Jakob Lorentzen

List of Publications by Year
in descending order

48	1,305	394286 19	360920 35
papers	citations	h-index	g-index

51	51	51	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distinguishing active from passive components of ankle plantar flexor stiffness in stroke, spinal cord injury and multiple sclerosis. Clinical Neurophysiology, 2010, 121, 1939-1951.	0.7	200
2	Post-activation depression of Soleus stretch reflexes in healthy and spastic humans. Experimental Brain Research, 2008, 185, 189-197.	0.7	118
3	Muscle growth is reduced in 15â€monthâ€old children with cerebral palsy. Developmental Medicine and Child Neurology, 2016, 58, 485-491.	1.1	108
4	Passive muscle properties are altered in children with cerebral palsy before the age of 3Âyears and are difficult to distinguish clinically from spasticity. Developmental Medicine and Child Neurology, 2013, 55, 617-623.	1.1	88
5	Impaired muscle growth precedes development of increased stiffness of the triceps surae musculotendinous unit in children with cerebral palsy. Developmental Medicine and Child Neurology, 2018, 60, 672-679.	1.1	68
6	A randomized clinical trial in preterm infants on the effects of a home-based early intervention with the 'CareToy System'. PLoS ONE, 2017, 12, e0173521.	1.1	58
7	Science-Based Neurorehabilitation: Recommendations for Neurorehabilitation From Basic Science. Journal of Motor Behavior, 2015, 47, 7-17.	0.5	54
8	Impaired gait function in adults with cerebral palsy is associated with reduced rapid force generation and increased passive stiffness. Clinical Neurophysiology, 2015, 126, 2320-2329.	0.7	53
9	On Denny-Brownâ€™s â€˜spastic dystoniaâ€™ â€“ What is it and what causes it?. Clinical Neurophysiology, 2018, 129, 89-94.	0.7	42
10	Gait training reduces ankle joint stiffness and facilitates heel strike in children with Cerebral Palsy. NeuroRehabilitation, 2014, 35, 643-655.	0.5	37
11	A pilot study on early home-based intervention through an intelligent baby gym (CareToy) in preterm infants. Research in Developmental Disabilities, 2016, 53-54, 32-42.	1.2	32
12	Explosive Resistance Training Increases Rate of Force Development in Ankle Dorsiflexors and Gait Function in Adults With Cerebral Palsy. Journal of Strength and Conditioning Research, 2016, 30, 2749-2760.	1.0	28
13	Twenty weeks of home-based interactive training of children with cerebral palsy improves functional abilities. BMC Neurology, 2015, 15, 75.	0.8	27
14	To be active through indoor-climbing: an exploratory feasibility study in a group of children with cerebral palsy and typically developing children. BMC Neurology, 2017, 17, 112.	0.8	27
15	Spasticity in adults with cerebral palsy and multiple sclerosis measured by objective clinically applicable technique. Clinical Neurophysiology, 2018, 129, 2010-2021.	0.7	27
16	Botulinum toxin injection causes hyper-reflexia and increased muscle stiffness of the triceps surae muscle in the rat. Journal of Neurophysiology, 2016, 116, 2615-2623.	0.9	26
17	Home-based, early intervention with mechatronic toys for preterm infants at risk of neurodevelopmental disorders (CARETOY): a RCT protocol. BMC Pediatrics, 2014, 14, 268.	0.7	25
18	Development and aging of human spinal cord circuitries. Journal of Neurophysiology, 2017, 118, 1133-1140.	0.9	25

