

Marco Rabuffetti

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

3,726
citations

172457
29
h-index

138484
58
g-index

103
all docs

103
docs citations

103
times ranked

4049
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Stabilization after postural transitions in the elderly: Experimental study on community-dwelling subjects and nursing home residents. <i>Gait and Posture</i> , 2022, 91, 105-110. | 1.4 | 3 |
| 2 | Gait disorders in CKD patients: muscle wasting or cognitive impairment? A cross-sectional pilot study to investigate gait signatures in Stage 1–5 CKD patients. <i>BMC Nephrology</i> , 2022, 23, 72. | 1.8 | 4 |
| 3 | Smoothness of movement in idiopathic cervical dystonia. <i>Scientific Reports</i> , 2022, 12, 5090. | 3.3 | 6 |
| 4 | Physical activity in non-disabled people with early multiple sclerosis: A multicenter cross-sectional study. <i>Multiple Sclerosis and Related Disorders</i> , 2022, 64, 103941. | 2.0 | 5 |
| 5 | Drawing lines and circles in Parkinson's Disease: The lateralized symptoms interfere with the movements of the unaffected hand. <i>Neuropsychologia</i> , 2021, 151, 107718. | 1.6 | 1 |
| 6 | Structural insights into the desymmetrization of bulky 1,2-dicarbonyls through enzymatic monoreduction. <i>Bioorganic Chemistry</i> , 2021, 108, 104644. | 4.1 | 6 |
| 7 | Actigraphic Measurement of the Upper Limbs for the Prediction of Ischemic Stroke Prognosis: An Observational Study. <i>Sensors</i> , 2021, 21, 2479. | 3.8 | 7 |
| 8 | Quantitative Assessment of Motor Neglect. <i>Stroke</i> , 2021, 52, 1618-1627. | 2.0 | 10 |
| 9 | Strategies for maintaining dynamic balance in persons with neurological disorders during overground walking. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 1079-1087. | 1.8 | 11 |
| 10 | Signatures of Gait Movement Variability in CKD Patients Scheduled for Hemodialysis Indicate Pathological Performance Before and After Hemodialysis: A Prospective, Observational Study. <i>Frontiers in Medicine</i> , 2021, 8, 702029. | 2.6 | 4 |
| 11 | Automated scoring for a Tablet-based Rey Figure copy task differentiates constructional, organisational, and motor abilities. <i>Scientific Reports</i> , 2021, 11, 14895. | 3.3 | 6 |
| 12 | The Association of Fatigue With Decreasing Regularity of Locomotion During an Incremental Test in Trained and Untrained Healthy Adults. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 724791. | 4.1 | 2 |
| 13 | Assessment of Stability of MIMU Probes to Skin-Marker-Based Anatomical Reference Frames During Locomotion Tasks: Effect of Different Locations on the Lower Limb. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 721900. | 4.1 | 5 |
| 14 | Direct Electrical Stimulation of Premotor Areas: Different Effects on Hand Muscle Activity during Object Manipulation. <i>Cerebral Cortex</i> , 2020, 30, 391-405. | 2.9 | 29 |
| 15 | Stereoselective Reduction of Prochiral Cyclic 1,3-Diketones Using Different Biocatalysts. <i>Catalysis Letters</i> , 2020, 150, 1176-1185. | 2.6 | 8 |
| 16 | Conformational Studies on Two FtsZ Targeting Cyclic Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1567-1573. | 1.9 | 1 |
| 17 | Measures of dynamic balance during level walking in healthy adult subjects: Relationship with age, anthropometry and spatio-temporal gait parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 131-140. | 1.8 | 21 |
| 18 | Gait regularity assessed by wearable sensors: Comparison between accelerometer and gyroscope data for different sensor locations and walking speeds in healthy subjects. <i>Journal of Biomechanics</i> , 2020, 113, 110115. | 2.1 | 4 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | “Art, Colors, and Emotions” Treatment (ACE-t): A Pilot Study on the Efficacy of an Art-Based Intervention for People With Alzheimer’s Disease. <i>Frontiers in Psychology</i> , 2020, 11, 1467. | 2.1 | 16 |
