

Martin Simoneau

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,292
citations

185998

28
h-index

155451

55
g-index

100
all docs

100
docs citations

100
times ranked

3149
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Spinal Cord Stimulation vs. Dorsal Root Ganglion Stimulation vs. Association of Both in Patients with Refractory Chronic Back and/or Lower Limb Neuropathic Pain: An International, Prospective, Randomized, Double-Blinded, Crossover Trial (BOOST-DRG Study). <i>Medicina (Lithuania)</i> , 2022, 58, 7.	0.8	5
2	On the Dynamics of Spatial Updating. <i>Frontiers in Neuroscience</i> , 2022, 16, 780027.	1.4	1
3	Hypnosis to manage musculoskeletal and neuropathic chronic pain: A systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 135, 104591.	2.9	24
4	Adolescents with idiopathic scoliosis show decreased intermuscular coherence in lumbar paraspinal muscles: A new pathophysiological perspective. <i>Clinical Neurophysiology</i> , 2022, 138, 38-51.	0.7	0
5	The influence of experimental low back pain on neural networks involved in the control of lumbar erector spinae muscles. <i>Journal of Neurophysiology</i> , 2022, 127, 1593-1605.	0.9	4
6	A Comprehensive Review of Pain Interference on Postural Control: From Experimental to Chronic Pain. <i>Medicina (Lithuania)</i> , 2022, 58, 812.	0.8	7
7	Motor Responses of Lumbar Erector Spinae Induced by Electrical Vestibular Stimulation in Seated Participants. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 690433.	1.0	4
8	Large Postural Sways Prevent Foot Tactile Information From Fading: Neurophysiological Evidence. <i>Cerebral Cortex Communications</i> , 2021, 2, tgaa094.	0.7	9
9	Postural instability in Parkinson's disease: Review and bottom-up rehabilitative approaches. <i>Neurophysiologie Clinique</i> , 2020, 50, 479-487.	1.0	16
10	Double-Step Paradigm in Microgravity: Preservation of Sensorimotor Flexibility in Altered Gravitational Force Field. <i>Frontiers in Physiology</i> , 2020, 11, 377.	1.3	7
11	Increased EEG alpha peak frequency in adolescents with idiopathic scoliosis during balance control in normal upright standing. <i>Neuroscience Letters</i> , 2020, 722, 134836.	1.0	6
12	Learning to use vestibular sense for spatial updating is context dependent. <i>Scientific Reports</i> , 2019, 9, 11154.	1.6	6
13	Cortical dynamics of sensorimotor information processing associated with balance control in adolescents with and without idiopathic scoliosis. <i>Clinical Neurophysiology</i> , 2019, 130, 1752-1761.	0.7	12
14	Supplementary Motor Area and Superior Parietal Lobule Restore Sensory Facilitation Prior to Stepping When a Decrease of Afferent Inputs Occurs. <i>Frontiers in Neurology</i> , 2019, 9, 1132.	1.1	6
15	Two Neural Circuits to Point Towards Home Position After Passive Body Displacements. <i>Frontiers in Neural Circuits</i> , 2019, 13, 70.	1.4	3
16	Balance control mechanisms do not benefit from successive stimulation of different sensory systems. <i>PLoS ONE</i> , 2019, 14, e0226216.	1.1	5
17	Balance control mechanisms do not benefit from successive stimulation of different sensory systems. , 2019, 14, e0226216.		0
18	Balance control mechanisms do not benefit from successive stimulation of different sensory systems. , 2019, 14, e0226216.		0

