

# Maurizio Petrarca

## List of Publications by Year in descending order

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64  
papers

1,060  
citations

430442

18  
h-index

476904

29  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upper Body Physical Rehabilitation for Children with Ataxia through IMU-Based Exergame. <i>Journal of Clinical Medicine</i> , 2022, 11, 1065.	1.0	7
2	Comparison of the Gait Biomechanical Constraints in Three Different Type of Neuromotor Damages. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 822205.	1.0	3
3	Robot-Assisted Upper Limb Training for Patients with Multiple Sclerosis: An Evidence-Based Review of Clinical Applications and Effectiveness. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 222.	1.3	4
4	Systematic review of guidelines to identify recommendations for upper limb robotic rehabilitation after stroke. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 238-245.	1.1	32
5	Robotic-assisted gait rehabilitation following stroke: a systematic review of current guidelines and practical clinical recommendations. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 460-471.	1.1	39
6	Robotic-assisted locomotor treadmill therapy does not change gait pattern in children with cerebral palsy. <i>International Journal of Rehabilitation Research</i> , 2021, 44, 69-76.	0.7	9
7	Robot-assisted arm therapy in neurological health conditions: rationale and methodology for the evidence synthesis in the CICERONE Italian Consensus Conference. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 824-830.	1.1	9
8	State of the art and challenges for the classification of studies on electromechanical and robotic devices in neurorehabilitation: a scoping review. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 831-840.	1.1	23
9	Artificial Intelligence for Dysarthria Assessment in Children With Ataxia: A Hierarchical Approach. <i>IEEE Access</i> , 2021, 9, 166720-166735.	2.6	4
10	Upper Limb Robotic Rehabilitation for Patients with Cervical Spinal Cord Injury: A Comprehensive Review. <i>Brain Sciences</i> , 2021, 11, 1630.	1.1	16
11	Electromechanical and Robotic Devices for Gait and Balance Rehabilitation of Children with Neurological Disability: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12061.	1.3	2
12	Effect of Robot-Assisted Gait Training in a Large Population of Children With Motor Impairment Due to Cerebral Palsy or Acquired Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 106-112.	0.5	28
13	Development of SaraHome: A novel, well-accepted, technology-based assessment tool for patients with ataxia. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 188, 105257.	2.6	21
14	Spatio-temporal parameters of ataxia gait dataset obtained with the Kinect. <i>Data in Brief</i> , 2020, 32, 106307.	0.5	10
15	Validation of low-cost system for gait assessment in children with ataxia. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105705.	2.6	17
16	Progression of muscular co-activation and gait variability in children with Duchenne muscular dystrophy: A 2-year follow-up study. <i>Clinical Biomechanics</i> , 2020, 78, 105101.	0.5	6
17	Robotic Technology in Pediatric Neurorehabilitation. A Pilot Study of Human Factors in an Italian Pediatric Hospital. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3503.	1.2	9
18	Minimum Clinically Important Difference of Gross Motor Function and Gait Endurance in Children with Motor Impairment: A Comparison of Distribution-Based Approaches. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	43

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19	The Human Body Model versus conventional gait models for kinematic gait analysis in children with cerebral palsy. <i>Human Movement Science</i> , 2020, 70, 102585.	0.6	25
20	A wearable video-oculography based evaluation of saccades and respective clinical correlates in patients with early onset ataxia. <i>Journal of Neuroscience Methods</i> , 2020, 338, 108697.	1.3	3
21	Development of a Dynamic Oriented Rehabilitative Integrated System (DORIS) and Preliminary Tests. <i>Sensors</i> , 2019, 19, 3402.	2.1	4
22	Evaluation of gait in Duchenne Muscular Dystrophy: Relation of 3D gait analysis to clinical assessment. <i>Neuromuscular Disorders</i> , 2019, 29, 920-929.	0.3	14
23	Gait changes after weight loss on adolescent with severe obesity after sleeve gastrectomy. <i>Surgery for Obesity and Related Diseases</i> , 2019, 15, 374-381.	1.0	7
24	An image-based kinematic model of the tibiotalar and subtalar joints and its application to gait analysis in children with Juvenile Idiopathic Arthritis. <i>Journal of Biomechanics</i> , 2019, 85, 27-36.	0.9	27
25	Linking Joint Impairment and Gait Biomechanics in Patients with Juvenile Idiopathic Arthritis. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2155-2167.	1.3	15
26	Development of a dynamic oriented rehabilitative integrated system. , 2019, 2019, 5245-5250.		1
27	One-year outcome of coenzyme Q10 supplementation in ADCK3 ataxia (ARCA2). <i>Cerebellum and Ataxias</i> , 2019, 6, 15.	1.9	15
28	Natural history of a cohort of <i><sc>ABCD</sc>1</i> variant female carriers. <i>European Journal of Neurology</i> , 2019, 26, 326-332.	1.7	19
29	Longitudinal gait assessment in a stiff person syndrome. <i>International Journal of Rehabilitation Research</i> , 2018, 41, 377-379.	0.7	6
30	Non-invasive Focal Mechanical Vibrations Delivered by Wearable Devices: An Open-Label Pilot Study in Childhood Ataxia. <i>Frontiers in Neurology</i> , 2018, 9, 849.	1.1	10
31	O 104 - MRI-based musculoskeletal models for the quantification of gait in children with Juvenile Idiopathic Arthritis. <i>Gait and Posture</i> , 2018, 65, 216-218.	0.6	1
32	Carbon Modular Orthosis (Ca.M.O.): An innovative hybrid modular ankle-foot orthosis to tune the variable rehabilitation needs in hemiplegic cerebral palsy. <i>NeuroRehabilitation</i> , 2017, 40, 447-457.	0.5	11
33	Case report: atypical gait pattern in a child with dystonic CP. <i>Gait and Posture</i> , 2017, 57, 372-374.	0.6	1
34	SIAMOC position paper on gait analysis in clinical practice: General requirements, methods and appropriateness. Results of an Italian consensus conference. <i>Gait and Posture</i> , 2017, 58, 252-260.	0.6	82
35	Spasticity Measurement Based on Tonic Stretch Reflex Threshold in Children with Cerebral Palsy Using the PediAnklebot. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 277.	1.0	33
36	Functional and Gait Assessment in Children and Adolescents Affected by Friedreich's Ataxia: A One-Year Longitudinal Study. <i>PLoS ONE</i> , 2016, 11, e0162463.	1.1	21

