

# Paul Van Donkelaar

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,866  
citations

87888

38  
h-index

128289

60  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Single-Task Versus Dual-Task Training on Balance Performance in Older Adults: A Double-Blind, Randomized Controlled Trial. Archives of Physical Medicine and Rehabilitation, 2009, 90, 381-387.	0.9	310
2	Gait Stability following Concussion. Medicine and Science in Sports and Exercise, 2006, 38, 1032-1040.	0.4	178
3	Tracking the recovery of visuospatial attention deficits in mild traumatic brain injury. Brain, 2006, 129, 747-753.	7.6	142
4	Cognitive task effects on gait stability following concussion. Experimental Brain Research, 2007, 176, 23-31.	1.5	140
5	Effects of Concussion on Attention and Executive Function in Adolescents. Medicine and Science in Sports and Exercise, 2013, 45, 1030-1037.	0.4	140
6	Pointing movements are affected by size-contrast illusions. Experimental Brain Research, 1999, 125, 517-520.	1.5	127
7	The effect of divided attention on gait stability following concussion. Clinical Biomechanics, 2005, 20, 389-395.	1.2	126
8	The potential for animal models to provide insight into mild traumatic brain injury: Translational challenges and strategies. Neuroscience and Biobehavioral Reviews, 2017, 76, 396-414.	6.1	125
9	Recovery of cognitive and dynamic motor function following concussion. British Journal of Sports Medicine, 2007, 41, 868-873.	6.7	101
10	Altered balance control following concussion is better detected with an attention test during gait. Gait and Posture, 2007, 25, 406-411.	1.4	101
11	Different gait tasks distinguish immediate vs. long-term effects of concussion on balance control. Journal of NeuroEngineering and Rehabilitation, 2009, 6, 25.	4.6	88
12	Balance control during gait in athletes and non-athletes following concussion. Medical Engineering and Physics, 2008, 30, 959-967.	1.7	80
13	Myelin Water Fraction Is Transiently Reduced after a Single Mild Traumatic Brain Injury – A Prospective Cohort Study in Collegiate Hockey Players. PLoS ONE, 2016, 11, e0150215.	2.5	80
14	Preprogramming vs. on-line control in simple movement sequences. Acta Psychologica, 1991, 77, 1-19.	1.5	79
15	Dorsal and ventral visual stream contributions to perception-action interactions during pointing. Experimental Brain Research, 2002, 143, 440-446.	1.5	78
16	The allocation of attention during smooth pursuit eye movements. Progress in Brain Research, 2002, 140, 267-277.	1.4	70
17	The effects of attention capacity on dynamic balance control following concussion. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 8.	4.6	68
18	Eye hand coordination in children with cerebral palsy. Experimental Brain Research, 2009, 192, 155-165.	1.5	67

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19	Effects of a secondary task on obstacle avoidance in healthy young adults. <i>Experimental Brain Research</i> , 2008, 184, 115-120.	1.5	65
20	The Interaction Between Executive Attention and Postural Control in Dual-Task Conditions: Children With Cerebral Palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 834-842.	0.9	65
21	Eye-hand interactions during goal-directed pointing movements. <i>NeuroReport</i> , 1997, 8, 2139-2142.	1.2	64
22	Head stability during quiet sitting in children with cerebral palsy: effect of vision and trunk support. <i>Experimental Brain Research</i> , 2010, 201, 13-23.	1.5	64
23	Development of postural control during gait in typically developing children: The effects of dual-task conditions. <i>Gait and Posture</i> , 2012, 35, 428-434.	1.4	63
24	Transcranial Magnetic Stimulation Disrupts Eye-Hand Interactions in the Posterior Parietal Cortex. <i>Journal of Neurophysiology</i> , 2000, 84, 1677-1680.	1.8	60
25	Heading in soccer increases serum neurofilament light protein and SCAT3 symptom metrics. <i>BMJ Open Sport and Exercise Medicine</i> , 2018, 4, e000433.	2.9	58
26	Shoulder joint position sense improves with elevation angle in a novel, unconstrained task. <i>Journal of Orthopaedic Research</i> , 2006, 24, 559-568.	2.3	56
27	Spatial orientation of attention and obstacle avoidance following concussion. <i>Experimental Brain Research</i> , 2009, 194, 67-77.	1.5	56
28	Sport-Related Concussion Alters Indices of Dynamic Cerebral Autoregulation. <i>Frontiers in Neurology</i> , 2018, 9, 196.	2.4	53
29	Human Supplementary Motor Area Contribution to Predictive Motor Planning. <i>Journal of Motor Behavior</i> , 2011, 43, 303-309.	0.9	52
30	Attentional disengagement dysfunction following mTBI assessed with the gap saccade task. <i>Neuroscience Letters</i> , 2007, 417, 61-65.	2.1	49
31	Shoulder Joint Position Sense Improves With External Load. <i>Journal of Motor Behavior</i> , 2007, 39, 517-525.	0.9	48
32	Dual-task interference during obstacle clearance in healthy and balance-impaired older adults. <i>Aging Clinical and Experimental Research</i> , 2008, 20, 349-354.	2.9	47
33	Attentional mechanisms contributing to balance constraints during gait: The effects of balance impairments. <i>Brain Research</i> , 2009, 1248, 59-67.	2.2	47
34	Spatiotemporal modulation of attention during smooth pursuit eye movements. <i>NeuroReport</i> , 1999, 10, 2523-2526.	1.2	44
35	Eye-hand coordination to visual versus remembered targets. <i>Experimental Brain Research</i> , 2000, 133, 414-418.	1.5	44
36	Interaction Between the Development of Postural Control and the Executive Function of Attention. <i>Journal of Motor Behavior</i> , 2008, 40, 90-102.	0.9	43

