

# Benjamin R Shuman

## List of Publications by Year in descending order

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Version: 2024-02-01

12  
papers

453  
citations

1039406

9  
h-index

1199166

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromyography Data Processing Impacts Muscle Synergies during Gait for Unimpaired Children and Children with Cerebral Palsy. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 50.	1.2	87
2	Muscle synergies demonstrate only minimal changes after treatment in cerebral palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 46.	2.4	77
3	Repeatability of muscle synergies within and between days for typically developing children and children with cerebral palsy. <i>Gait and Posture</i> , 2016, 45, 127-132.	0.6	60
4	Muscle recruitment and coordination with an ankle exoskeleton. <i>Journal of Biomechanics</i> , 2017, 59, 50-58.	0.9	53
5	Repeatability of electromyography recordings and muscle synergies during gait among children with cerebral palsy. <i>Gait and Posture</i> , 2019, 67, 290-295.	0.6	39
6	Associations Between Muscle Synergies and Treatment Outcomes in Cerebral Palsy Are Robust Across Clinical Centers. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 2175-2182.	0.5	35
7	Crouch severity is a poor predictor of elevated oxygen consumption in cerebral palsy. <i>Journal of Biomechanics</i> , 2017, 60, 170-174.	0.9	34
8	Non-neural Muscle Weakness Has Limited Influence on Complexity of Motor Control during Gait. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 5.	1.0	33
9	Muscle synergy structure and gait patterns in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2022, 64, 462-468.	1.1	13
10	Muscle weakness has a limited effect on motor control of gait in Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2020, 15, e0238445.	1.1	12
11	Muscle Synergy Constraints Do Not Improve Estimates of Muscle Activity From Static Optimization During Gait for Unimpaired Children or Children With Cerebral Palsy. <i>Frontiers in Neurorobotics</i> , 2019, 13, 102.	1.6	9
12	Uneven Treadmill Training for Rehabilitation of Lateral Ankle Sprains and Chronic Ankle Instability: Protocol for a Pragmatic Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2022, 11, e38442.	0.5	1