

David J Reinkensmeyer

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

9,085
citations

66250

44
h-index

51423

90
g-index

124
all docs

124
docs citations

124
times ranked

6410
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Dynamic Wheelchair Armrest for Promoting Arm Exercise and Mobility After Stroke. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1829-1839. | 2.7 | 0 |
| 2 | Bimanual wheelchair propulsion by people with severe hemiparesis after stroke. Disability and Rehabilitation: Assistive Technology, 2021, 16, 49-62. | 1.3 | 3 |
| 3 | Magnetically Counting Hand Movements: Validation of a Calibration-Free Algorithm and Application to Testing the Threshold Hypothesis of Real-World Hand Use after Stroke. Sensors, 2021, 21, 1502. | 2.1 | 19 |
| 4 | Dissociating Sensorimotor Recovery and Compensation During Exoskeleton Training Following Stroke. Frontiers in Human Neuroscience, 2021, 15, 645021. | 1.0 | 9 |
| 5 | Using a bimanual lever-driven wheelchair for arm movement practice early after stroke: A pilot, randomized, controlled, single-blind trial. Clinical Rehabilitation, 2021, 35, 1577-1589. | 1.0 | 2 |
| 6 | A day in the life: a qualitative study of clinical decision-making and uptake of neurorehabilitation technology. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 121. | 2.4 | 9 |
| 7 | A Pilot Study of a Sensor Enhanced Activity Management System for Promoting Home Rehabilitation Exercise Performed during the COVID-19 Pandemic: Therapist Experience, Reimbursement, and Recommendations for Implementation. International Journal of Environmental Research and Public Health, 2021, 18, 10186. | 1.2 | 9 |
| 8 | Evaluation of an exercise-enabling control interface for powered wheelchair users: a feasibility study with Duchenne muscular dystrophy. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 142. | 2.4 | 1 |
| 9 | Effects of soccer ball inflation pressure and velocity on peak linear and rotational accelerations of ball-to-head impacts. Sports Engineering, 2020, 23, 1. | 0.5 | 8 |
| 10 | Feasibility of Wearable Sensing for In-Home Finger Rehabilitation Early After Stroke. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1363-1372. | 2.7 | 17 |
| 11 | Big Data Analytics and Sensor-Enhanced Activity Management to Improve Effectiveness and Efficiency of Outpatient Medical Rehabilitation. International Journal of Environmental Research and Public Health, 2020, 17, 748. | 1.2 | 15 |
| 12 | Breaking Proportional Recovery After Stroke. Neurorehabilitation and Neural Repair, 2019, 33, 888-901. | 1.4 | 32 |
| 13 | Development and Evaluation of MOVit: An Exercise-Enabling Interface for Driving a Powered Wheelchair. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1770-1779. | 2.7 | 2 |
| 14 | 2nd Workshop on upper-extremity assistive technology for people with Duchenne: Effectiveness and usability of arm supports Irvine, USA, 22nd-23rd January 2018. Neuromuscular Disorders, 2019, 29, 651-656. | 0.3 | 6 |
| 15 | Somatosensory system integrity explains differences in treatment response after stroke. Neurology, 2019, 92, e1098-e1108. | 1.5 | 75 |
| 16 | The Effectiveness of Protective Headgear in Attenuating Ball-to-Forehead Impacts in Water Polo. Frontiers in Sports and Active Living, 2019, 1, 2. | 0.9 | 3 |
| 17 | JNER at 15 years: analysis of the state of neuroengineering and rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 144. | 2.4 | 11 |
| 18 | Finger strength, individuation, and their interaction: Relationship to hand function and corticospinal tract injury after stroke. Clinical Neurophysiology, 2018, 129, 797-808. | 0.7 | 39 |

