

# Giuseppe Vannozzi

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

2,395  
citations

257450

24  
h-index

223800

46  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2838  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing motor competence in kicking in individuals with Down syndrome through wearable motion sensors. <i>Journal of Intellectual Disability Research</i> , 2022, , .	2.0	3
2	Motor Competence in Individuals with Down Syndrome: Is an Improvement Still Possible in Adulthood?. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2157.	2.6	6
3	Biomechanics of the Hammer Throw: Narrative Review. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 853536.	1.8	3
4	Rhythmic ability decline in aging individuals: The role of movement task complexity. <i>Biomedical Human Kinetics</i> , 2022, 14, 41-53.	0.6	1
5	The Use of Wearable Sensors for Preventing, Assessing, and Informing Recovery from Sport-Related Musculoskeletal Injuries: A Systematic Scoping Review. <i>Sensors</i> , 2022, 22, 3225.	3.8	13
6	Editorial: Rhythmic Patterns in Neuroscience and Human Physiology. <i>Frontiers in Human Neuroscience</i> , 2022, 16, .	2.0	1
7	Does visual cueing improve gait initiation in people with Parkinson's disease?. <i>Human Movement Science</i> , 2022, 84, 102970.	1.4	7
8	Non-specific chronic low back pain elicits kinematic and neuromuscular changes in walking and gait termination. <i>Gait and Posture</i> , 2021, 84, 238-244.	1.4	12
9	Age differences in anticipatory and executory mechanisms of gait initiation following unexpected balance perturbations. <i>European Journal of Applied Physiology</i> , 2021, 121, 465-478.	2.5	11
10	Auditory Cue Based on the Golden Ratio Can Improve Gait Patterns in People with Parkinson's Disease. <i>Sensors</i> , 2021, 21, 911.	3.8	11
11	An Innovative Sensor Fusion Algorithm for Motion Tracking With On-Line Bias Compensation: Application to Joint Angles Estimation in Yoga. <i>IEEE Sensors Journal</i> , 2021, 21, 21285-21294.	4.7	6
12	Wearable Sensors in Sports for Persons with Disability: A Systematic Review. <i>Sensors</i> , 2021, 21, 1858.	3.8	37
13	Estimation of 3D Body Center of Mass Acceleration and Instantaneous Velocity from a Wearable Inertial Sensor Network in Transfemoral Amputee Gait: A Case Study. <i>Sensors</i> , 2021, 21, 3129.	3.8	15
14	Biomechanical characteristics of handstand walking initiation. <i>Gait and Posture</i> , 2021, 86, 311-318.	1.4	2
15	Anticipatory postural adjustments in forward and backward single stepping: Task variability and effects of footwear. <i>Journal of Biomechanics</i> , 2021, 122, 110442.	2.1	3
16	THE HYBRID SUBISCHIAL SOCKET FOR PERSONS WITH TRANSFEMORAL AMPUTATION: GAIT PARAMETERS AND CLINICAL ASSESSMENT OF A CASE SERIES. <i>Canadian Prosthetics &amp; Orthotics Journal</i> , 2021, 4, .	0.4	1
17	Hopping skill in individuals with Down syndrome: A qualitative and quantitative assessment. <i>Human Movement Science</i> , 2021, 78, 102821.	1.4	3
18	Modifications in Prefrontal Cortex Oxygenation in Linear and Curvilinear Dual Task Walking: A Combined fNIRS and IMUs Study. <i>Sensors</i> , 2021, 21, 6159.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Three-dimensional acceleration of the body center of mass in people with transfemoral amputation: Identification of a minimal body segment network. <i>Gait and Posture</i> , 2021, 90, 129-136.	1.4	2
20	Neuromechanical response of the upper body to unexpected perturbations during gait initiation in young and older adults. <i>Aging Clinical and Experimental Research</i> , 2021, 33, 909-919.	2.9	7
21	Deep Echo State Networks for Functional Ambulation Categories Estimation. , 2021, , .		0
22	Feasibility of using wearable inertial sensors for assessing gait changes after total knee arthroplasty: a systematic review and meta-analysis. <i>Minerva Orthopedics</i> , 2021, 72, .	1.0	2
23	Magnetic-free Extended Kalman Filter for upper limb kinematic assessment in Yoga. , 2021, 2021, 937-940.		2
24	Characterization of Anticipatory Postural Adjustments in Lateral Stepping: Impact of Footwear and Lower Limb Preference. <i>Sensors</i> , 2021, 21, 8244.	3.8	1
25	Gait event detection using inertial measurement units in people with transfemoral amputation: a comparative study. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 461-470.	2.8	13
26	Does Curved Walking Sharpen the Assessment of Gait Disorders? An Instrumented Approach Based on Wearable Inertial Sensors. <i>Sensors</i> , 2020, 20, 5244.	3.8	18
27	Sensorized Assessment of Dynamic Locomotor Imagery in People with Stroke and Healthy Subjects. <i>Sensors</i> , 2020, 20, 4545.	3.8	13
28	A Wearable Magnetometer-Free Motion Capture System: Innovative Solutions for Real-World Applications. <i>IEEE Sensors Journal</i> , 2020, 20, 8844-8857.	4.7	25
29	Stepping forward, stepping backward: a movement-related cortical potential study unveils distinctive brain activities. <i>Behavioural Brain Research</i> , 2020, 388, 112663.	2.2	11
30	Gross Motor Functions Assessed Through The Tgmd-3 In Down Syndrome Individuals And Related Gender Differences. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 557-557.	0.4	0
31	Upper body accelerations during level walking in transtibial amputees. <i>Prosthetics and Orthotics International</i> , 2019, 43, 204-212.	1.0	5
32	The Association between Prefrontal Cortex Activity and Turning Behavior in People with and without Freezing of Gait. <i>Neuroscience</i> , 2019, 416, 168-176.	2.3	33
33	Upper limb joint kinematics using wearable magnetic and inertial measurement units: an anatomical calibration procedure based on bony landmark identification. <i>Scientific Reports</i> , 2019, 9, 14449.	3.3	25
34	A wearable gait analysis protocol to support the choice of the appropriate ankle-foot orthosis: A comparative assessment in children with Cerebral Palsy. <i>Clinical Biomechanics</i> , 2019, 70, 177-185.	1.2	10
35	How do different movement references influence ERP related to gait initiation? A comparative methodsâ€™ assessment. <i>Journal of Neuroscience Methods</i> , 2019, 311, 95-101.	2.5	3
36	Anaerobic capacity assessment in elite swimmers through inertial sensors. <i>Physiological Measurement</i> , 2019, 40, 064003.	2.1	10