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37	A Prospective Transcranial Doppler Ultrasound-Based Evaluation of the Acute and Cumulative Effects of Sport-Related Concussion on Neurovascular Coupling Response Dynamics. <i>Journal of Neurotrauma</i> , 2017, 34, 3097-3106.	3.4	41
38	Craniotopic updating of visual space across saccades in the human posterior parietal cortex. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 735-739.	2.6	40
39	Cerebrovascular reactivity assessed by transcranial Doppler ultrasound in sport-related concussion: a systematic review. <i>British Journal of Sports Medicine</i> , 2015, 49, 1050-1055.	6.7	39
40	Characterizing symptoms of traumatic brain injury in survivors of intimate partner violence. <i>Brain Injury</i> , 2019, 33, 1529-1538.	1.2	39
41	Saccadic Output Is Influenced by Limb Kinetics During Eye-Hand Coordination. <i>Journal of Motor Behavior</i> , 2004, 36, 245-252.	0.9	37
42	Tactile gating in a reaching and grasping task. <i>Physiological Reports</i> , 2014, 2, e00267.	1.7	37
43	Predicting Future Sensorimotor States Influences Current Temporal Decision Making. <i>Journal of Neuroscience</i> , 2011, 31, 10019-10022.	3.6	35
44	Imaging in Pediatric Concussion: A Systematic Review. <i>Pediatrics</i> , 2018, 141, .	2.1	35
45	Where $\hat{=}$ s Waldo ? The utility of a complicated visual search paradigm for transcranial Doppler-based assessments of neurovascular coupling. <i>Journal of Neuroscience Methods</i> , 2016, 270, 92-101.	2.5	31
46	No change in plasma tau and serum neurofilament light concentrations in adolescent athletes following sport-related concussion. <i>PLoS ONE</i> , 2018, 13, e0206466.	2.5	31
47	Attentional and Biomechanical Deficits Interact After Mild Traumatic Brain Injury. <i>Exercise and Sport Sciences Reviews</i> , 2006, 34, 77-82.	3.0	30
48	Executive Dysfunction Assessed with a Task-Switching Task following Concussion. <i>PLoS ONE</i> , 2014, 9, e91379.	2.5	30
49	Systolic and Diastolic Regulation of the Cerebral Pressure-Flow Relationship Differentially Affected by Acute Sport-Related Concussion. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 303-308.	1.0	23
50	A global collaboration to study intimate partner violence-related head trauma: The ENIGMA consortium IPV working group. <i>Brain Imaging and Behavior</i> , 2021, 15, 475-503.	2.1	21
51	Saccade amplitude influences pointing movement kinematics. <i>NeuroReport</i> , 1998, 9, 2015-2018.	1.2	20
52	Multiple Saccades Are More Automatic Than Single Saccades. <i>Journal of Neurophysiology</i> , 2007, 97, 3148-3151.	1.8	20
53	Cancelling planned actions following mild traumatic brain injury. <i>Neuropsychologia</i> , 2007, 45, 406-411.	1.6	20
54	The effects of demanding temporal accuracy on the programming of simple tapping sequences. <i>Acta Psychologica</i> , 1990, 74, 1-14.	1.5	19