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|----|--|-----|-----------|
| 19 | Dissociating motor learning from recovery in exoskeleton training post-stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 89. | 2.4 | 35 |
| 20 | Design and Preliminary Testing of MOVit: a Novel Exercise-Enabling Control Interface for Powered Wheelchair Users. , 2018, , . | | 1 |
| 21 | Real-time slacking as a default mode of grip force control: implications for force minimization and personal grip force variation. <i>Journal of Neurophysiology</i> , 2018, 120, 2107-2120. | 0.9 | 10 |
| 22 | Design and experimental evaluation of yoked hand-clutching for a lever drive chair. <i>Assistive Technology</i> , 2018, 30, 281-288. | 1.2 | 6 |
| 23 | Neural circuits activated by error amplification and haptic guidance training techniques during performance of a timing-based motor task by healthy individuals. <i>Experimental Brain Research</i> , 2018, 236, 3085-3099. | 0.7 | 14 |
| 24 | Wearable sensing for rehabilitation after stroke: Bimanual jerk asymmetry encodes unique information about the variability of upper extremity recovery. , 2017, 2017, 1603-1608. | | 29 |
| 25 | A Home-Based Telerehabilitation Program for Patients With Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 923-933. | 1.4 | 111 |
| 26 | How a diverse research ecosystem has generated new rehabilitation technologies: Review of NIDILRR's Rehabilitation Engineering Research Centers. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 109. | 2.4 | 17 |
| 27 | How do strength and coordination recovery interact after stroke? A computational model for informing robotic training. , 2017, 2017, 181-186. | | 7 |
| 28 | Home-based hand rehabilitation after chronic stroke: Randomized, controlled single-blind trial comparing the MusicGlove with a conventional exercise program. <i>Journal of Rehabilitation Research and Development</i> , 2016, 53, 457-472. | 1.6 | 81 |
| 29 | Computational neurorehabilitation: modeling plasticity and learning to predict recovery. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 42. | 2.4 | 125 |
| 30 | Upper-Extremity Therapy with Spring Orthoses. , 2016, , 553-571. | | 0 |
| 31 | Designing Robots That Challenge to Optimize Motor Learning. , 2016, , 39-58. | | 15 |
| 32 | Rehabilitation and Health Care Robotics. <i>Springer Handbooks</i> , 2016, , 1685-1728. | 0.3 | 48 |
| 33 | Design of a thumb module for the FINGER rehabilitation robot. , 2016, 2016, 582-585. | | 1 |
| 34 | Use of a robotic device to measure age-related decline in finger proprioception. <i>Experimental Brain Research</i> , 2016, 234, 83-93. | 0.7 | 31 |
| 35 | Movement Anticipation and EEG: Implications for BCI-Contingent Robot Therapy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 911-919. | 2.7 | 34 |
| 36 | Robotic Rehabilitator of the Rodent Upper Extremity: A System and Method for Assessing and Training Forelimb Force Production after Neurological Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 460-467. | 1.7 | 10 |

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|----|--|-----|-----------|
| 37 | Robot-Assisted Rehabilitation Therapy: Recovery Mechanisms and Their Implications for Machine Design. <i>Biosystems and Biorobotics</i> , 2016, , 197-223. | 0.2 | 21 |
| 38 | The Badges Program: A Self-Directed Learning Guide for Residents for Conducting Research and a Successful Peer-Reviewed Publication. <i>MedEdPORTAL: the Journal of Teaching and Learning Resources</i> , 2016, 12, 10443. | 0.5 | 4 |
| 39 | Effects of robotically modulating kinematic variability on motor skill learning and motivation. <i>Journal of Neurophysiology</i> , 2015, 113, 2682-2691. | 0.9 | 44 |
| 40 | A novel device for studying weight supported, quadrupedal overground locomotion in spinal cord injured rats. <i>Journal of Neuroscience Methods</i> , 2015, 246, 134-141. | 1.3 | 8 |
| 41 | Design and Evaluation of the Kinect-Wheelchair Interface Controlled (KWIC) Smart Wheelchair for Pediatric Powered Mobility Training. <i>Assistive Technology</i> , 2015, 27, 183-192. | 1.2 | 13 |
| 42 | Machine-Based, Self-guided Home Therapy for Individuals With Severe Arm Impairment After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 395-406. | 1.4 | 37 |
| 43 | Judging complex movement performances for excellence: A principal components analysis-based technique applied to competitive diving. <i>Human Movement Science</i> , 2014, 36, 107-122. | 0.6 | 25 |
| 44 | The Manometer: A Wearable Device for Monitoring Daily Use of the Wrist and Fingers. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 1804-1812. | 3.9 | 76 |
| 45 | Feasibility of a bimanual, lever-driven wheelchair for people with severe arm impairment after stroke. , 2014, 2014, 5292-5. | | 7 |
| 46 | The variable relationship between arm and hand use: A rationale for using finger magnetometry to complement wrist accelerometry when measuring daily use of the upper extremity. , 2014, 2014, 4087-90. | | 18 |
| 47 | Time flies when you are in a groove: using entrainment to mechanical resonance to teach a desired movement distorts the perception of the movement's timing. <i>Experimental Brain Research</i> , 2014, 232, 1057-1070. | 0.7 | 5 |
| 48 | Gesture Therapy: An Upper Limb Virtual Reality-Based Motor Rehabilitation Platform. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 634-643. | 2.7 | 95 |
| 49 | Robotic Rehabilitation: Ten Critical Questions about Current Status and Future Prospects Answered by Emerging Researchers. <i>Biosystems and Biorobotics</i> , 2014, , 189-205. | 0.2 | 2 |
| 50 | Retraining and assessing hand movement after stroke using the MusicGlove: comparison with conventional hand therapy and isometric grip training. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 76. | 2.4 | 119 |
| 51 | The Resonating Arm Exerciser: design and pilot testing of a mechanically passive rehabilitation device that mimics robotic active assistance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 39. | 2.4 | 22 |
| 52 | A Standardized Approach to the Fugl-Meyer Assessment and Its Implications for Clinical Trials. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 732-741. | 1.4 | 204 |
| 53 | A crossover pilot study evaluating the functional outcomes of two different types of robotic movement training in chronic stroke survivors using the arm exoskeleton BONES. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 112. | 2.4 | 94 |
| 54 | Effort, performance, and motivation: Insights from robot-assisted training of human golf putting and rat grip strength. , 2013, 2013, 6650461. | | 6 |