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37	Evaluation of the effects on stride-to-stride variability and gait asymmetry in children with Cerebral Palsy wearing the WAKE-up ankle module. , 2016, , .		20
38	The impact of vision on the dynamic characteristics of the gait: strategies in children with blindness. Experimental Brain Research, 2016, 234, 2619-2627.	0.7	16
39	Estimation of multivariable dynamic ankle impedance after botulinum toxin injection in children with cerebral palsy. , 2016, , .		2
40	A Patient-Specific Foot Model for the Estimate of Ankle Joint Forces in Patients with Juvenile Idiopathic Arthritis. Annals of Biomedical Engineering, 2016, 44, 247-257.	1.3	41
41	Time to boundary function to assess upright stance in blind children. , 2015, 2015, 3468-71.		3
42	Robotic and clinical evaluation of upper limb motor performance in patients with Friedreichâ€™s Ataxia: an observational study. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 41.	2.4	42
43	Functional and gait assessment in children with Duchenne muscular dystrophy: Quantitative and functional evaluation. Neuromuscular Disorders, 2015, 25, S230-S231.	0.3	1
44	Upper body balance control strategy during continuous 3D postural perturbation in young adults. Gait and Posture, 2015, 41, 19-25.	0.6	20
45	Shoulder motor performance assessment in the sagittal plane in children with hemiplegia during single joint pointing tasks. BioMedical Engineering OnLine, 2014, 13, 106.	1.3	2
46	Compensation to whole body active rotation perturbation. Gait and Posture, 2014, 39, 621-624.	0.6	7
47	EMG and Kinematics Assessment of Postural Responses during Balance Perturbation on a 3D Robotic Platform: Preliminary Results in Children with Hemiplegia. IFMBE Proceedings, 2014, , 69-72.	0.2	3
48	Spatial rotational orientation ability in standing children with cerebral palsy. Gait and Posture, 2013, 37, 494-499.	0.6	7
49	Feasibility Study of a Wearable Exoskeleton for Children: Is the Gait Altered by Adding Masses on Lower Limbs?. PLoS ONE, 2013, 8, e73139.	1.1	52
50	Gait Detection in Children with and without Hemiplegia Using Single-Axis Wearable Gyroscopes. PLoS ONE, 2013, 8, e73152.	1.1	77
51	Brain network involved in visual processing of movement stimuli used in upper limb robotic training: an fMRI study. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 49.	2.4	16
52	Vestibular and proprioceptive estimation of imposed rotation and spatial updating in standing subjects. Gait and Posture, 2011, 33, 582-587.	0.6	10
53	Reduced short term adaptation to robot generated dynamic environment in children affected by Cerebral Palsy. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 28.	2.4	30
54	Abnormal adaptation in children affected by cerebral palsy to robot generated dynamic environment. , 2010, 2010, 3410-3.		1

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55	Robot-mediated and clinical scales evaluation after upper limb botulinum toxin type A injection in children with hemiplegia. <i>Journal of Rehabilitation Medicine</i> , 2009, 41, 988-994.	0.8	15
56	Reach-to-grasp interjoint coordination for moving object in children with hemiplegia. <i>Journal of Rehabilitation Medicine</i> , 2009, 41, 995-100.	0.8	6
57	Reorientation ability of adults and healthy children submitted to whole body horizontal rotations. <i>Cognitive Processing</i> , 2009, 10, 346-350.	0.7	8
58	Effect of changing visual condition and frequency of horizontal oscillations on postural balance of standing healthy subjects. <i>Gait and Posture</i> , 2008, 28, 615-626.	0.6	37
59	Robotic Rehabilitation of Upper Limbs in Children. <i>Journal of Head Trauma Rehabilitation</i> , 2008, 23, 341.	1.0	1
60	A Novel Robotic System to Study the Upper Limb Strategy During Reaching of a Moving Target. , 2007, , 107.		0
61	Recovery from hemiparesis and unilateral spatial neglect after neonatal stroke. Case report and rehabilitation of an infant. <i>Brain Injury</i> , 2007, 21, 81-91.	0.6	24
62	Stepping over obstacles of different heights: Kinematic and kinetic strategies of leading limb in hemiplegic children. <i>Gait and Posture</i> , 2006, 24, 331-341.	0.6	11
63	Visual Recognition and Visually Guided Action After Early Bilateral Lesion of Occipital Cortex: A Behavioral Study of a 4.6-year-old Girl. <i>Neurocase</i> , 2006, 12, 263-279.	0.2	13
64	Gait analysis in patients operated on for sacrococcygeal teratoma. <i>Journal of Pediatric Surgery</i> , 2004, 39, 947-952.	0.8	18