# MatjaÅ¾ Zadravec

## List of Publications by Year
## in descending order

| 21 | 223 | 1040056 | 1058476 |
|---|---|---|---|
| papers | citations | 9 | 14 |
| | | h-index | g-index |

| 21 | 21 | 21 | 203 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | The Existence of Shared Muscle Synergies Underlying Perturbed and Unperturbed Gait Depends on Walking Speed. Applied Sciences (Switzerland), 2022, 12, 2135. | 2.5 | 3 |
| 2 | High-density electromyography biofeedback during robotic wrist exercises for reducing co-activation of antagonist muscles: a case report. International Journal of Rehabilitation Research, 2021, 44, 92-97. | 1.3 | 1 |
| 3 | Biomechanics of In-Stance Balancing Responses Following Outward-Directed Perturbation to the Pelvis During Very Slow Treadmill Walking Show Complex and Well-Orchestrated Reaction of Central Nervous System. Frontiers in Bioengineering and Biotechnology, 2020, 8, 884. | 4.1 | 8 |
| 4 | Centre of Pressure Estimation during Walking Using Only Inertial-Measurement Units and End-To-End Statistical Modelling. Sensors, 2020, 20, 6136. | 3.8 | 7 |
| 5 | Estimation of Muscle Co-Activations in Wrist Rehabilitation After Stroke is Sensitive to Motor Unit Distribution and Action Potential Shapes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1208-1215. | 4.9 | 12 |
| 6 | Assessment of dynamic balancing responses following perturbations during slow walking in relation to clinical outcome measures for high-functioning post-stroke subjects. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 85. | 4.6 | 13 |
| 7 | Influence of Treadmill Speed and Perturbation Intensity on Selection of Balancing Strategies during Slow Walking Perturbed in the Frontal Plane. Applied Bionics and Biomechanics, 2019, 2019, 1-14. | 1.1 | 15 |
| 8 | Emulation of hill walking and turning on Balance Assessment Robot: A preliminary study. , 2019, 2019, 7-12. | | 1 |
| 9 | Feasibility of robot-based perturbed-balance training during treadmill walking in a high-functioning chronic stroke subject: a case-control study. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 32. | 4.6 | 20 |
| 10 | A 3D Template Model for Healthy and Impaired Walking. , 2018, , . | | 5 |
| 11 | A Novel Approach to Robot-Supported Training of Symmetry, Propulsion and Balance During Walking After Stroke: A Case Study. , 2018, , . | | 1 |
| 12 | An effective balancing response to lateral perturbations at pelvis level during slow walking requires control in all three planes of motion. Journal of Biomechanics, 2017, 60, 79-90. | 2.1 | 15 |
| 13 | A novel robot-assisted training approach for improving gait symmetry after stroke. , 2017, 2017, 222-227. | | 6 |
| 14 | Comparison of dynamic balancing responses following outward lateral perturbations during walking of healthy and post-stroke subjects. Current Directions in Biomedical Engineering, 2017, 3, 11-14. | 0.4 | 0 |
| 15 | The comparison of stepping responses following perturbations applied to pelvis during overground and treadmill walking. Technology and Health Care, 2017, 25, 781-790. | 1.2 | 14 |
| 16 | A novel robot for imposing perturbations during overground walking: mechanism, control and normative stepping responses. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 55. | 4.6 | 39 |
| 17 | Sit-to-Stand Trainer: An Apparatus for Training "Normal-Like" Sit to Stand Movement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 639-649. | 4.9 | 30 |
| 18 | Learning gait by therapist demonstration for natural-like walking with the CORBYS powered orthosis. , 2015, , . | | 7 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Toward minimum effort reaching trajectories formation in robot-based rehabilitation after stroke. International Journal of Rehabilitation Research, 2014, 37, 256-266. | 1.3 | 4 |
| 20 | Development of an Apparatus for Bilateral Rhythmical Training of Arm Movement Via Linear and Elliptical Trajectories of Various Directions. Journal of Medical Devices, Transactions of the ASME, 2014, 8, . | 0.7 | 2 |
| 21 | Planar arm movement trajectory formation: An optimization based simulation study. Biocybernetics and Biomedical Engineering, 2013, 33, 106-117. | 5.9 | 20 |