| 20 | Synthesis of β -Glutamyl Derivatives of Sulfur-Containing Amino Acids in a Multigram Scale via a Two-Step, One-Pot Procedure. <i>MolBank</i> , 2020, 2020, M1147. | 0.5 | 2 |
| 21 | Is bimanual interference affected in the case of a central proprioceptive loss? New insight from a left-brain-damaged single-case study.. <i>Neuropsychology</i> , 2020, 34, 479-492. | 1.3 | 4 |
| 22 | Influence of drying techniques and growing location on the chemical composition of sweet pepper (<i>Capsicum annuum</i> L., var. Senise). <i>Journal of Food Biochemistry</i> , 2019, 43, e13031. | 2.9 | 12 |
| 23 | Synthesis of Ribavirin, Tecadenoson, and Cladribine by Enzymatic Transglycosylation. <i>Catalysts</i> , 2019, 9, 355. | 3.5 | 36 |
| 24 | The LAMB gait analysis protocol: Definition and experimental assessment of operator-related variability. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 342-353. | 1.8 | 16 |
| 25 | Effects of Gait Strategy and Speed on Regularity of Locomotion Assessed in Healthy Subjects Using a Multi-Sensor Method. <i>Sensors</i> , 2019, 19, 513. | 3.8 | 18 |
| 26 | How Tool-Use Shapes Body Metric Representation: Evidence From Motor Training With and Without Robotic Assistance. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 299. | 2.0 | 11 |
| 27 | Actigraphic measurement of the upper limbs movements in acute stroke patients. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 153. | 4.6 | 12 |
| 28 | Human kinematic, kinetic and EMG data during different walking and stair ascending and descending tasks. <i>Scientific Data</i> , 2019, 6, 309. | 5.3 | 70 |
| 29 | Effect of the inserted active-site-covering lid loop on the catalytic activity of a mutant <i>B. subtilis</i> β -glutamyltransferase (GCT). <i>RSC Advances</i> , 2019, 9, 34699-34709. | 3.6 | 5 |
| 30 | Body ownership increases the interference between observed and executed movements. <i>PLoS ONE</i> , 2019, 14, e0209899. | 2.5 | 50 |
| 31 | Clinical validity of novel postural stabilization experimental indices based on hyperbolic transformation. <i>Gait and Posture</i> , 2019, 67, 147-150. | 1.4 | 1 |
| 32 | Surface Plasmon Resonance as a Tool for Ligand Binding Investigation of Engineered GPR17 Receptor, a G Protein Coupled Receptor Involved in Myelination. <i>Frontiers in Chemistry</i> , 2019, 7, 910. | 3.6 | 24 |
| 33 | Component deficits of visual neglect: “Magnetic” attraction of attention vs. impaired spatial working memory. <i>Neuropsychologia</i> , 2018, 109, 52-62. | 1.6 | 26 |
| 34 | Dissociation between executed and imagined bimanual movements in autism spectrum conditions. <i>Autism Research</i> , 2018, 11, 376-384. | 3.8 | 11 |
| 35 | The Chemistry behind Tomato Quality. <i>Natural Product Communications</i> , 2018, 13, 1934578X1801300. | 0.5 | 11 |
| 36 | Electromyographic and biomechanical analysis of step negotiation in Charcot Marie Tooth subjects whose level walk is not impaired. <i>Gait and Posture</i> , 2018, 62, 497-504. | 1.4 | 6 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Counteracting Postural Perturbations Through Body Weight Shift: A Pilot Study Using a Robotic Platform in Subjects With Parkinson's Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1794-1802. | 4.9 | 6 |
| 38 | Influence of the amount of body weight support on lower limb joints' kinematics during treadmill walking at different gait speeds: Reference data on healthy adults to define trajectories for robot assistance. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 619-627. | 1.8 | 8 |