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55	The Contribution of the Human FEF and SEF to Smooth Pursuit Initiation. <i>Cerebral Cortex</i> , 2007, 17, 2618-2624.	2.9	19
56	An Acute Bout of Soccer Heading Subtly Alters Neurovascular Coupling Metrics. <i>Frontiers in Neurology</i> , 2020, 11, 738.	2.4	17
57	A comparison of directly recorded and derived acceleration data in movement control research. <i>Human Movement Science</i> , 1990, 9, 573-582.	1.4	16
58	Characterization of Cognitive-Motor Function in Women Who Have Experienced Intimate Partner Violence-Related Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 2723-2730.	3.4	16
59	Distracting visuospatial attention while approaching an obstacle reduces the toe-obstacle clearance. <i>Experimental Brain Research</i> , 2015, 233, 1137-1144.	1.5	15
60	Cerebral Autoregulation Is Disrupted Following a Season of Contact Sports Participation. <i>Frontiers in Neurology</i> , 2018, 9, 868.	2.4	15
61	Eye-hand interactions differ in the human premotor and parietal cortices. <i>Human Movement Science</i> , 2002, 21, 65-74.	1.4	14
62	Gaze-Dependent Deviation in Pointing Induced by Transcranial Magnetic Stimulation Over the Human Posterior Parietal Cortex. <i>Journal of Motor Behavior</i> , 2005, 37, 157-163.	0.9	14
63	Response preparation and control of movement sequences.. <i>Canadian Journal of Experimental Psychology</i> , 1998, 52, 93-102.	0.8	12
64	The influence of mild traumatic brain injury on the temporal distribution of attention. <i>Experimental Brain Research</i> , 2006, 174, 361-366.	1.5	12
65	Effects of postural support on eye hand interactions across development. <i>Experimental Brain Research</i> , 2007, 180, 557-567.	1.5	11
66	Cortical frames of reference for eye-hand coordination. <i>Progress in Brain Research</i> , 2002, 140, 301-310.	1.4	9
67	The Human Frontal Oculomotor Cortical Areas Contribute Asymmetrically to Motor Planning in a Gap Saccade Task. <i>PLoS ONE</i> , 2009, 4, e7278.	2.5	8
68	A Prospective Transcranial Doppler Ultrasound-Based Evaluation of the Effects of Repetitive Subconcussive Head Trauma on Neurovascular Coupling Dynamics. <i>Clinical Journal of Sport Medicine</i> , 2020, 30, S53-S60.	1.8	8
69	Anticipatory postural adjustments as a function of response complexity in simple reaction time tasks. <i>Neuroscience Letters</i> , 2018, 684, 1-5.	2.1	8
70	Corticospinal excitability is enhanced while preparing for complex movements. <i>Experimental Brain Research</i> , 2019, 237, 829-837.	1.5	8
71	Hand position-dependent modulation of errors in vibrotactile temporal order judgments: the effects of transcranial magnetic stimulation to the human posterior parietal cortex. <i>Experimental Brain Research</i> , 2014, 232, 1689-98.	1.5	6
72	Attention Is Required to Coordinate Reaching and Postural Stability during Upper Limb Movements Generated While Standing. <i>Journal of Motor Behavior</i> , 2020, 52, 79-88.	0.9	6

#	ARTICLE	IF	CITATIONS
73	An acute bout of controlled subconcussive impacts can alter dynamic cerebral autoregulation indices: a preliminary investigation. <i>European Journal of Applied Physiology</i> , 2022, 122, 1059-1070.	2.5	6
74	The preparation and initiation of simple rhythmical patterns. <i>Human Movement Science</i> , 1991, 10, 629-651.	1.4	5
75	The contribution of the human PPC to the orienting of visuospatial attention during smooth pursuit. <i>Experimental Brain Research</i> , 2007, 179, 65-73.	1.5	5
76	Modulation of vestibular-evoked responses prior to simple and complex arm movements. <i>Experimental Brain Research</i> , 2020, 238, 869-881.	1.5	3
77	The Time Course of Motoneuronal Excitability during the Preparation of Complex Movements. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 781-790.	2.3	2
78	Expectations can modulate the frequency and timing of multiple saccades: a TMS study. <i>Experimental Brain Research</i> , 2012, 221, 51-58.	1.5	1
79	Motor Planning Influences the Perceived Timing of Vibrotactile Stimuli in an Amplitude-Dependent Manner. <i>Journal of Motor Behavior</i> , 2017, 49, 172-178.	0.9	1
80	The effect of increased cognitive processing on reactive balance control following perturbations to the upper limb. <i>Experimental Brain Research</i> , 2022, , 1.	1.5	1
81	Further evidence for, and some against, a planningâ€“control dissociation. <i>Behavioral and Brain Sciences</i> , 2004, 27, .	0.7	0