

Stéphane Baudry

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,314
citations

218381

26
h-index

223531

46
g-index

59
all docs

59
docs citations

59
times ranked

2356
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-related decline in rate of torque development is accompanied by lower maximal motor unit discharge frequency during fast contractions. <i>Journal of Applied Physiology</i> , 2008, 104, 739-746.	1.2	254
2	Ageing causes a reorganization of cortical and spinal control of posture. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 28.	1.7	145
3	Age-related fatigability of the ankle dorsiflexor muscles during concentric and eccentric contractions. <i>European Journal of Applied Physiology</i> , 2007, 100, 515-525.	1.2	126
4	Age-related changes in leg proprioception: implications for postural control. <i>Journal of Neurophysiology</i> , 2019, 122, 525-538.	0.9	124
5	Application of ultrasound for muscle assessment in sarcopenia: 2020 SARCUS update. <i>European Geriatric Medicine</i> , 2021, 12, 45-59.	1.2	123
6	Application of ultrasound for muscle assessment in sarcopenia: towards standardized measurements. <i>European Geriatric Medicine</i> , 2018, 9, 739-757.	1.2	122
7	Postactivation potentiation in a human muscle: effect on the rate of torque development of tetanic and voluntary isometric contractions. <i>Journal of Applied Physiology</i> , 2007, 102, 1394-1401.	1.2	99
8	Insights into the neural control of eccentric contractions. <i>Journal of Applied Physiology</i> , 2014, 116, 1418-1425.	1.2	95
9	Ageing does not affect voluntary activation of the ankle dorsiflexors during isometric, concentric, and eccentric contractions. <i>Journal of Applied Physiology</i> , 2005, 99, 31-38.	1.2	93
10	Age-related influence of vision and proprioception on Ia presynaptic inhibition in soleus muscle during upright stance. <i>Journal of Physiology</i> , 2012, 590, 5541-5554.	1.3	76
11	Presynaptic Modulation of Ia Afferents in Young and Old Adults When Performing Force and Position Control. <i>Journal of Neurophysiology</i> , 2010, 103, 623-631.	0.9	75
12	Maximal discharge rate of motor units determines the maximal rate of force development during ballistic contractions in human. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 234.	1.0	73
13	Postactivation potentiation in human muscle is not related to the type of maximal conditioning contraction. <i>Muscle and Nerve</i> , 2004, 30, 328-336.	1.0	66
14	Age-related decrease in motor cortical inhibition during standing under different sensory conditions. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 126.	1.7	52
15	Influence of age and posture on spinal and corticospinal excitability. <i>Experimental Gerontology</i> , 2015, 69, 62-69.	1.2	49
16	Effects of short-term training combining strength and balance exercises on maximal strength and upright standing steadiness in elderly adults. <i>Experimental Gerontology</i> , 2015, 61, 38-46.	1.2	47
17	Age-related changes in the behavior of the muscle-tendon unit of the gastrocnemius medialis during upright stance. <i>Journal of Applied Physiology</i> , 2012, 112, 296-304.	1.2	46
18	Ageing Changes the Contribution of Spinal and Corticospinal Pathways to Control Balance. <i>Exercise and Sport Sciences Reviews</i> , 2016, 44, 104-109.	1.6	43

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19	Load Type Influences Motor Unit Recruitment in Biceps Brachii During a Sustained Contraction. <i>Journal of Neurophysiology</i> , 2009, 102, 1725-1735.	0.9	42
20	Active vision task and postural control in healthy, young adults: Synergy and probably not duality. <i>Gait and Posture</i> , 2016, 48, 57-63.	0.6	38
21	Task- and time-dependent modulation of Ia presynaptic inhibition during fatiguing contractions performed by humans. <i>Journal of Neurophysiology</i> , 2011, 106, 265-273.	0.9	37
22	The neural control of coactivation during fatiguing contractions revisited. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 780-788.	0.7	37
23	Vibration-induced depression in spinal loop excitability revisited. <i>Journal of Physiology</i> , 2019, 597, 5179-5193.	1.3	34
24	A functional synergistic model to explain postural control during precise visual tasks. <i>Gait and Posture</i> , 2016, 50, 120-125.	0.6	29
25	Postural challenge affects motor cortical activity in young and old adults. <i>Experimental Gerontology</i> , 2016, 73, 78-85.	1.2	29
26	Influence of load type on presynaptic modulation of Ia afferent input onto two synergist muscles. <i>Experimental Brain Research</i> , 2009, 199, 83-88.	0.7	27
27	Intracortical inhibition in the soleus muscle is reduced during the control of upright standing in both young and old adults. <i>European Journal of Applied Physiology</i> , 2016, 116, 959-967.	1.2	25
28	Functional Synergy Between Postural and Visual Behaviors When Performing a Difficult Precise Visual Task in Upright Stance. <i>Cognitive Science</i> , 2017, 41, 1675-1693.	0.8	25
29	Heteronymous reflex responses in a hand muscle when maintaining constant finger force or position at different contraction intensities. <i>Clinical Neurophysiology</i> , 2009, 120, 210-217.	0.7	23
30	M-wave potentiation after voluntary contractions of different durations and intensities in the tibialis anterior. <i>Journal of Applied Physiology</i> , 2015, 118, 953-964.	1.2	22
31	Postactivation potentiation of short tetanic contractions is differently influenced by stimulation frequency in young and elderly adults. <i>European Journal of Applied Physiology</i> , 2008, 103, 449-459.	1.2	20
32	Comparison of Plyometric Training With Two Different Jumping Techniques on Achilles Tendon Properties and Jump Performances. <i>Journal of Strength and Conditioning Research</i> , 2020, 34, 1503-1510.	1.0	18
33	Fatigue-induced adjustment in antagonist coactivation by old adults during a steadiness task. <i>Journal of Applied Physiology</i> , 2016, 120, 1039-1046.	1.2	14
34	Leucine-enriched protein supplementation does not influence neuromuscular adaptations in response to a 6-month strength training programme in older adults. <i>Experimental Gerontology</i> , 2016, 82, 58-66.	1.2	14
35	Efficacy of a new strength training design: the 3/7 method. <i>European Journal of Applied Physiology</i> , 2019, 119, 1093-1104.	1.2	14
36	Effects of load magnitude on muscular activity and tissue oxygenation during repeated elbow flexions until failure. <i>European Journal of Applied Physiology</i> , 2013, 113, 1895-1904.	1.2	13