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19	Balance control mechanisms do not benefit from successive stimulation of different sensory systems. , 2019, 14, e0226216.		0
20	Balance control mechanisms do not benefit from successive stimulation of different sensory systems. , 2019, 14, e0226216.		0
21	Change in the natural head-neck orientation momentarily altered sensorimotor control during sensory transition. <i>Gait and Posture</i> , 2017, 53, 80-85.	0.6	2
22	A procedure to detect abnormal sensorimotor control in adolescents with idiopathic scoliosis. <i>Gait and Posture</i> , 2017, 57, 124-129.	0.6	7
23	Neural Consequences of Increasing Body Weight: Evidence from Somatosensory Evoked Potentials and the Frequency-Specificity of Brain Oscillations. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 318.	1.0	18
24	Older Adults with Mild Cognitive Impairments Show Less Driving Errors after a Multiple Sessions Simulator Training Program but Do Not Exhibit Long Term Retention. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 653.	1.0	13
25	Sensorimotor Control Impairment in Young Adults With Idiopathic Scoliosis Compared With Healthy Controls. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2016, 39, 473-479.	0.4	20
26	Drivers with Amnesic Mild Cognitive Impairment Can Benefit from a Multiple-Session Driving Simulator Automated Training Program. <i>Journal of the American Geriatrics Society</i> , 2016, 64, e16-8.	1.3	6
27	Reduced plantar sole sensitivity facilitates early adaptation to a visual rotation pointing task when standing upright. <i>Journal of Human Kinetics</i> , 2016, 52, 65-74.	0.7	2
28	Assessment of sensorimotor control in adults with surgical correction for idiopathic scoliosis. <i>European Spine Journal</i> , 2016, 25, 3347-3352.	1.0	6
29	Sensory Integration during Vibration of Postural Muscle Tendons When Pointing to a Memorized Target. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 682.	1.0	3
30	Facilitation of cutaneous inputs during the planning phase of gait initiation. <i>Journal of Neurophysiology</i> , 2015, 114, 301-308.	0.9	26
31	Prediction in the Vestibular Control of Arm Movements. <i>Multisensory Research</i> , 2015, 28, 487-505.	0.6	18
32	Improving spatial updating accuracy in absence of external feedback. <i>Neuroscience</i> , 2015, 300, 155-162.	1.1	5
33	Sensory reweighting is altered in adolescent patients with scoliosis: Evidence from a neuromechanical model. <i>Gait and Posture</i> , 2015, 42, 558-563.	0.6	20
34	Balance control impairment in obese individuals is caused by larger balance motor commands variability. <i>Gait and Posture</i> , 2015, 41, 203-208.	0.6	45
35	Reduced plantar sole sensitivity induces balance control modifications to compensate ankle tendon vibration and vision deprivation. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 155-160.	0.7	26
36	The Vestibular-Evoked Postural Response of Adolescents with Idiopathic Scoliosis Is Altered. <i>PLoS ONE</i> , 2015, 10, e0143124.	1.1	30

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37	Quantifying forearm and wrist joint power during unconstrained movements in healthy individuals. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 157.	2.4	5
38	Postural dependence of human locomotion during gait initiation. <i>Journal of Neurophysiology</i> , 2014, 112, 3095-3103.	0.9	33
39	Generalization of vestibular learning to earth-fixed targets is possible but limited when the polarity of afferent vestibular information is changed. <i>Neuroscience</i> , 2014, 260, 12-22.	1.1	5
40	Balance control interferes with the tracing performance of a pattern with mirror-reversed vision in older persons. <i>Age</i> , 2014, 36, 823-837.	3.0	8
41	Estimate of body motion during voluntary body sway movements. <i>Gait and Posture</i> , 2014, 39, 70-74.	0.6	1
42	Attitude naturalistique de la négociation des intersections et du respect des limites de vitesse chez les conducteurs âgés de 65 ans et plus. <i>Recherche - Transports - Sécurité</i> , 2014, 2014, 271-281.	0.1	3
43	Effect of bracing or surgical treatments on balance control in idiopathic scoliosis: three case studies. <i>Journal of the Canadian Chiropractic Association</i> , 2014, 58, 131-40.	0.2	4
44	Effects of underestimating the kinematics of trunk rotation on simultaneous reaching movements: predictions of a biomechanical model. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 54.	2.4	6
45	Obesity Alters Balance and Movement Control. <i>Current Obesity Reports</i> , 2013, 2, 235-240.	3.5	49
46	The impact of obesity on balance control in community-dwelling older women. <i>Age</i> , 2013, 35, 883-890.	3.0	97
47	A computer vision framework for the analysis and interpretation of the cephalo-ocular behavior of drivers. <i>Machine Vision and Applications</i> , 2013, 24, 159-173.	1.7	2
48	Short term alteration of balance control after a reduction of plantar mechanoreceptor sensation through cooling. <i>Neuroscience Letters</i> , 2013, 535, 40-44.	1.0	46
49	Is abnormal vestibulomotor responses related to idiopathic scoliosis onset or severity?. <i>Medical Hypotheses</i> , 2013, 80, 234-236.	0.8	9
50	Lower-Limb Power cannot be Estimated Accurately from Vertical Jump Tests. <i>Journal of Human Kinetics</i> , 2013, 38, 5-13.	0.7	9
51	THE EFFECTS OF ADDED MASS ON PLANTAR SOLE SENSITIVITY IN UPRIGHT STANDING. <i>Journal of Biomechanics</i> , 2012, 45, S233.	0.9	8
52	The effects of muscle strength on center of pressure-based measures of postural sway in obese and heavy athletic individuals. <i>Gait and Posture</i> , 2012, 35, 88-91.	0.6	42
53	Online control of anticipated postural adjustments in step initiation: Evidence from behavioral and computational approaches. <i>Gait and Posture</i> , 2012, 35, 616-620.	0.6	30
54	Sensorimotor Integration in Adolescent Idiopathic Scoliosis Patients. , 2012, , .		1