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37	Gait Quality Assessment in Survivors from Severe Traumatic Brain Injury: An Instrumented Approach Based on Inertial Sensors. <i>Sensors</i> , 2019, 19, 5315.	3.8	22
38	A hitchhiker's guide to assessing young people's motor competence: Deciding what method to use. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, 311-318.	1.3	72
39	Age-related changes in upper body contribution to braking forward locomotion in women. <i>Gait and Posture</i> , 2019, 68, 81-87.	1.4	6
40	Dynamic balance assessment during gait in children with Down and Prader-Willi syndromes using inertial sensors. <i>Human Movement Science</i> , 2019, 63, 53-61.	1.4	18
41	Gait phase proportions in different locomotion tasks: The pivot role of golden ratio. <i>Neuroscience Letters</i> , 2019, 699, 127-133.	2.1	14
42	The iFST: An instrumented version of the Fukuda Stepping Test for balance assessment. <i>Gait and Posture</i> , 2018, 60, 203-208.	1.4	23
43	Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2018, , 17-45.		4
44	When Children's Perceived and Actual Motor Competence Mismatch: Sport Participation and Gender Differences. <i>Journal of Motor Learning and Development</i> , 2018, 6, S440-S460.	0.4	42
45	Mechanisms of head stability during gait initiation in young and older women: A neuro-mechanical analysis. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 103-110.	1.7	24
46	The association between prefrontal cortex activity and turning behaviors in people with and without freezing of gait. <i>Gait and Posture</i> , 2018, 66, S2-S3.	1.4	0
47	How different movement references influence cortical potentials related to step initiation? A comparative methods' assessment. <i>Gait and Posture</i> , 2018, 66, S33-S34.	1.4	0
48	A full-body 3D reconstruction of yoga poses through inertial sensing. <i>Gait and Posture</i> , 2018, 66, S24.	1.4	1
49	Usefulness of Magnetoinertial Wearable Devices in Neurorehabilitation of Children with Cerebral Palsy. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-7.	1.1	11
50	Vestibular rehabilitation training in patients with subacute stroke: A preliminary randomized controlled trial. <i>NeuroRehabilitation</i> , 2018, 43, 247-254.	1.3	35
51	Trends Supporting the In-Field Use of Wearable Inertial Sensors for Sport Performance Evaluation: A Systematic Review. <i>Sensors</i> , 2018, 18, 873.	3.8	311
52	Overcoming the limitations of the Harmonic Ratio for the reliable assessment of gait symmetry. <i>Journal of Biomechanics</i> , 2017, 53, 84-89.	2.1	65
53	The instrumented Fukuda Stepping Test: Quantifying balance impairment in patients with sub-acute stroke. <i>Gait and Posture</i> , 2017, 57, 11-12.	1.4	1
54	Upper body accelerations during planned gait termination in young and older women. <i>Journal of Biomechanics</i> , 2017, 65, 138-144.	2.1	7