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37	Influence of working memory and executive function on stair ascent and descent in young and older adults. <i>Experimental Gerontology</i> , 2018, 106, 74-79.	1.2	13
38	Relations between Eye Movement, Postural Sway and Cognitive Involvement in Unprecise and Precise Visual Tasks. <i>Neuroscience</i> , 2019, 416, 177-189.	1.1	13
39	The SARCLUS project: evidence-based muscle assessment through ultrasound. <i>European Geriatric Medicine</i> , 2019, 10, 157-158.	1.2	13
40	Effects of Short-Term Dexamethasone Administration on Corticospinal Excitability. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 695-701.	0.2	12
41	Comparison of muscle activity and tissue oxygenation during strength training protocols that differ by their organisation, rest interval between sets, and volume. <i>European Journal of Applied Physiology</i> , 2016, 116, 1795-1806.	1.2	12
42	Young, Healthy Subjects Can Reduce the Activity of Calf Muscles When Provided with EMG Biofeedback in Upright Stance. <i>Frontiers in Physiology</i> , 2016, 7, 158.	1.3	10
43	Anodal transcranial direct current stimulation does not influence the neural adjustments associated with fatiguing contractions in a hand muscle. <i>European Journal of Applied Physiology</i> , 2019, 119, 597-609.	1.2	10
44	Cognitive demand does not influence the responsiveness of homonymous Ia afferents pathway during postural dual task in young and elderly adults. <i>European Journal of Applied Physiology</i> , 2014, 114, 295-303.	1.2	7
45	Spinal and corticospinal pathways are differently modulated when standing at the bottom and the top of a three-step staircase in young and older adults. <i>European Journal of Applied Physiology</i> , 2017, 117, 1165-1174.	1.2	7
46	Interaction between eye and body movements to perform visual tasks in upright stance. <i>Human Movement Science</i> , 2019, 68, 102541.	0.6	7
47	Aftereffects of prolonged Achilles tendon vibration on postural control are reduced in older adults. <i>Experimental Gerontology</i> , 2020, 131, 110822.	1.2	7
48	Changes in corticospinal excitability during the preparation phase of ballistic and ramp contractions. <i>Journal of Physiology</i> , 2021, 599, 1551-1566.	1.3	7
49	Effects of tendon vibration and age on force reproduction task performed with wrist flexors. <i>Experimental Brain Research</i> , 2022, 240, 941-951.	0.7	4
50	Modulation of the Hoffmann reflex in soleus and medial gastrocnemius during stair ascent and descent in young and older adults. <i>Gait and Posture</i> , 2019, 68, 115-121.	0.6	3
51	Muscle fatigability measured with Pneumatic and Hydraulic handgrip systems are not interchangeable. <i>Experimental Gerontology</i> , 2020, 136, 110950.	1.2	3
52	Forearm muscles fatigue induced by repetitive braking on a motorcycle is best discriminated by specific kinetic parameters. <i>PLoS ONE</i> , 2021, 16, e0246242.	1.1	3
53	Postural Control Disturbances Induced by Virtual Reality in Stroke Patients. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1510.	1.3	3
54	Neural Correlates to the Increase in Maximal Force after Dexamethasone Administration. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 218-224.	0.2	2

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55	Effects of postactivation potentiation on mechanical output and muscle architecture during electrically induced contractions in plantar flexors. <i>Journal of Applied Physiology</i> , 2022, 132, 1213-1222.	1.2	2
56	Passive torque influences the Hoffmann reflex pathway during the loading and unloading phases of plantar flexor muscles stretching. <i>Physiological Reports</i> , 2021, 9, e14834.	0.7	1
57	Muscle Fatigue When Riding a Motorcycle: A Case Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7738.	1.2	1
58	Editorial: Neuromechanics in Movement and Disease With Physiological and Pathophysiological Implications: From Fundamental Experiments to Bio-Inspired Technologies. <i>Frontiers in Physiology</i> , 2022, 13, 895968.	1.3	0