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55	Influence of risperidone on balance control in young healthy individuals. <i>Psychopharmacology</i> , 2012, 222, 59-69.	1.5	5
56	Active training and driving-specific feedback improve older drivers' visual search prior to lane changes. <i>BMC Geriatrics</i> , 2012, 12, 5.	1.1	31
57	Visuo-vestibular interaction: predicting the position of a visual target during passive body rotation. <i>Neuroscience</i> , 2011, 195, 45-53.	1.1	8
58	Prediction of the body rotation-induced torques on the arm during reaching movements: Evidence from a proprioceptively deafferented subject. <i>Neuropsychologia</i> , 2011, 49, 2055-2059.	0.7	25
59	Changing Lanes in a Simulator: Effects of Aging on the Control of the Vehicle and Visual Inspection of Mirrors and Blind Spot. <i>Traffic Injury Prevention</i> , 2011, 12, 191-200.	0.6	24
60	In-simulator training of driving abilities in a person with a traumatic brain injury. <i>Brain Injury</i> , 2011, 25, 416-425.	0.6	12
61	Kinetic strategies of patients with shoulder impingement syndrome. <i>Journal of Orthopaedic Research</i> , 2010, 28, 6-11.	1.2	4
62	Relationship Between Oscillations About the Vertical Axis and Center of Pressure Displacements in Single and Double Leg Upright Stance. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2010, 89, 809-816.	0.7	15
63	Insights into the control of arm movement during body motion as revealed by EMG analyses. <i>Brain Research</i> , 2010, 1309, 40-52.	1.1	13
64	Balance control is altered in obese individuals. <i>Journal of Biomechanics</i> , 2010, 43, 383-384.	0.9	24
65	Weight loss and muscular strength affect static balance control. <i>International Journal of Obesity</i> , 2010, 34, 936-942.	1.6	77
66	Alternative Avenues in the Assessment of Driving Capacities in Older Drivers and Implications for Training. <i>Current Directions in Psychological Science</i> , 2010, 19, 370-374.	2.8	15
67	Evidence for cognitive vestibular integration impairment in idiopathic scoliosis patients. <i>BMC Neuroscience</i> , 2009, 10, 102.	0.8	54
68	Postural imbalance in non-treated adolescent idiopathic scoliosis at different periods of progression. <i>European Spine Journal</i> , 2009, 18, 38-44.	1.0	73
69	Mental workload when driving in a simulator: Effects of age and driving complexity. <i>Accident Analysis and Prevention</i> , 2009, 41, 763-771.	3.0	205
70	Aging reduces the ability to change grip force and balance control simultaneously. <i>Neuroscience Letters</i> , 2009, 452, 23-27.	1.0	9
71	Multiple-Session Simulator Training for Older Drivers and On-Road Transfer of Learning. , 2009, , .		3
72	Muscle Force and Force Control After Weight Loss in Obese and Morbidly Obese Men. <i>Obesity Surgery</i> , 2008, 18, 1112-1118.	1.1	52