| 39 | Drawn together: When motor representations ground joint actions. Cognition, 2017, 165, 53-60. | 2.2 | 31 |
| 40 | Is lower peripheral information weighted differently as a function of step number during step climbing?. Gait and Posture, 2017, 52, 52-56. | 1.4 | 3 |
| 41 | Acute effects of direct inhibitory pressure over the biceps brachii myotendinous junction on skeletal muscle activation and force output. Journal of Electromyography and Kinesiology, 2017, 37, 25-34. | 1.7 | 4 |
| 42 | Synthesis of Adenine Nucleosides by Transglycosylation using Two Sequential Nucleoside Phosphorylase-Based Bioreactors with On-Line Reaction Monitoring by using HPLC. ChemCatChem, 2017, 9, 4614-4620. | 3.7 | 15 |
| 43 | Responsiveness of gait analysis parameters in a cohort of 71 CMT subjects. Neuromuscular Disorders, 2017, 27, 1029-1037. | 0.6 | 10 |
| 44 | SIAMOC position paper on gait analysis in clinical practice: General requirements, methods and appropriateness. Results of an Italian consensus conference. Gait and Posture, 2017, 58, 252-260. | 1.4 | 82 |
| 45 | Physical human-robot interaction of an active pelvis orthosis: toward ergonomic assessment of wearable robots. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 29. | 4.6 | 30 |
| 46 | Regularity assessment of cyclic human movements: An innovative method based on wearable sensors. , 2017, , . | | 0 |
| 47 | Exergames Encouraging Exploration of Hemineglected Space in Stroke Patients With Visuospatial Neglect: A Feasibility Study. JMIR Serious Games, 2017, 5, e17. | 3.1 | 18 |
| 48 | Abnormal Sense of Agency in Patients with Schizophrenia: Evidence from Bimanual Coupling Paradigm. Frontiers in Behavioral Neuroscience, 2016, 10, 43. | 2.0 | 46 |
| 49 | Development, validation and application of a 96-well enzymatic assay based on LC-ESI-MS/MS quantification for the screening of selective inhibitors against Mycobacterium tuberculosis purine nucleoside phosphorylase. Analytica Chimica Acta, 2016, 943, 89-97. | 5.4 | 9 |
| 50 | Differential actigraphy for monitoring asymmetry in upper limb motor activities. Physiological Measurement, 2016, 37, 1798-1812. | 2.1 | 28 |
| 51 | Is the acceleration of a single body point good enough to assess COM stabilization?. Gait and Posture, 2015, 42, S12-S13. | 1.4 | 0 |
| 52 | Invisible grasps: Grip interference in anosognosia for hemiplegia.. Neuropsychology, 2015, 29, 776-781. | 1.3 | 24 |
| 53 | Ergonomic assessment of an active pelvis orthosis. Gait and Posture, 2015, 42, S18-S19. | 1.4 | 1 |
| 54 | Flow-Synthesis of Nucleosides Catalyzed by an Immobilized Purine Nucleoside Phosphorylase from Aeromonas hydrophila: Integrated Systems of Reaction Control and Product Purification. Advanced Synthesis and Catalysis, 2015, 357, 2520-2528. | 4.3 | 30 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Bimanual non-congruent actions in motor neglect syndrome: a combined behavioral/fMRI study. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 541. | 2.0 | 8 |
| 56 | Bimanual coupling effects during arm immobilization and passive movements. <i>Human Movement Science</i> , 2015, 41, 114-126. | 1.4 | 7 |
| 57 | The influence of somatosensory and muscular deficits on postural stabilization: Insights from an instrumented analysis of subjects affected by different types of Charcot-Marie-Tooth disease. <i>Neuromuscular Disorders</i> , 2015, 25, 640-645. | 0.6 | 16 |
| 58 | Chemistry of Î±-mangostin. Studies on the semisynthesis of minor xanthones from <i>Garcinia mangostana</i> . <i>Natural Product Research</i> , 2015, 29, 750-755. | 1.8 | 17 |
