

# Francesca Sylos Labini

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,353  
citations

393982

19  
h-index

377514

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Control of the MINDWALKER Exoskeleton. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 277-286.	2.7	287
2	EMG patterns during assisted walking in the exoskeleton. Frontiers in Human Neuroscience, 2014, 8, 423.	1.0	106
3	From Spinal Central Pattern Generators to Cortical Network: Integrated BCI for Walking Rehabilitation. Neural Plasticity, 2012, 2012, 1-13.	1.0	91
4	Recurrence quantification analysis of gait in normal and hypovestibular subjects. Gait and Posture, 2012, 35, 48-55.	0.6	70
5	Function dictates the phase dependence of vision during human locomotion. Journal of Neurophysiology, 2014, 112, 165-180.	0.9	55
6	Features of hand-foot crawling behavior in human adults. Journal of Neurophysiology, 2012, 107, 114-125.	0.9	48
7	Distinct locomotor precursors in newborn babies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9604-9612.	3.3	45
8	Locomotor-Like Leg Movements Evoked by Rhythmic Arm Movements in Humans. PLoS ONE, 2014, 9, e90775.	1.1	45
9	Spinal motoneurons of the human newborn are highly synchronized during leg movements. Science Advances, 2020, 6, .	4.7	44
10	Gait transitions in simulated reduced gravity. Journal of Applied Physiology, 2011, 110, 781-788.	1.2	38
11	Human-Human Interaction Forces and Interlimb Coordination During Side-by-Side Walking With Hand Contact. Frontiers in Physiology, 2018, 9, 179.	1.3	38
12	MINDWALKER: Going one step further with assistive lower limbs exoskeleton for SCI condition subjects. , 2012, , .		36
13	Vestibular Rehabilitation Outcomes in Chronic Vertiginous Patients Through Computerized Dynamic Visual Acuity and Gaze Stabilization Test. Otology and Neurotology, 2007, 28, 809-813.	0.7	35
14	Balance Impairment After Acoustic Neuroma Surgery. Otology and Neurotology, 2007, 28, 814-821.	0.7	34
15	Human Locomotion under Reduced Gravity Conditions: Biomechanical and Neurophysiological Considerations. BioMed Research International, 2014, 2014, 1-12.	0.9	34
16	Smooth changes in the EMG patterns during gait transitions under body weight unloading. Journal of Neurophysiology, 2011, 106, 1525-1536.	0.9	32
17	Human Locomotion in Hypogravity: From Basic Research to Clinical Applications. Frontiers in Physiology, 2017, 8, 893.	1.3	31
18	Backward walking highlights gait asymmetries in children with cerebral palsy. Journal of Neurophysiology, 2018, 119, 1153-1165.	0.9	30

#	ARTICLE	IF	CITATIONS
19	Emergence of Different Gaits in Infancy: Relationship Between Developing Neural Circuitries and Changing Biomechanics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 473.	2.0	25
20	Changes of Gait Kinematics in Different Simulators of Reduced Gravity. <i>Journal of Motor Behavior</i> , 2013, 45, 495-505.	0.5	21
21	Maturation of the Locomotor Circuitry in Children With Cerebral Palsy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 998.	2.0	20
22	Tonic and Rhythmic Spinal Activity Underlying Locomotion. <i>Current Pharmaceutical Design</i> , 2017, 23, 1753-1763.	0.9	20
23	Foot Placement Characteristics and Plantar Pressure Distribution Patterns during Stepping on Ground in Neonates. <i>Frontiers in Physiology</i> , 2017, 8, 784.	1.3	18
24	Early manifestation of arm-leg coordination during stepping on a surface in human neonates. <i>Experimental Brain Research</i> , 2018, 236, 1105-1115.	0.7	17
25	Age-related changes in the neuromuscular control of forward and backward locomotion. <i>PLoS ONE</i> , 2021, 16, e0246372.	1.1	17
26	Oscillopsia in labyrinthine defective patients: comparison of objective and subjective measures. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2010, 31, 399-403.	0.6	15
27	Control of Leg Movements Driven by EMG Activity of Shoulder Muscles. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 838.	1.0	15
28	Tapping into rhythm generation circuitry in humans during simulated weightlessness conditions. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 14.	1.2	15
29	Muscle Responses to Passive Joint Movements in Infants During the First Year of Life. <i>Frontiers in Physiology</i> , 2019, 10, 1158.	1.3	13
30	Muscle Coordination and Locomotion in Humans. <i>Current Pharmaceutical Design</i> , 2017, 23, 1821-1833.	0.9	12
31	Locomotor patterns during obstacle avoidance in children with cerebral palsy. <i>Journal of Neurophysiology</i> , 2020, 124, 574-590.	0.9	10
32	Clinical Relevance of State-of-the-Art Analysis of Surface Electromyography in Cerebral Palsy. <i>Frontiers in Neurology</i> , 2020, 11, 583296.	1.1	10
33	Pelvic movements during walking throughout gestation - the relationship between morphology and kinematic parameters. <i>Clinical Biomechanics</i> , 2020, 71, 146-151.	0.5	9
34	Development of Locomotor-Related Movements in Early Infancy. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 623759.	1.8	9
35	Neuromuscular Age-Related Adjustment of Gait When Moving Upwards and Downwards. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 749366.	1.0	8
36	Non-synergistic synergies of muscle activation: an apparent oxymoron. <i>Journal of Physiology</i> , 2019, 597, 5743-5744.	1.3	0