

# Jean-SÃ©bastien Blouin

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,422  
citations

331670

21  
h-index

377865

34  
g-index

60  
all docs

60  
docs citations

60  
times ranked

924  
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency response of human vestibular reflexes characterized by stochastic stimuli. <i>Journal of Physiology</i> , 2007, 583, 1117-1127.	2.9	96
2	Sensorimotor control of standing balance. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 159, 61-83.	1.8	80
3	Neural substrates, dynamics and thresholds of galvanic vestibular stimulation in the behaving primate. <i>Nature Communications</i> , 2019, 10, 1904.	12.8	76
4	Frequency-Specific Modulation of Vestibular-Evoked Sway Responses in Humans. <i>Journal of Neurophysiology</i> , 2010, 103, 1048-1056.	1.8	73
5	Task, muscle and frequency dependent vestibular control of posture. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 94.	2.1	70
6	Human standing is modified by an unconscious integration of congruent sensory and motor signals. <i>Journal of Physiology</i> , 2012, 590, 5783-5794.	2.9	55
7	Modulation of human vestibular reflexes with increased postural threat. <i>Journal of Physiology</i> , 2014, 592, 3671-3685.	2.9	55
8	Transformation of Vestibular Signals for the Control of Standing in Humans. <i>Journal of Neuroscience</i> , 2016, 36, 11510-11520.	3.6	52
9	Sensorimotor Manipulations of the Balance Control Loopâ€œBeyond Imposed External Perturbations. <i>Frontiers in Neurology</i> , 2018, 9, 899.	2.4	46
10	Frequency response of vestibular reflexes in neck, back, and lower limb muscles. <i>Journal of Neurophysiology</i> , 2013, 110, 1869-1881.	1.8	44
11	Exerciseâ€œinduced quadriceps muscle fatigue in men and women: effects of arterial oxygen content and respiratory muscle work. <i>Journal of Physiology</i> , 2017, 595, 5227-5244.	2.9	44
12	Extracting phase-dependent human vestibular reflexes during locomotion using both time and frequency correlation approaches. <i>Journal of Applied Physiology</i> , 2011, 111, 1484-1490.	2.5	39
13	Gain and phase of perceived virtual rotation evoked by electrical vestibular stimuli. <i>Journal of Neurophysiology</i> , 2015, 114, 264-273.	1.8	36
14	Rapid limbâ€œspecific modulation of vestibular contributions to ankle muscle activity during locomotion. <i>Journal of Physiology</i> , 2017, 595, 2175-2195.	2.9	34
15	The altered vestibular-evoked myogenic and whole-body postural responses in old men during standing. <i>Experimental Gerontology</i> , 2014, 60, 120-128.	2.8	33
16	Short-duration galvanic vestibular stimulation evokes prolonged balance responses. <i>Journal of Applied Physiology</i> , 2008, 105, 1210-1217.	2.5	30
17	Rectification is required to extract oscillatory envelope modulation from surface electromyographic signals. <i>Journal of Neurophysiology</i> , 2014, 112, 1685-1691.	1.8	30
18	Postural threat influences vestibular-evoked muscular responses. <i>Journal of Neurophysiology</i> , 2017, 117, 604-611.	1.8	29

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19	Increased human stretch reflex dynamic sensitivity with heightâ€­induced postural threat. <i>Journal of Physiology</i> , 2018, 596, 5251-5265.	2.9	29
20	Older adults demonstrate superior vestibular perception for virtual rotations. <i>Experimental Gerontology</i> , 2016, 82, 50-57.	2.8	27
21	Validation of a Robotic Balance System for Investigations in the Control of Human Standing Balance. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2011, 19, 382-390.	4.9	23
22	Vestibular contribution to balance control in the medial gastrocnemius and soleus. <i>Journal of Neurophysiology</i> , 2016, 115, 1289-1297.	1.8	23
23	Precise coding of ankle angle and velocity by human calf muscle spindles. <i>Neuroscience</i> , 2017, 349, 98-105.	2.3	22
24	Virtual signals of head rotation induce gravityâ€­dependent inferences of linear acceleration. <i>Journal of Physiology</i> , 2019, 597, 5231-5246.	2.9	22
25	Motor units in the human medial gastrocnemius muscle are not spatially localized or functionally grouped. <i>Journal of Physiology</i> , 2015, 593, 3711-3726.	2.9	21
26	Cross-Modal Calibration of Vestibular Afference for Human Balance. <i>PLoS ONE</i> , 2015, 10, e0124532.	2.5	21
27	The internal representation of head orientation differs for conscious perception and balance control. <i>Journal of Physiology</i> , 2017, 595, 2731-2749.	2.9	20
28	Vestibulocollic reflexes in the absence of head postural control. <i>Journal of Neurophysiology</i> , 2014, 112, 1692-1702.	1.8	19
29	Down regulation of vestibular balance stabilizing mechanisms to enable transition between motor states. <i>ELife</i> , 2018, 7, .	6.0	19
30	Neural Mechanisms Underlying High-Frequency Vestibulocollic Reflexes In Humans And Monkeys. <i>Journal of Neuroscience</i> , 2020, 40, 1874-1887.	3.6	18
31	Frequency characteristics of human muscle and cortical responses evoked by noisy Achilles tendon vibration. <i>Journal of Applied Physiology</i> , 2017, 122, 1134-1144.	2.5	17
32	Both standing and postural threat decrease Achillesâ€™ tendon reflex inhibition from tendon electrical stimulation. <i>Journal of Physiology</i> , 2017, 595, 4493-4506.	2.9	17
33	Electrical Vestibular Stimuli Evoke Robust Muscle Activity in Deep and Superficial Neck Muscles in Humans. <i>Frontiers in Neurology</i> , 2018, 9, 535.	2.4	16
34	Electrical Vestibular Stimuli to Enhance Vestibulo-Motor Output and Improve Subject Comfort. <i>PLoS ONE</i> , 2014, 9, e84385.	2.5	16
35	Soleus single motor units show stronger coherence with Achilles tendon vibration across a broad bandwidth relative to medial gastrocnemius units while standing. <i>Journal of Neurophysiology</i> , 2019, 122, 2119-2129.	1.8	15
36	Loud preimpact tones reduce the cervical multifidus muscle response during rear-end collisions: a potential method for reducing whiplash injuries. <i>Spine Journal</i> , 2015, 15, 153-161.	1.3	14