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| 55 | The Manometer: A non-obtrusive wearable device for monitoring spontaneous use of the wrist and fingers. , 2013, 2013, 6650397. | | 17 |
| 56 | Comparison of Three-Dimensional, Assist-as-Needed Robotic Arm/Hand Movement Training Provided with Pneu-WREX to Conventional Tabletop Therapy After Chronic Stroke. American Journal of Physical Medicine and Rehabilitation, 2012, 91, S232-S241. | 0.7 | 83 |
| 57 | Technologies and combination therapies for enhancing movement training for people with a disability. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 17. | 2.4 | 86 |
| 58 | Personalized neuromusculoskeletal modeling to improve treatment of mobility impairments: a perspective from European research sites. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 18. | 2.4 | 60 |
| 59 | Recent trends in assistive technology for mobility. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 20. | 2.4 | 124 |
| 60 | Major trends in mobility technology research and development: Overview of the results of the NSF-WTEC European study. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 22. | 2.4 | 20 |
| 61 | Breaking It Down Is Better: Haptic Decomposition of Complex Movements Aids in Robot-Assisted Motor Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 268-275. | 2.7 | 62 |
| 62 | A computational model of use-dependent motor recovery following a stroke: Optimizing corticospinal activations via reinforcement learning can explain residual capacity and other strength recovery dynamics. Neural Networks, 2012, 29-30, 60-69. | 3.3 | 44 |
| 63 | Functional Assisted Gaming for Upper-Extremity Therapy After Stroke: Background, Evaluation, and Future Directions of the Spring Orthosis Approach. , 2012, , 327-341. | | 3 |
| 64 | Effect of visual distraction and auditory feedback on patient effort during robot-assisted movement training after stroke. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 21. | 2.4 | 93 |
| 65 | Supinator extender (SUE): A pneumatically actuated robot for forearm/wrist rehabilitation after stroke. , 2011, 2011, 1579-82. | | 44 |
| 66 | Trainer variability during step training after spinal cord injury: Implications for robotic gait-training device design. Journal of Rehabilitation Research and Development, 2011, 48, 147. | 1.6 | 22 |
| 67 | Neurorehabilitation 2036: How Might Robots and Information Technology Be Used?. Topics in Spinal Cord Injury Rehabilitation, 2011, 17, 82-85. | 0.8 | 2 |
| 68 | Robotic approaches to stroke recovery. , 2010, , 195-206. | | 2 |
| 69 | Pneumatic Control of Robots for Rehabilitation. International Journal of Robotics Research, 2010, 29, 23-38. | 5.8 | 40 |
| 70 | Manuallyâ€Assisted Versus Roboticâ€Assisted Body Weightâ€Supported Treadmill Training in Spinal Cord Injury: What Is the Role of Each?. PM and R, 2010, 2, 214-221. | 0.9 | 28 |
| 71 | Do robotic and non-robotic arm movement training drive motor recovery after stroke by a common neural mechanism? experimental evidence and a computational model. , 2009, 2009, 2439-41. | | 27 |
| 72 | Slacking by the human motor system: Computational models and implications for robotic orthoses. , 2009, 2009, 2129-32. | | 95 |

