Patrick J Sparto Pt

List of Publications by Year
in descending order

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111	4,113	94433	133252
papers	citations	37 h-index	59 g-index

113	113	113	4320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impact of strength and balance on Functional Gait Assessment performance in older adults. Gait and Posture, 2022, 91, 306-311.	1.4	4
2	Exploratory Factor Analysis of the Vestibular Activities Avoidance Instrument. JAMA Otolaryngology - Head and Neck Surgery, 2021, 147, 144.	2.2	9
3	Fear Avoidance Beliefs Are Associated With Perceived Disability in Persons With Vestibular Disorders. Physical Therapy, 2021, 101, .	2.4	9
4	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
5	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
6	Vestibular Rehabilitation and Factors That Can Affect Outcome. Seminars in Neurology, 2020, 40, 165-172.	1.4	29
7	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
8	Shared neural substrates of cognitive function and postural control in older adults. Alzheimer's and Dementia, 2020, 16, 621-629.	0.8	6
9	Psychometric properties of instrumented postural sway measures recorded in community settings in independent living older adults. BMC Geriatrics, 2020, 20, 82.	2.7	11
10	Quantitative comparison of correction techniques for removing systemic physiological signal in functional near-infrared spectroscopy studies. Neurophotonics, 2020, 7, 035009.	3.3	67
11	Vestibulo-Ocular Reflex Function in Adolescents With Sport-Related Concussion: Preliminary Results. Sports Health, 2019, 11, 479-485.	2.7	33
12	Reliability and Validity of Ratings of Perceived Difficulty During Performance of Static Standing Balance Exercises. Physical Therapy, 2019, 99, 1381-1393.	2.4	9
13	Vestibular Dysfunction Associated With Mild Traumatic Brain Injury (mTBI). , 2019, , 133-148.		1
14	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
15	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
16	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
17	Neuroimaging correlates of lateral postural control in older ambulatory adults. Aging Clinical and Experimental Research, 2019, 31, 611-619.	2.9	7
18	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

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19	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
20	Contributions to lateral balance control in ambulatory older adults. Aging Clinical and Experimental Research, 2018, 30, 633-641.	2.9	17
21	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
22	Interpersonal interactions for haptic guidance during balance exercises. Gait and Posture, 2018, 65, 129-136.	1.4	2
23	Functional near-infrared spectroscopy during optic flow with and without fixation. PLoS ONE, 2018, 13, e0193710.	2.5	15
24	The Gaze Stabilization Test Following Concussion. Journal of the American Academy of Audiology, 2018, , .	0.7	6
25	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
26	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
27	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
28	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
29	Neuroimaging of an attention demanding dual-task during dynamic postural control. Gait and Posture, 2017, 57, 193-198.	1.4	46
30	Motor sequence learning-induced neural efficiency in functional brain connectivity. Behavioural Brain Research, 2017, 319, 87-95.	2.2	35
31	Explicit Action Switching Interferes with the Context-Specificity of Motor Memories in Older Adults. Frontiers in Aging Neuroscience, 2017, 9, 40.	3.4	37
32	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
33	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
34	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
35	Correction of motion artifacts and serial correlations for real-time functional near-infrared spectroscopy. Neurophotonics, 2016, 3, 031410.	3.3	40
36	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

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37	The testâ€“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
38	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	0
39	Quadriceps fatigue test: Test-retest reliability study and relationship to quadriceps activation failure. Physiotherapy Practice and Research, 2015, 36, 65-72.	0.1	0
40	The effect of age on postural and cognitive task performance while using vibrotactile feedback. Journal of Neurophysiology, 2015, 113, 2127-2136.	1.8	22
41	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
42	A technology probe of wearable in-home computer-assisted physical therapy. , 2014, , .		29
43	Postural adjustment errors during lateral step initiation in older and younger adults. Experimental Brain Research, 2014, 232, 3977-3989.	1.5	13
44	Performance of High School Adolescents on Functional Gait and Balance Measures. Pediatric Physical Therapy, 2014, 26, 191-199.	0.6	24
45	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
46	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
47	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
48	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
49	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
50	Lateral step initiation behavior in older adults. Gait and Posture, 2014, 39, 799-803.	1.4	20
51	Functional MR imaging of a simulated balance task. Brain Research, 2014, 1555, 20-27.	2.2	45
52	Responsiveness of Self-Report Measures in Individuals With Vertigo, Dizziness, and Unsteadiness. Otology and Neurotology, 2014, 35, 884-888.	1.3	35
53	Exercise Prescription Patterns in Patients Treated with Vestibular Rehabilitation After Concussion. Physiotherapy Research International, 2013, 18, 100-108.	1.5	111
54	Postural adjustment errors reveal deficits in inhibition during lateral step initiation in older adults. Journal of Neurophysiology, 2013, 109, 415-428.	1.8	36