| 59 | Substrate Specificity of a Purine Nucleoside Phosphorylase from <i>Aeromonas hydrophila</i> ; Toward 6-Substituted Purines and its Use as a Biocatalyst in the Synthesis of the Corresponding Ribonucleosides. <i>Current Organic Chemistry</i> , 2015, 19, 2220-2225. | 1.6 | 11 |
| 60 | Analysis of relative displacement between the HX wearable robotic exoskeleton and the user's hand. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 147. | 4.6 | 16 |
| 61 | Assessment of postural stabilization in three task oriented movements in people with multiple sclerosis. <i>Disability and Rehabilitation</i> , 2014, 36, 2237-2243. | 1.8 | 16 |
| 62 | Kinematic Analysis of the Upper Limb Motor Strategies in Stroke Patients as a Tool towards Advanced Neurorehabilitation Strategies: A Preliminary Study. <i>BioMed Research International</i> , 2014, 2014, 1-8. | 1.9 | 46 |
| 63 | Drawing lines while imagining circles: Neural basis of the bimanual coupling effect during motor execution and motor imagery. <i>NeuroImage</i> , 2014, 88, 100-112. | 4.2 | 30 |
| 64 | Postural stabilization and balance assessment in Charcot-Marie-Tooth 1A subjects. <i>Gait and Posture</i> , 2014, 40, 481-486. | 1.4 | 29 |
| 65 | Assessment of biofeedback rehabilitation in post-stroke patients combining fMRI and gait analysis: a case study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 53. | 4.6 | 17 |
| 66 | Executed and imagined bimanual movements: A study across different ages.. <i>Developmental Psychology</i> , 2014, 50, 1073-1080. | 1.6 | 25 |
| 67 | Changes of gait pattern in children with Charcot-Marie-Tooth disease type 1A: a 18 months follow-up study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 65. | 4.6 | 19 |
| 68 | Embodiment of an alien hand interferes with intact-hand movements. <i>Current Biology</i> , 2013, 23, R57-R58. | 3.9 | 67 |
| 69 | Temporal coupling due to illusory movements in bimanual actions: Evidence from anosognosia for hemiplegia. <i>Cortex</i> , 2013, 49, 1694-1703. | 2.4 | 31 |
| 70 | Long-Lasting Amelioration of Walking Trajectory in Neglect after Prismatic Adaptation. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 382. | 2.0 | 18 |
| 71 | â€œMovingâ€™ a paralysed hand: bimanual coupling effect in patients with anosognosia for hemiplegia. <i>Brain</i> , 2012, 135, 1486-1497. | 7.6 | 83 |
| 72 | Gait pattern classification in children with Charcot-Marie-Tooth disease type 1A. <i>Gait and Posture</i> , 2012, 35, 131-137. | 1.4 | 72 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Spatio-Temporal Features of Visual Exploration in Unilaterally Brain-Damaged Subjects with or without Neglect: Results from a Touchscreen Test. PLoS ONE, 2012, 7, e31511. | 2.5 | 33 |
| 74 | A multiple-task gait analysis approach: Kinematic, kinetic and EMG reference data for healthy young and adult subjects. Gait and Posture, 2011, 33, 6-13. | 1.4 | 290 |
| 75 | Reliability of instrumented movement analysis as outcome measure in Charcotâ€“Marieâ€“Tooth disease: Results from a multitask locomotor protocol. Gait and Posture, 2011, 34, 36-43. | 1.4 | 25 |
| 76 | Potential Role of Wearable, Ambulatory and Home Monitoring Systems for Patients with Neurodegenerative Diseases and Their Caregivers. , 2011, , . | | 3 |
| 77 | An Experimental Paradigm to Assess Postural Stabilization: No More Movement and Not Yet Posture. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 420-426. | 4.9 | 21 |
| 78 | Coordination between upper- and lower-limb movements is different during overground and treadmill walking. European Journal of Applied Physiology, 2010, 108, 71-82. | 2.5 | 43 |
