

# Michelle Ploughman

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

2,846  
citations

236925

25  
h-index

182427

51  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remyelination trial failures: Repercussions of ignoring neurorehabilitation and exercise in repair. <i>Multiple Sclerosis and Related Disorders</i> , 2022, 58, 103539.	2.0	4
2	Machine learning classification of multiple sclerosis patients based on raw data from an instrumented walkway. <i>BioMedical Engineering OnLine</i> , 2022, 21, 21.	2.7	9
3	Better cognitive function predicts maintenance of dual-task walking ability over time among people with relapsing-remitting MS.. <i>Neuropsychology</i> , 2022, 36, 520-527.	1.3	2
4	Spatiotemporal Gait Measurement With a Side-View Depth Sensor Using Human Joint Proposals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1758-1769.	6.3	12
5	Canadian Platform for Trials in Noninvasive Brain Stimulation (CanStim) Consensus Recommendations for Repetitive Transcranial Magnetic Stimulation in Upper Extremity Motor Stroke Rehabilitation Trials. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 103-116.	2.9	5
6	Prioritizing progressive MS rehabilitation research: A call from the International Progressive MS Alliance. <i>Multiple Sclerosis Journal</i> , 2021, 27, 989-1001.	3.0	13
7	Fitness Shifts the Balance of BDNF and IL-6 from Inflammation to Repair among People with Progressive Multiple Sclerosis. <i>Biomolecules</i> , 2021, 11, 504.	4.0	13
8	Probing the Brain-Body Connection Using Transcranial Magnetic Stimulation (TMS): Validating a Promising Tool to Provide Biomarkers of Neuroplasticity and Central Nervous System Function. <i>Brain Sciences</i> , 2021, 11, 384.	2.3	16
9	Association of chronic pain with comorbidities and health care utilization: a retrospective cohort study using health administrative data. <i>Pain</i> , 2021, 162, 2737-2749.	4.2	23
10	Task-Oriented Circuit Training as an Alternative to Ergometer-Type Aerobic Exercise Training after Stroke. <i>Journal of Clinical Medicine</i> , 2021, 10, 2423.	2.4	1
11	Research interrupted: The impact of the COVID-19 pandemic on multiple sclerosis research in the field of rehabilitation and quality of life. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2021, 7, 205521732110380.	1.0	4
12	Normobaric Hypoxia Exposure During Treadmill Aerobic Exercise After Stroke: A Safety and Feasibility Study. <i>Frontiers in Physiology</i> , 2021, 12, 702439.	2.8	2
13	Psychological resilience explains functional variability across people with multiple sclerosis - No. <i>Multiple Sclerosis Journal</i> , 2021, 27, 504-506.	3.0	4
14	Sex-specific disruption in corticospinal excitability and hemispheric (a)symmetry in multiple sclerosis. <i>Brain Research</i> , 2021, 1773, 147687.	2.2	7
15	Octogenarians with Multiple Sclerosis: Lessons for Aging in Place. <i>Canadian Journal on Aging</i> , 2020, 39, 107-116.	1.1	4
16	Factors Associated With Prolonged Length of Stay and Failed Lower Limb Prosthetic Fitting During Inpatient Rehabilitation. <i>Archives of Rehabilitation Research and Clinical Translation</i> , 2020, 2, 100084.	0.9	4
17	Identifying cases of chronic pain using health administrative data: A validation study. <i>Canadian Journal of Pain</i> , 2020, 4, 252-267.	1.7	6
18	Bipedal hopping as a new measure to detect subtle sensorimotor impairment in people with multiple sclerosis. <i>Disability and Rehabilitation</i> , 2020, , 1-12.	1.8	3

