

Maurizio Petrarca

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Gait Detection in Children with and without Hemiplegia Using Single-Axis Wearable Gyroscopes. <i>PLoS ONE</i> , 2013, 8, e73152.	1.1	77
3	Feasibility Study of a Wearable Exoskeleton for Children: Is the Gait Altered by Adding Masses on Lower Limbs?. <i>PLoS ONE</i> , 2013, 8, e73139.	1.1	52
4	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
5	Robotic and clinical evaluation of upper limb motor performance in patients with Friedreich's Ataxia: an observational study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 41.	2.4	42
6	A Patient-Specific Foot Model for the Estimate of Ankle Joint Forces in Patients with Juvenile Idiopathic Arthritis. <i>Annals of Biomedical Engineering</i> , 2016, 44, 247-257.	1.3	41
7	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
8	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
9	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
10	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
11	Reduced short term adaptation to robot generated dynamic environment in children affected by Cerebral Palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 28.	2.4	30
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	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
14	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
15	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
16	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
17	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
18	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

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19	Upper body balance control strategy during continuous 3D postural perturbation in young adults. <i>Gait and Posture</i> , 2015, 41, 19-25.	0.6	20
20	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
21	Natural history of a cohort of <i><scp>ABCD</scp>1</i> variant female carriers. <i>European Journal of Neurology</i> , 2019, 26, 326-332.	1.7	19
22	Gait analysis in patients operated on for sacrococcygeal teratoma. <i>Journal of Pediatric Surgery</i> , 2004, 39, 947-952.	0.8	18
23	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
24	Brain network involved in visual processing of movement stimuli used in upper limb robotic training: an fMRI study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012, 9, 49.	2.4	16
25	The impact of vision on the dynamic characteristics of the gait: strategies in children with blindness. <i>Experimental Brain Research</i> , 2016, 234, 2619-2627.	0.7	16
26	Upper Limb Robotic Rehabilitation for Patients with Cervical Spinal Cord Injury: A Comprehensive Review. <i>Brain Sciences</i> , 2021, 11, 1630.	1.1	16
27	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
28	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
29	One-year outcome of coenzyme Q10 supplementation in ADCK3 ataxia (ARCA2). <i>Cerebellum and Ataxias</i> , 2019, 6, 15.	1.9	15
30	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
31	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
32	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
33	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
34	Vestibular and proprioceptive estimation of imposed rotation and spatial updating in standing subjects. <i>Gait and Posture</i> , 2011, 33, 582-587.	0.6	10
35	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
36	Spatio-temporal parameters of ataxia gait dataset obtained with the Kinect. <i>Data in Brief</i> , 2020, 32, 106307.	0.5	10

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37	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
38	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
39	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
40	Reorientation ability of adults and healthy children submitted to whole body horizontal rotations. <i>Cognitive Processing</i> , 2009, 10, 346-350.	0.7	8
41	Spatial rotational orientation ability in standing children with cerebral palsy. <i>Gait and Posture</i> , 2013, 37, 494-499.	0.6	7
42	Compensation to whole body active rotation perturbation. <i>Gait and Posture</i> , 2014, 39, 621-624.	0.6	7
43	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
44	Upper Body Physical Rehabilitation for Children with Ataxia through IMU-Based Exergame. <i>Journal of Clinical Medicine</i> , 2022, 11, 1065.	1.0	7
45	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
46	Longitudinal gait assessment in a stiff person syndrome. <i>International Journal of Rehabilitation Research</i> , 2018, 41, 377-379.	0.7	6
47	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
48	Development of a Dynamic Oriented Rehabilitative Integrated System (DORIS) and Preliminary Tests. <i>Sensors</i> , 2019, 19, 3402.	2.1	4
49	Artificial Intelligence for Dysarthria Assessment in Children With Ataxia: A Hierarchical Approach. <i>IEEE Access</i> , 2021, 9, 166720-166735.	2.6	4
50	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
51	Time to boundary function to assess upright stance in blind children. , 2015, 2015, 3468-71.		3
52	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
53	EMG and Kinematics Assessment of Postural Responses during Balance Perturbation on a 3D Robotic Platform: Preliminary Results in Children with Hemiplegia. <i>IFMBE Proceedings</i> , 2014, , 69-72.	0.2	3
54	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

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55	Shoulder motor performance assessment in the sagittal plane in children with hemiplegia during single joint pointing tasks. <i>BioMedical Engineering OnLine</i> , 2014, 13, 106.	1.3	2
56	Estimation of multivariable dynamic ankle impedance after botulinum toxin injection in children with cerebral palsy. , 2016, , .		2
57	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
58	Robotic Rehabilitation of Upper Limbs in Children. <i>Journal of Head Trauma Rehabilitation</i> , 2008, 23, 341.	1.0	1
59	Abnormal adaptation in children affected by cerebral palsy to robot generated dynamic environment. , 2010, 2010, 3410-3.		1
60	Functional and gait assessment in children with Duchenne muscular dystrophy: Quantitative and functional evaluation. <i>Neuromuscular Disorders</i> , 2015, 25, S230-S231.	0.3	1
61	Case report: atypical gait pattern in a child with dystonic CP. <i>Gait and Posture</i> , 2017, 57, 372-374.	0.6	1
62	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
63	Development of a dynamic oriented rehabilitative integrated system. , 2019, 2019, 5245-5250.		1
64	A Novel Robotic System to Study the Upper Limb Strategy During Reaching of a Moving Target. , 2007, , 107.		0