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| 73 | Can Robots Help the Learning of Skilled Actions?. Exercise and Sport Sciences Reviews, 2009, 37, 43-51. | 1.6 | 107 |
| 74 | A Randomized Controlled Trial of Gravity-Supported, Computer-Enhanced Arm Exercise for Individuals With Severe Hemiparesis. Neurorehabilitation and Neural Repair, 2009, 23, 505-514. | 1.4 | 300 |
| 75 | Review of control strategies for robotic movement training after neurologic injury. Journal of NeuroEngineering and Rehabilitation, 2009, 6, 20. | 2.4 | 887 |
| 76 | Using Sound feedback to counteract visual distractor during robot-assisted movement training. , 2009, , . | | 3 |
| 77 | A Haptic Simulator for Training the Application of Range of Motion Exercise to Premature Infants. Journal of Medical Devices, Transactions of the ASME, 2009, 3, . | 0.4 | 4 |
| 78 | Robotic assistance for upper extremity training after stroke. Studies in Health Technology and Informatics, 2009, 145, 25-39. | 0.2 | 6 |
| 79 | Feasibility of Manual Teach-and-Replay and Continuous Impedance Shaping for Robotic Locomotor Training Following Spinal Cord Injury. IEEE Transactions on Biomedical Engineering, 2008, 55, 322-334. | 2.5 | 110 |
| 80 | Optimizing Compliant, Model-Based Robotic Assistance to Promote Neurorehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 286-297. | 2.7 | 417 |
| 81 | Rehabilitation and Health Care Robotics. , 2008, , 1223-1251. | | 32 |
| 82 | Haptic Guidance Can Enhance Motor Learning of a Steering Task. Journal of Motor Behavior, 2008, 40, 545-557. | 0.5 | 133 |
| 83 | Gesture Therapy: A Vision-Based System for Arm Rehabilitation after Stroke. Communications in Computer and Information Science, 2008, , 531-540. | 0.4 | 10 |
| 84 | Motor Adaptation as a Greedy Optimization of Error and Effort. Journal of Neurophysiology, 2007, 97, 3997-4006. | 0.9 | 235 |
| 85 | "If I can't do it once, why do it a hundred times?": Connecting volition to movement success in a virtual environment motivates people to exercise the arm after stroke. , 2007, , . | | 48 |
| 86 | Real-time computer modeling of weakness following stroke optimizes robotic assistance for movement therapy. , 2007, , . | | 31 |
| 87 | A Computational Model of Human-Robot Load Sharing during Robot-Assisted Arm Movement Training after Stroke. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4019-23. | 0.5 | 27 |
| 88 | Some Key Problems for Robot-Assisted Movement Therapy Research: A Perspective from the University of California at Irvine. , 2007, , . | | 22 |
| 89 | Arm-Training with T-WREX After Chronic Stroke: Preliminary Results of a Randomized Controlled Trial. , 2007, , . | | 80 |
| 90 | Locomotor Ability in Spinal Rats Is Dependent on the Amount of Activity Imposed on the Hindlimbs during Treadmill Training. Journal of Neurotrauma, 2007, 24, 1000-1012. | 1.7 | 112 |