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37	An intensity matched comparison of laser- and contact heat evoked potentials. <i>Scientific Reports</i> , 2021, 11, 6861.	3.3	14
38	Regionalization of the stretch reflex in the human vastus medialis. <i>Journal of Physiology</i> , 2017, 595, 4991-5001.	2.9	13
39	Learning to stand with unexpected sensorimotor delays. <i>ELife</i> , 2021, 10, .	6.0	12
40	Neck muscle biomechanics and neural control. <i>Journal of Neurophysiology</i> , 2018, 120, 361-371.	1.8	11
41	Regional activation in the human longissimus thoracis pars lumborum muscle. <i>Journal of Physiology</i> , 2020, 598, 347-359.	2.9	11
42	Influence of age on the frequency characteristics of the soleus muscle response to Achilles tendon vibration during standing. <i>Journal of Physiology</i> , 2020, 598, 5231-5243.	2.9	11
43	Experimental Performance Evaluation of Human Balance Control Models. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 1115-1127.	4.9	8
44	CrossTalk proposal: Fear of falling does influence vestibularâ€evoked balance responses. <i>Journal of Physiology</i> , 2015, 593, 2979-2981.	2.9	7
45	Head postures during naturalistic driving. <i>Traffic Injury Prevention</i> , 2018, 19, 637-643.	1.4	7
46	Asymmetric Unilateral Vestibular Perception in Adolescents With Idiopathic Scoliosis. <i>Frontiers in Neurology</i> , 2019, 10, 1270.	2.4	6
47	A taskâ€relevant experimental pain model to target motor adaptation. <i>Journal of Physiology</i> , 2021, 599, 2401-2417.	2.9	6
48	The neutral posture of the cervical spine is not unique in human subjects. <i>Journal of Biomechanics</i> , 2018, 80, 53-62.	2.1	5
49	Frequency characteristics of heteronymous responses evoked by Achilles tendon vibration during quiet stance. <i>Neuroscience Letters</i> , 2020, 736, 135290.	2.1	5
50	Using Variance to Explore the Diagnostic Utility of Baseline Concussion Testing. <i>Journal of Neurotrauma</i> , 2020, 37, 1521-1527.	3.4	5
51	Whiplash evokes descending muscle recruitment and sympathetic responses characteristic of startle. <i>Journal of the Canadian Chiropractic Association</i> , 2014, 58, 109-18.	0.2	5
52	Lowerâ€limb muscle responses evoked with noisy vibrotactile foot sole stimulation. <i>Physiological Reports</i> , 2020, 8, e14530.	1.7	4
53	Neck Muscle and Head/Neck Kinematic Responses While Bracing Against the Steering Wheel During Front and Rear Impacts. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1069-1082.	2.5	3
54	Soleus responses to Achilles tendon stimuli are suppressed by heel and enhanced by metatarsal cutaneous stimuli during standing. <i>Journal of Physiology</i> , 2021, 599, 3611-3625.	2.9	3

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55	A comparison of anti-whiplash seats during low/moderate speed rear-end collisions. Traffic Injury Prevention, 2020, 21, 195-200.	1.4	2
56	Rebuttal from Brian C. Horslen, Christopher J. Dakin, J. Timothy Inglis, Jean-SÃ©bastien Blouin and Mark G. Carpenter. Journal of Physiology, 2015, 593, 2985-2985.	2.9	1
57	Context-dependent use of muscle spindles for human position sense. Journal of Physiology, 2016, 594, 801-802.	2.9	1
58	Trunk muscle recruitment patterns in simulated precrash events. Traffic Injury Prevention, 2018, 19, S186-S188.	1.4	0