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55	Functional brain imaging of multi-sensory vestibular processing during computerized dynamic posturography using near-infrared spectroscopy. NeuroImage, 2013, 74, 318-325.	4.2	54
56	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
57	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
58	Reliability and Validity of the Falls Efficacy Scaleâ€"International (FES-I) in Individuals With Dizziness and Imbalance. Otology and Neurotology, 2013, 34, 1104-1108.	1.3	60
59	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
60	The Development and Validation of the Vestibular Activities and Participation Measure. Archives of Physical Medicine and Rehabilitation, 2012, 93, 1822-1831.	0.9	56
61	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
62	Principles of vestibular physical therapy rehabilitation. NeuroRehabilitation, 2011, 29, 157-166.	1.3	56
63	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
64	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
65	Physical Activity and Physical Function in Individuals Post-bariatric Surgery. Obesity Surgery, 2011, 21, 1243-1249.	2.1	57
66	Tympanostomy Tube Placement and Vestibular Function in Children. Otolaryngology - Head and Neck Surgery, 2011, 145, 666-672.	1.9	13
67	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
68	Stiffness and Damping in Postural Control Increase With Age. IEEE Transactions on Biomedical Engineering, 2010, 57, 267-275.	4.2	85
69	Perceptual and Motor Inhibition in Individuals With Vestibular Disorders. Journal of Neurologic Physical Therapy, 2010, 34, 76-81.	1.4	5
70	Vestibular Rehabilitation for Dizziness and Balance Disorders After Concussion. Journal of Neurologic Physical Therapy, 2010, 34, 87-93.	1.4	368
71	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
72	Medial-lateral postural control in older adults exhibits increased stiffness and damping. , 2009, 2009, 7006-9.		6

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73	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
74	Relation between ability to track force during dual tasking and function in individuals with Parkinson's disease. , 2009, , .		1
75	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
76	Postural adaptations to repeated optic flow stimulation in older adults. Gait and Posture, 2008, 28, 385-391.	1.4	50
77	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
78	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
79	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
80	Spectrally similar periodic and non-periodic optic flows evoke different postural sway responses. Gait and Posture, 2006, 23, 180-188.	1.4	23
81	The influence of dynamic visual cues for postural control in children aged 7â€“12Âyears. Experimental Brain Research, 2006, 168, 505-516.	1.5	72
82	Comparison of the Ferno Scoop Stretcher with the Long Backboard for Spinal Immobilization. Prehospital Emergency Care, 2006, 10, 46-51.	1.8	40
83	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
84	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
85	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
86	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
87	Acrophobia and Pathological Height Vertigo: Indications for Vestibular Physical Therapy?. Physical Therapy, 2005, 85, 443-458.	2.4	52
88	Sensory re-weighting in human postural control during moving-scene perturbations. Experimental Brain Research, 2005, 167, 260-267.	1.5	82
89	Acrophobia and pathological height vertigo: indications for vestibular physical therapy?. Physical Therapy, 2005, 85, 443-58.	2.4	16
90	Vestibular rehabilitation using a wide field of view virtual environment. , 2004, 2004, 4836-9.		6

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91	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
92	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
93	Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. Clinical Biomechanics, 2004, 19, 44-49.	1.2	284
94	The steady-state postural response to continuous sinusoidal galvanic vestibular stimulation. Gait and Posture, 2003, 18, 64-72.	1.4	36
95	Generalizability of trunk muscle EMG and spinal forces. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 72-81.	0.8	15
96	QUANTIFICATION OF DIRECTION AND MAGNITUDE OF CYCLICAL POSTURAL SWAY USING ELLIPSES. Biomedical Engineering - Applications, Basis and Communications, 2001, 13, 213-217.	0.6	6
97	Cervicogenic Dizziness: A Review of Diagnosis and Treatment. Journal of Orthopaedic and Sports Physical Therapy, 2000, 30, 755-766.	3.5	197
98	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
99	Determination of the effect of lift characteristics on dynamic performance profiles during manual materials handling tasks. Ergonomics, 1999, 42, 126-145.	2.1	16
100	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
101	Wavelet Analysis of Electromyography For Back Muscle Fatigue Detection During Isokinetic Constant-Torque Exertions. Spine, 1999, 24, 1791.	2.0	60
102	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
103	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
104	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
105	Estimation of Trunk Muscle Forces and Spinal Loads During Fatiguing Repetitive Trunk Exertions. Spine, 1998, 23, 2563-2573.	2.0	45
106	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
107	Spectral and Temporal Responses of Trunk Extensor Electromyography to an Isometric Endurance Test. Spine, 1997, 22, 418-426.	2.0	41
108	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

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109	The Effect of Fatigue on Multijoint Kinematics and Load Sharing During a Repetitive Lifting Test. Spine, 1997, 22, 2647-2654.	2.0	98
110	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
111	The adaptations to fatigue during a repetitive lifting test. , 0, , .		1