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55	Multi-sensor assessment of dynamic balance during gait in patients with subacute stroke. <i>Journal of Biomechanics</i> , 2017, 61, 208-215.	2.1	42
56	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.	1.4	82
57	Methodological factors affecting joint moments estimation in clinical gait analysis: a systematic review. <i>BioMedical Engineering OnLine</i> , 2017, 16, 106.	2.7	53
58	Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2017, , 1-29.		3
59	Smooth pursuits decrease balance control during locomotion in young and older healthy females. <i>Experimental Brain Research</i> , 2017, 235, 2661-2668.	1.5	3
60	Multilevel Upper Body Movement Control during Gait in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2016, 11, e0151792.	2.5	25
61	Assessing the Performance of Sensor Fusion Methods: Application to Magnetic-Inertial-Based Human Body Tracking. <i>Sensors</i> , 2016, 16, 153.	3.8	22
62	Gait stability assessment in Down and Prader-Willi syndrome children using inertial sensors. <i>Gait and Posture</i> , 2016, 49, S16.	1.4	4
63	Use of sensor-based gait quality indices to assess physical rehabilitation programs in Parkinson's disease. <i>Gait and Posture</i> , 2016, 49, S17-S18.	1.4	0
64	Quantitative assessment of developmental levels in overarm throwing using wearable inertial sensing technology. <i>Journal of Sports Sciences</i> , 2016, 34, 1759-1765.	2.0	17
65	How Angular Velocity Features and Different Gyroscope Noise Types Interact and Determine Orientation Estimation Accuracy. <i>Sensors</i> , 2015, 15, 23983-24001.	3.8	44
66	Wheelchair Propulsion Biomechanics in Junior Basketball Players: A Method for the Evaluation of the Efficacy of a Specific Training Program. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	34
67	Wearable inertial sensors in swimming motion analysis: a systematic review. <i>Journal of Sports Sciences</i> , 2015, 33, 732-745.	2.0	104
68	Estimating Orientation Using Magnetic and Inertial Sensors and Different Sensor Fusion Approaches: Accuracy Assessment in Manual and Locomotion Tasks. <i>Sensors</i> , 2014, 14, 18625-18649.	3.8	202
69	Neuromechanics of repeated stepping with external loading in young and older women. <i>European Journal of Applied Physiology</i> , 2014, 114, 983-994.	2.5	9
70	Cognitively challenging physical activity benefits executive function in overweight children. <i>Journal of Sports Sciences</i> , 2014, 32, 201-211.	2.0	134
71	Effects of task complexity on rhythmic reproduction performance in adults. <i>Human Movement Science</i> , 2013, 32, 203-213.	1.4	12
72	Assessing locomotor skills development in childhood using wearable inertial sensor devices: the running paradigm. <i>Gait and Posture</i> , 2013, 37, 570-574.	1.4	26

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73	Searching for cognitively optimal challenge point in physical activity for children with typical and atypical motor development. <i>Mental Health and Physical Activity</i> , 2013, 6, 172-180.	1.8	76
74	Association between Physical Activity Levels and Physiological Factors Underlying Mobility in Young, Middle-Aged and Older Individuals Living in a City District. <i>PLoS ONE</i> , 2013, 8, e74227.	2.5	32
75	Assessing Hopping Developmental Level in Childhood Using Wearable Inertial Sensor Devices. <i>Motor Control</i> , 2012, 16, 317-328.	0.6	25
76	Neuromechanical evidence of improved neuromuscular control around knee joint in volleyball players. <i>European Journal of Applied Physiology</i> , 2010, 108, 443-450.	2.5	16
77	Automatic detection of surface EMG activation timing using a wavelet transform based method. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 767-772.	1.7	67
78	Association between physical activity level and mobility in individuals living in a city district: A pilot study. <i>Gait and Posture</i> , 2009, 30, S69.	1.4	0
79	Anatomical frame identification and reconstruction for repeatable lower limb joint kinematics estimates. <i>Journal of Biomechanics</i> , 2008, 41, 2219-2226.	2.1	27
80	A neurofuzzy inference system based on biomechanical features for the evaluation of the effects of physical training. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 11-17.	1.6	3
81	Enhanced anatomical calibration in human movement analysis. <i>Gait and Posture</i> , 2007, 26, 179-185.	1.4	24
82	Propagation of the hip joint centre location error to the estimate of femur vs pelvis orientation using a constrained or an unconstrained approach. <i>Journal of Biomechanics</i> , 2007, 40, 1228-1234.	2.1	22
83	Extraction of information on elder motor ability from clinical and biomechanical data through data mining. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 88, 85-94.	4.7	6
84	An optimized protocol for hip joint centre determination using the functional method. <i>Journal of Biomechanics</i> , 2006, 39, 1096-1106.	2.1	218
85	Musculoskeletal system modelling for the evaluation of motor disability. <i>Theoretical Issues in Ergonomics Science</i> , 2005, 6, 319-324.	1.8	0
86	Knowledge discovery in databases of biomechanical variables: application to the sit to stand motor task. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2004, 1, 7.	4.6	6
87	Improving detection of muscle activation intervals. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2001, 20, 38-46.	0.8	73