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19	The impact of resilience on healthy aging with multiple sclerosis. <i>Quality of Life Research</i> , 2020, 29, 2769-2779.	3.1	26
20	Gaps in Medicare and the Social Safety Net Predict Financial Strain Among Older Canadians With Multiple Sclerosis. <i>Journal of Disability Policy Studies</i> , 2020, 31, 77-86.	1.5	2
21	Exercise-Induced Brain Excitability Changes in Progressive Multiple Sclerosis: A Pilot Study. <i>Journal of Neurologic Physical Therapy</i> , 2020, 44, 132-144.	1.4	15
22	Moving exercise research in multiple sclerosis forward (the MoXFo initiative): Developing consensus statements for research. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1303-1308.	3.0	46
23	Vigorous cool room treadmill training to improve walking ability in people with multiple sclerosis who use ambulatory assistive devices: a feasibility study. <i>BMC Neurology</i> , 2020, 20, 33.	1.8	16
24	Under-treated depression negatively impacts lifestyle behaviors, participation and health-related quality of life among older people with multiple sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2020, 40, 101919.	2.0	18
25	Walking Training Enhances Corticospinal Excitability in Progressive Multiple Sclerosis—A Pilot Study. <i>Frontiers in Neurology</i> , 2020, 11, 422.	2.4	12
26	Reliability of gait and dual-task measures in multiple sclerosis. <i>Gait and Posture</i> , 2020, 78, 19-25.	1.4	8
27	Use of Participatory Action Research in the Development of a Survey of Physiotherapy Services for People with Multiple Sclerosis in Canada. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2020, 72, 366-373.	0.6	0
28	Restoring function in progressive multiple sclerosis. <i>Lancet Neurology</i> , The, 2019, 18, 711-712.	10.2	1
29	Transcranial Magnetic Stimulation as a Potential Biomarker in Multiple Sclerosis: A Systematic Review with Recommendations for Future Research. <i>Neural Plasticity</i> , 2019, 2019, 1-22.	2.2	31
30	Oxygen Cost During Mobility Tasks and Its Relationship to Fatigue in Progressive Multiple Sclerosis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 2079-2088.	0.9	14
31	Synergistic Benefits of Combined Aerobic and Cognitive Training on Fluid Intelligence and the Role of IGF-1 in Chronic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 199-212.	2.9	45
32	Prolonged cortical silent period is related to poor fitness and fatigue, but not tumor necrosis factor, in Multiple Sclerosis. <i>Clinical Neurophysiology</i> , 2019, 130, 474-483.	1.5	27
33	Asymmetry of Brain Excitability: A New Biomarker that Predicts Objective and Subjective Symptoms in Multiple Sclerosis. <i>Behavioural Brain Research</i> , 2019, 359, 281-291.	2.2	33
34	Serum levels of insulin-like growth factor-1 and brain-derived neurotrophic factor as potential recovery biomarkers in stroke. <i>Neurological Research</i> , 2019, 41, 354-363.	1.3	20
35	High-Intensity Interval Training After Stroke: An Opportunity to Promote Functional Recovery, Cardiovascular Health, and Neuroplasticity. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 543-556.	2.9	89
36	Bipedal hopping timed to a metronome to detect impairments in anticipatory motor control in people with mild multiple sclerosis. <i>Clinical Biomechanics</i> , 2018, 55, 45-52.	1.2	4

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37	Excessive sedentary time during in-patient stroke rehabilitation. <i>Topics in Stroke Rehabilitation</i> , 2018, 25, 1-9.	1.9	46
38	Therapistsâ€™ cues influence lower limb muscle activation and kinematics during gait training in subacute stroke. <i>Disability and Rehabilitation</i> , 2018, 40, 3156-3163.	1.8	16
39	A Bout of High Intensity Interval Training Lengthened Nerve Conduction Latency to the Non-exercised Affected Limb in Chronic Stroke. <i>Frontiers in Physiology</i> , 2018, 9, 827.	2.8	16
40	Telegerontology as a Novel Approach to Address Health and Safety by Supporting Community-Based Rural Dementia Care Triads: Randomized Controlled Trial Protocol. <i>JMIR Research Protocols</i> , 2018, 7, e56.	1.0	9
41	Bipedal Hopping Reveals Evidence of Advanced Neuromuscular Aging Among People With Mild Multiple Sclerosis. <i>Journal of Motor Behavior</i> , 2017, 49, 505-513.	0.9	5
42	Breaking down the barriers to physical activity among people with multiple sclerosis â€“ a narrative review. <i>Physical Therapy Reviews</i> , 2017, 22, 124-132.	0.8	28
43	Factors Associated with Poor Sleep in Older Adults with Multiple Sclerosis. <i>International Journal of Behavioral Medicine</i> , 2017, 24, 937-945.	1.7	16
44	A new era of multiple sclerosis rehabilitation: lessons from stroke. <i>Lancet Neurology</i> , The, 2017, 16, 768-769.	10.2	17
45	Environmental temperature and exercise modality independently impact central and muscle fatigue among people with multiple sclerosis. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2017, 3, 205521731774762.	1.0	6
46	Intensifying Functional Task Practice to Meet Aerobic Training Guidelines in Stroke Survivors. <i>Frontiers in Physiology</i> , 2017, 8, 809.	2.8	18
47	The Effects of Aerobic Exercise on the Recovery of Walking Ability and Neuroplasticity in People with Multiple Sclerosis: A Systematic Review of Animal and Clinical Studies. <i>Multiple Sclerosis International</i> , 2017, 2017, 1-12.	0.8	18
48	Women's and Men's Differing Experiences of Health, Lifestyle, and Aging with Multiple Sclerosis. <i>International Journal of MS Care</i> , 2017, 19, 165-171.	1.0	13
49	Healthy Aging from the Perspectives of 683 Older People with Multiple Sclerosis. <i>Multiple Sclerosis International</i> , 2016, 2016, 1-10.	0.8	15
50	Defining Optimal Aerobic Exercise Parameters to Affect Complex Motor and Cognitive Outcomes after Stroke: A Systematic Review and Synthesis. <i>Neural Plasticity</i> , 2016, 2016, 1-12.	2.2	42
51	Walking impairs cognitive performance among people with multiple sclerosis but not controls. <i>Human Movement Science</i> , 2016, 49, 124-131.	1.4	28
52	Four birds with one stone? Reparative, neuroplastic, cardiorespiratory, and metabolic benefits of aerobic exercise poststroke. <i>Current Opinion in Neurology</i> , 2016, 29, 684-692.	3.6	59
53	Efficacy and safety of non-immersive virtual reality exercising in stroke rehabilitation (EVREST): a randomised, multicentre, single-blind, controlled trial. <i>Lancet Neurology</i> , The, 2016, 15, 1019-1027.	10.2	279
54	Comparing Three Dual-Task Methods and the Relationship to Physical and Cognitive Impairment in People with Multiple Sclerosis and Controls. <i>Multiple Sclerosis International</i> , 2015, 2015, 1-7.	0.8	25