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19	Assessment of a portable device for the quantitative measurement of ankle joint stiffness in spastic individuals. Clinical Neurophysiology, 2012, 123, 1371-1382.	0.7	24
20	Spastic movement disorder: should we forget hyperexcitable stretch reflexes and start talking about inappropriate prediction of sensory consequences of movement?. Experimental Brain Research, 2020, 238, 1627-1636.	0.7	21
21	Treadmill training with an incline reduces ankle joint stiffness and improves active range of movement during gait in adults with cerebral palsy. Disability and Rehabilitation, 2017, 39, 987-993.	0.9	20
22	Contribution of sensory feedback to plantar flexor muscle activation during push-off in adults with cerebral palsy. Journal of Neurophysiology, 2017, 118, 3165-3174.	0.9	17
23	Effects on Parental Stress of Early Home-Based CareToy Intervention in Low-Risk Preterm Infants. Neural Plasticity, 2019, 2019, 1-8.	1.0	17
24	Maturation of feedforward toe walking motor program is impaired in children with cerebral palsy. Brain, 2019, 142, 526-541.	3.7	17
25	Wearable electromyography recordings during daily life activities in children with cerebral palsy. Developmental Medicine and Child Neurology, 2020, 62, 714-722.	1.1	16
26	Suboptimal Nutrition and Low Physical Activity Are Observed Together with Reduced Plasma Brain-Derived Neurotrophic Factor (BDNF) Concentration in Children with Severe Cerebral Palsy (CP). Nutrients, 2019, 11, 620.	1.7	13
27	Children with dyskinetic cerebral palsy are severely affected as compared to bilateral spastic cerebral palsy. Acta Paediatrica, International Journal of Paediatrics, 2019, 108, 1850-1856.	0.7	13
28	Transcutaneous spinal direct current stimulation increases corticospinal transmission and enhances voluntary motor output in humans. Physiological Reports, 2020, 8, e14531.	0.7	12
29	Sustained involuntary muscle activity in cerebral palsy and stroke: same symptom, diverse mechanisms. Brain Communications, 2019, 1, fcz037.	1.5	10
30	Gait training facilitates push-off and improves gait symmetry in children with cerebral palsy. Human Movement Science, 2020, 69, 102565.	0.6	10
31	Characterization of torque generating properties of ankle plantar flexor muscles in ambulant adults with cerebral palsy. European Journal of Applied Physiology, 2019, 119, 1127-1136.	1.2	9
32	Bilateral and asymmetrical contributions of passive and active ankle plantar flexors stiffness to spasticity in humans with spinal cord injury. Journal of Neurophysiology, 2020, 124, 973-984.	0.9	9
33	Neural tension technique is no different from random passive movements in reducing spasticity in patients with traumatic brain injury. Disability and Rehabilitation, 2012, 34, 1978-1985.	0.9	7
34	Feedforward neural control of toe walking in humans. Journal of Physiology, 2018, 596, 2159-2172.	1.3	7
35	Contribution of corticospinal drive to ankle plantar flexor muscle activation during gait in adults with cerebral palsy. Experimental Brain Research, 2019, 237, 1457-1467.	0.7	5
36	The effect of cathodal transspinal direct current stimulation on tibialis anterior stretch reflex components in humans. Experimental Brain Research, 2021, 240, 159.	0.7	5

#	Article	IF	Citations
37	Sequence variants in muscle tissueâ€related genes may determine the severity of muscle contractures in cerebral palsy. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2019, 180, 12-24.	1.1	4
38	Factors correlated with running economy among elite middleâ€and longâ€distance runners. Physiological Reports, 2021, 9, e15076.	0.7	4
39	Muscle Contractures in Adults With Cerebral Palsy Characterized by Combined Ultrasound-Derived Echo Intensity and Handheld Dynamometry Measures. Ultrasound in Medicine and Biology, 2022, , .	0.7	4
40	Neuroplasticity at Home: Improving Home-Based Motor Learning Through Technological Solutions. A Review. Frontiers in Rehabilitation Sciences, 2021, 2, .	0.5	4
41	Nonsurgical Treatment Options for Muscle Contractures in Individuals With Neurologic Disorders: A Systematic Review With Meta-Analysis. Archives of Rehabilitation Research and Clinical Translation, 2021, 3, 100104.	0.5	3
42	COpenhagen Neuroplastic TRaining Against Contractures in Toddlers (CONTRACT): protocol of an open-label randomised clinical trial with blinded assessment for prevention of contractures in infants with high risk of cerebral palsy. BMJ Open, 2021, 11, e044674.	0.8	3
43	Quantitative MRI and Clinical Assessment of Muscle Function in Adults With Cerebral Palsy. Frontiers in Neurology, 2021, 12, 771375.	1.1	3
44	Corticomuscular coherence is reduced in relation to dorsiflexion fatigability to the same extent in adults with cerebral palsy as in neurologically intact adults. European Journal of Applied Physiology, 2022, , 1.	1.2	2
45	The benefits of strength training in cerebral palsy. Developmental Medicine and Child Neurology, 2020, 62, 1232-1232.	1.1	1
46	Increased Ankle Plantar Flexor Stiffness Is Associated With Reduced Mechanical Response to Stretch in Adults With CP. Frontiers in Bioengineering and Biotechnology, 2021, 9, 604071.	2.0	1
47	Contribution of sensory feedback to soleus muscle activity during voluntary contraction in humans. Journal of Neurophysiology, 2022, 127, 1147-1158.	0.9	1
48	Using both electromyography and movement disorder assessment improved the classification of children with dyskinetic cerebral palsy. Acta Paediatrica, International Journal of Paediatrics, 2021, , .	0.7	0