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73	Role of loading on head stability and effective neck stiffness and viscosity. <i>Journal of Biomechanics</i> , 2008, 41, 2097-2103.	0.9	42
74	Plasma concentration of organochlorine compounds is associated with age and not obesity. <i>Chemosphere</i> , 2007, 67, 1463-1467.	4.2	43
75	Body weight is a strong predictor of postural stability. <i>Gait and Posture</i> , 2007, 26, 32-38.	0.6	373
76	Predictors of weight loss in Parkinson's disease: Is weight loss the chicken or the egg?. <i>Movement Disorders</i> , 2007, 22, 436-437.	2.2	13
77	Reducing weight increases postural stability in obese and morbid obese men. <i>International Journal of Obesity</i> , 2007, 31, 153-160.	1.6	167
78	Is the brain able to capture a new temporal relationship between a motor action and its consequence?. <i>Experimental Brain Research</i> , 2007, 181, 321-332.	0.7	1
79	Controlling Reaching Movements during Self-Motion: Body-Fixed versus Earth-Fixed Targets. <i>Motor Control</i> , 2006, 10, 330-347.	0.3	7
80	The effects of moderate fatigue on dynamic balance control and attentional demands. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2006, 3, 22.	2.4	52
81	Increased Plasma Levels of Toxic Pollutants Accompanying Weight Loss Induced by Hypocaloric Diet or by Bariatric Surgery. <i>Obesity Surgery</i> , 2006, 16, 1145-1154.	1.1	67
82	Coordination between posture and movement: interaction between postural and accuracy constraints. <i>Experimental Brain Research</i> , 2006, 170, 255-264.	0.7	37
83	Sensory deprivation and balance control in idiopathic scoliosis adolescent. <i>Experimental Brain Research</i> , 2006, 170, 576-582.	0.7	88
84	Altered sensory-weighting mechanisms is observed in adolescents with idiopathic scoliosis. <i>BMC Neuroscience</i> , 2006, 7, 68.	0.8	82
85	Influence of obesity on accurate and rapid arm movement performed from a standing posture. <i>International Journal of Obesity</i> , 2006, 30, 1750-1757.	1.6	95
86	The effect of time to peak ankle torque on balance stability boundary: experimental validation of a biomechanical model. <i>Experimental Brain Research</i> , 2005, 165, 217-228.	0.7	31
87	Somatotyping Morphology. <i>Critical Reviews in Physical and Rehabilitation Medicine</i> , 2005, 17, 317-330.	0.1	0
88	Effects of predictive mechanisms on head stability during forward trunk perturbation. <i>Experimental Brain Research</i> , 2003, 148, 338-349.	0.7	8
89	Attenuation of human neck muscle activity following repeated imposed trunk-forward linear acceleration. <i>Experimental Brain Research</i> , 2003, 150, 458-464.	0.7	78
90	Self-initiating a seated perturbation modifies the neck postural responses in humans. <i>Neuroscience Letters</i> , 2003, 347, 1-4.	1.0	19

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91	Attentional demands for postural control: the effects of aging and sensory reintegration. <i>Gait and Posture</i> , 2001, 14, 203-210.	0.6	288
92	Increased risk for falling associated with obesity: mathematical modeling of postural control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2001, 9, 126-136.	2.7	275
93	Pointing to a target from an upright position in human: tuning of postural responses when there is target uncertainty. <i>Neuroscience Letters</i> , 2000, 281, 53-56.	1.0	17
94	Role of the feedforward command and reafferent information in the coordination of a passing prehension task. <i>Experimental Brain Research</i> , 1999, 128, 236-242.	0.7	22
95	Aging and Postural Control: Postural Perturbations Caused by Changing the Visual Anchor. <i>Journal of the American Geriatrics Society</i> , 1999, 47, 235-240.	1.3	77
96	Updating visual space during passive and voluntary head-in-space movements. <i>Experimental Brain Research</i> , 1998, 122, 93-100.	0.7	41