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55	Over-the-counter anti-oxidant therapies for use in multiple sclerosis: A systematic review. <i>Multiple Sclerosis Journal</i> , 2015, 21, 1485-1495.	3.0	33
56	The Effects of Poststroke Aerobic Exercise on Neuroplasticity: A Systematic Review of Animal and Clinical Studies. <i>Translational Stroke Research</i> , 2015, 6, 13-28.	4.2	110
57	Predictors of exercise participation in ambulatory and non-ambulatory older people with multiple sclerosis. <i>PeerJ</i> , 2015, 3, e1158.	2.0	29
58	Effectiveness of a novel community exercise transition program for people with moderate to severe neurological disabilities. <i>NeuroRehabilitation</i> , 2014, 35, 105-112.	1.3	16
59	The Canadian survey of health, lifestyle and ageing with multiple sclerosis: methodology and initial results. <i>BMJ Open</i> , 2014, 4, e005718-e005718.	1.9	34
60	Aerobic exercise effects on neuroprotection and brain repair following stroke: A systematic review and perspective. <i>Neuroscience Research</i> , 2014, 87, 8-15.	1.9	119
61	Community-Based Stroke Rehabilitation: Recovery continued?. <i>Canadian Journal of Neurological Sciences</i> , 2014, 41, 679-680.	0.5	4
62	Drawing on Related Knowledge to Advance Multiple Sclerosis Falls-Prevention Research. <i>International Journal of MS Care</i> , 2014, 16, 163-170.	1.0	12
63	The Path to Self-Management: A Qualitative Study Involving Older People with Multiple Sclerosis. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2012, 64, 6-17.	0.6	48
64	Factors influencing healthy aging with multiple sclerosis: a qualitative study. <i>Disability and Rehabilitation</i> , 2012, 34, 26-33.	1.8	63
65	Applying cognitive debriefing to pre-test patient-reported outcomes in older people with multiple sclerosis. <i>Quality of Life Research</i> , 2010, 19, 483-487.	3.1	35
66	Brain-Derived Neurotrophic Factor Contributes to Recovery of Skilled Reaching After Focal Ischemia in Rats. <i>Stroke</i> , 2009, 40, 1490-1495.	2.0	319
67	Exercise is brain food: The effects of physical activity on cognitive function. <i>Developmental Neurorehabilitation</i> , 2008, 11, 236-240.	1.1	244
68	Does Treadmill Exercise Improve Performance of Cognitive or Upper-Extremity Tasks in People With Chronic Stroke? A Randomized Cross-Over Trial. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 2041-2047.	0.9	82
69	Constraint-Induced Movement Therapy for Severe Upper-Extremity Impairment after Stroke in an Outpatient Rehabilitation Setting: A Case Report. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2008, 60, 161-170.	0.6	6
70	Endurance exercise facilitates relearning of forelimb motor skill after focal ischemia. <i>European Journal of Neuroscience</i> , 2007, 25, 3453-3460.	2.6	96
71	Exercise intensity influences the temporal profile of growth factors involved in neuronal plasticity following focal ischemia. <i>Brain Research</i> , 2007, 1150, 207-216.	2.2	148
72	Endurance exercise regimens induce differential effects on brain-derived neurotrophic factor, synapsin-I and insulin-like growth factor I after focal ischemia. <i>Neuroscience</i> , 2005, 136, 991-1001.	2.3	155

#	ARTICLE	IF	CITATIONS
73	Can forced-use therapy be clinically applied after stroke? an exploratory randomized controlled trial11No 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.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1417-1423.	0.9	98