| 79 | Verbal commands help the execution of endogenous movements in anarchic hand. Neuropsychological Rehabilitation, 2010, 20, 406-422. | 1.6 | 17 |
| 80 | Task-Oriented Biofeedback to Improve Gait in Individuals With Chronic Stroke: Motor Learning Approach. Neurorehabilitation and Neural Repair, 2010, 24, 478-485. | 2.9 | 81 |
| 81 | Functional resources to increase gait speed in people with stroke: Strategies adopted compared to healthy controls. Gait and Posture, 2009, 29, 355-359. | 1.4 | 77 |
| 82 | Effect of optical flow versus attentional strategy on gait in Parkinson's Disease: a study with a portable optical stimulating device. Journal of NeuroEngineering and Rehabilitation, 2008, 5, 3. | 4.6 | 16 |
| 83 | Quantitative comparison of five current protocols in gait analysis. Gait and Posture, 2008, 28, 207-216. | 1.4 | 283 |
| 84 | Does Instrumented Movement Analysis Alter, Objectively Confirm, or Not Affect Clinical Decision-making in Musicians with Focal Dystonia?. Medical Problems of Performing Artists, 2008, 23, 99-106. | 0.4 | 4 |
| 85 | Bisecting Lines with Different Tools in Right Brain Damaged Patients: The Role of Action Programming and Sensory Feedback in Modulating Spatial Remapping. Cortex, 2007, 43, 397-410. | 2.4 | 44 |
| 86 | Concepts of Motor Learning Applied to a Rehabilitation Protocol Using Biofeedback to Improve Gait in a Chronic Stroke Patient: An A-B System Study With Multiple Gait Analyses. Neurorehabilitation and Neural Repair, 2007, 21, 190-194. | 2.9 | 35 |
| 87 | Unilateral and Bilateral Subthalamic Nucleus Stimulation in Parkinson's Disease: Effects on EMG Signals of Lower Limb Muscles During Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 182-189. | 4.9 | 25 |
| 88 | Locomotor Function in the Early Stage of Parkinson's Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 543-551. | 4.9 | 129 |
| 89 | Specific Impairments of Selective Attention in Mild Alzheimerâ€™s Disease. Journal of Clinical and Experimental Neuropsychology, 2005, 27, 436-448. | 1.3 | 30 |
| 90 | Coding of far and near space during walking in neglect patients.. Neuropsychology, 2002, 16, 390-399. | 1.3 | 60 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Stair ascent and descent at different inclinations. Gait and Posture, 2002, 15, 32-44. | 1.4 | 601 |
| 92 | Method for the analysis of posture and interface pressure of car drivers. Applied Ergonomics, 2002, 33, 511-522. | 3.1 | 160 |
| 93 | Coding of far and near space during walking in neglect patients.. Neuropsychology, 2002, 16, 390-399. | 1.3 | 27 |
| 94 | Ground reaction: intrinsic and extrinsic variability assessment and related method for artefact treatment. Journal of Biomechanics, 2001, 34, 363-370. | 2.1 | 12 |
| 95 | A Methodological Approach for the Analysis of the Car Driver's Posture. , 1999, , . | | 1 |
| 96 | Are perception and action affected differently by the Titchener circles illusion?. Experimental Brain Research, 1999, 127, 95-101. | 1.5 | 168 |
| 97 | Long-term adaptation of postural control in microgravity. Experimental Brain Research, 1999, 128, 410-416. | 1.5 | 30 |
| 98 | Kinematic characteristics of standing disequilibrium: Reliability and validity of a posturographic protocol. Archives of Physical Medicine and Rehabilitation, 1999, 80, 278-287. | 0.9 | 106 |
| 99 | Comparison of three methods for estimating vertical displacement of center of mass during level walking in patients. Gait and Posture, 1996, 4, 306-314. | 1.4 | 65 |
| 100 | Accessibility Simulation and Ergonomic Evaluation for Virtual Prototyping. , 0, , . | | 1 |