# Reza Sharif-Razavian

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 22<br>papers | 230<br>citations | 1163065<br>8<br>h-index | 1058452<br>14<br>g-index |
| 23<br>all docs | 23<br>docs citations | 23<br>times ranked | 147<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | An <i>In Vitro</i> Hand Simulator for Simultaneous Control of Hand and Wrist Movements. IEEE Transactions on Biomedical Engineering, 2022, 69, 975-982. | 4.2 | 1 |
| 2 | Simulation of Stand-to-Sit Biomechanics for Robotic Exoskeletons and Prostheses With Energy Regeneration. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 455-462. | 3.2 | 20 |
| 3 | Do â€œAnatomicâ€•Distal Ulna Plating Systems Fit the Distal Ulna Without Causing Soft Tissue Impingement?. Hand, 2020, , 155894472093030. | 1.2 | 0 |
| 4 | On the Relationship Between Muscle Synergies and Redundant Degrees of Freedom in Musculoskeletal Systems. Frontiers in Computational Neuroscience, 2019, 13, 23. | 2.1 | 4 |
| 5 | Upper Extremity Rehabilitation Robots: A Survey. , 2019, , 319-353. |  | 5 |
| 6 | A Synergy-Based Motor Control Framework for the Fast Feedback Control of Musculoskeletal Systems. Journal of Biomechanical Engineering, 2019, 141, . | 1.3 | 7 |
| 7 | A modified homotopy optimization for parameter identification in dynamic systems with backlash discontinuity. Nonlinear Dynamics, 2019, 95, 57-72. | 5.2 | 7 |
| 8 | Biomechanics Imaging and Analysis. , 2019, , 488-500. |  | 11 |
| 9 | Configuration-Dependent Optimal Impedance Control of an Upper Extremity Stroke Rehabilitation Manipulandum. Frontiers in Robotics and AI, 2018, 5, 124. | 3.2 | 6 |
| 10 | Feedback Control of Functional Electrical Stimulation for 2-D Arm Reaching Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2033-2043. | 4.9 | 26 |
| 11 | Estimation of Maximum Finger Tapping Frequency Using Musculoskeletal Dynamic Simulations. Journal of Computational and Nonlinear Dynamics, 2017, 12, . | 1.2 | 9 |
| 12 | Feedback control of functional electrical stimulation for arbitrary upper extremity movements. , 2017, 2017, 1451-1456. |  | 5 |
| 13 | Nonlinear model predictive control of an upper extremity rehabilitation robot using a two-dimensional human-robot interaction model. , 2017, , . |  | 14 |
| 14 | A Neuronal Model of Central Pattern Generator to Account for Natural Motion Variation. Journal of Computational and Nonlinear Dynamics, 2016, 11, . | 1.2 | 6 |
| 15 | Predictive Simulation of Reaching Moving Targets Using Nonlinear Model Predictive Control. Frontiers in Computational Neuroscience, 2016, 10, 143. | 2.1 | 35 |
| 16 | Minimization of Muscle Fatigue as the Criterion to Solve Muscle Forces-Sharing Problem. , 2015, , . |  | 4 |
| 17 | A model-based approach to predict muscle synergies using optimization: application to feedback control. Frontiers in Computational Neuroscience, 2015, 9, 121. | 2.1 | 21 |
| 18 | A Physics-Based Musculoskeletal Driver Model to Study Steering Tasks. Journal of Computational and Nonlinear Dynamics, 2015, 10, . | 1.2 | 12 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Steering disturbance rejection using a physics-based neuromusculoskeletal driver model. Vehicle System Dynamics, 2015, 53, 1393-1415. | 3.7 | 10 |
| 20 | A Three-Dimensional Musculoskeletal Driver Model to Study Steering Tasks. , 2013, , . | | 3 |
| 21 | A battery hardware-in-the-loop setup for concurrent design and evaluation of real-time optimal HEV power management controllers. International Journal of Electric and Hybrid Vehicles, 2013, 5, 177. | 0.3 | 9 |
| 22 | Design and evaluation of a real-time fuel-optimal control system for series hybrid electric vehicles. International Journal of Electric and Hybrid Vehicles, 2012, 4, 260. | 0.3 | 12 |