Aging Clinical and Experimental Research, 2019, 31, 611-619.	2.9	7
90	The reliability and validity of a lift simulator and its functional equivalence with free weight lifting tasks. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1995, 3, 155-164.	1.4	6

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91	QUANTIFICATION OF DIRECTION AND MAGNITUDE OF CYCLICAL POSTURAL SWAY USING ELLIPSES. Biomedical Engineering - Applications, Basis and Communications, 2001, 13, 213-217.	0.6	6
92	Vestibular rehabilitation using a wide field of view virtual environment. , 2004, 2004, 4836-9.		6
93	Medial-lateral postural control in older adults exhibits increased stiffness and damping. , 2009, 2009, 7006-9.		6
94	Symptoms elicited in persons with vestibular dysfunction while performing gaze movements in optic flow environments1. Journal of Vestibular Research: Equilibrium and Orientation, 2013, 23, 51-60.	2.0	6
95	The Use of Vibrotactile Feedback During Dual-Task Standing Balance Conditions in People With Unilateral Vestibular Hypofunction. Otology and Neurotology, 2018, 39, e349-e356.	1.3	6
96	Shared neural substrates of cognitive function and postural control in older adults. Alzheimer's and Dementia, 2020, 16, 621-629.	0.8	6
97	The Gaze Stabilization Test Following Concussion. Journal of the American Academy of Audiology, 2018, , .	0.7	6
98	Perceptual and Motor Inhibition in Individuals With Vestibular Disorders. Journal of Neurologic Physical Therapy, 2010, 34, 76-81.	1.4	5
99	The Effect of Auditory Cueing on the Spatial and Temporal Gait Coordination in Healthy Adults. Journal of Motor Behavior, 2019, 51, 25-31.	0.9	5
100	The Effect of a Verbal Cognitive Task on Postural Sway Does Not Persist When the Task Is Over. Sensors, 2021, 21, 8428.	3.8	5
101	The Effect of Optotype Size and Velocity Parameters on the Performance of Healthy Young Adult Subjects on the Gaze Stabilization Test. Otology and Neurotology, 2013, 34, 1090-1095.	1.3	4
102	Impact of strength and balance on Functional Gait Assessment performance in older adults. Gait and Posture, 2022, 91, 306-311.	1.4	4
103	Head sway response to optic flow: effect of age is more important than the presence of unilateral vestibular hypofunction. Journal of Vestibular Research: Equilibrium and Orientation, 2006, 16, 137-45.	2.0	4
104	Perception of verticality is altered in people with severe chronic low back pain compared to healthy controls: A cross-sectional study. Musculoskeletal Science and Practice, 2020, 45, 102074.	1.3	3
105	Interpersonal interactions for haptic guidance during balance exercises. Gait and Posture, 2018, 65, 129-136.	1.4	2
106	The adaptations to fatigue during a repetitive lifting test. , 0, , .		1
107	Relation between ability to track force during dual tasking and function in individuals with Parkinson's disease. , 2009, , .		1
108	Vestibular Dysfunction Associated With Mild Traumatic Brain Injury (mTBI). , 2019, , 133-148.		1

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109	Psychometric Properties of Lower Extremity Strength Measurements Recorded in Community Settings in Independent Living Older Adults. Experimental Aging Research, 2019, 45, 282-292.	1.2	1
110	Quadriceps fatigue test: Test-retest reliability study and relationship to quadriceps activation failure. Physiotherapy Practice and Research, 2015, 36, 65-72.	0.1	0
111	Utility Of An Incongruent Visual, Cognitive-balance Dual Task To Assess Impairment In Athletes With Concussion. Medicine and Science in Sports and Exercise, 2016, 48, 653.	0.4	Ο