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| 91 | Robot-assisted hindlimb extension increases the probability of swing initiation during treadmill walking by spinal cord contused rats. <i>Journal of Neuroscience Methods</i> , 2007, 159, 66-77. | 1.3 | 12 |
| 92 | Human-robot cooperative movement training: Learning a novel sensory motor transformation during walking with robotic assistance-as-needed. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2007, 4, 8. | 2.4 | 152 |
| 93 | A Robot and Control Algorithm That Can Synchronously Assist in Naturalistic Motion During Body-Weight-Supported Gait Training Following Neurologic Injury. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007, 15, 387-400. | 2.7 | 226 |
| 94 | Motor adaptation to a small force field superimposed on a large background force. <i>Experimental Brain Research</i> , 2007, 178, 402-414. | 0.7 | 2 |
| 95 | Effect of muscle fatigue on internal model formation and retention during reaching with the arm. <i>Journal of Applied Physiology</i> , 2006, 100, 695-706. | 1.2 | 32 |
| 96 | Robot-assisted reaching exercise promotes arm movement recovery in chronic hemiparetic stroke: a randomized controlled pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2006, 3, 12. | 2.4 | 282 |
| 97 | Tools for understanding and optimizing robotic gait training. <i>Journal of Rehabilitation Research and Development</i> , 2006, 43, 657. | 1.6 | 124 |
| 98 | Automating Arm Movement Training Following Severe Stroke: Functional Exercises With Quantitative Feedback in a Gravity-Reduced Environment. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006, 14, 378-389. | 2.7 | 292 |
| 99 | Robot-assisted movement training for the stroke-impaired arm: Does it matter what the robot does?. <i>Journal of Rehabilitation Research and Development</i> , 2006, 43, 619. | 1.6 | 199 |
| 100 | Control of a Pneumatic Orthosis for Upper Extremity Stroke Rehabilitation. , 2006, 2006, 2687-93. | | 38 |
| 101 | Control of a Pneumatic Orthosis for Upper Extremity Stroke Rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , . | 0.5 | 2 |
| 102 | Hindlimb loading determines stepping quantity and quality following spinal cord transection. <i>Brain Research</i> , 2005, 1050, 180-189. | 1.1 | 81 |
| 103 | Robot-enhanced motor learning: accelerating internal model formation during locomotion by transient dynamic amplification. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2005, 13, 33-39. | 2.7 | 258 |
| 104 | A robotic device for studying rodent locomotion after spinal cord injury. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2005, 13, 497-506. | 2.7 | 35 |
| 105 | Spinal Cord-Transected Mice Learn to Step in Response to Quipazine Treatment and Robotic Training. <i>Journal of Neuroscience</i> , 2005, 25, 11738-11747. | 1.7 | 129 |
| 106 | Robotics, Motor Learning, and Neurologic Recovery. <i>Annual Review of Biomedical Engineering</i> , 2004, 6, 497-525. | 5.7 | 336 |
| 107 | Hemiparetic stroke impairs anticipatory control of arm movement. <i>Experimental Brain Research</i> , 2003, 149, 131-140. | 0.7 | 106 |
| 108 | Modeling Reaching Impairment After Stroke Using a Population Vector Model of Movement Control That Incorporates Neural Firing-Rate Variability. <i>Neural Computation</i> , 2003, 15, 2619-2642. | 1.3 | 37 |

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| 109 | Neuromotor Noise Limits Motor Performance, But Not Motor Adaptation, in Children. <i>Journal of Neurophysiology</i> , 2003, 90, 703-711. | 0.9 | 55 |
| 110 | Robotic Devices for Movement Therapy After Stroke: Current Status and Challenges to Clinical Acceptance. <i>Topics in Stroke Rehabilitation</i> , 2002, 8, 40-53. | 1.0 | 181 |
| 111 | Chapter 11 Use of robotics in assessing the adaptive capacity of the rat lumbar spinal cord. <i>Progress in Brain Research</i> , 2002, 137, 141-149. | 0.9 | 44 |
| 112 | Web-based telerehabilitation for the upper extremity after stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2002, 10, 102-108. | 2.7 | 240 |
| 113 | Alterations in reaching after stroke and their relation to movement direction and impairment severity. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 702-707. | 0.5 | 193 |
| 114 | Using robotics to teach the spinal cord to walk. <i>Brain Research Reviews</i> , 2002, 40, 267-273. | 9.1 | 62 |
| 115 | Directional control of reaching is preserved following mild/moderate stroke and stochastically constrained following severe stroke. <i>Experimental Brain Research</i> , 2002, 143, 525-530. | 0.7 | 51 |
| 116 | Retraining the injured spinal cord. <i>Journal of Physiology</i> , 2001, 533, 15-22. | 1.3 | 332 |
| 117 | Design of robot assistance for arm movement therapy following stroke. <i>Advanced Robotics</i> , 2001, 14, 625-637. | 1.1 | 47 |
| 118 | Persistence of Motor Adaptation During Constrained, Multi-Joint, Arm Movements. <i>Journal of Neurophysiology</i> , 2000, 84, 853-862. | 0.9 | 361 |
| 119 | Rehabilitators, Robots, and Guides: New Tools for Neurological Rehabilitation. , 2000, , 516-534. | | 44 |
| 120 | Assessment of Active and Passive Restraint During Guided Reaching After Chronic Brain Injury. <i>Annals of Biomedical Engineering</i> , 1999, 27, 805-814. | 1.3 | 55 |
| 121 | Robotic devices for physical rehabilitation of stroke patients: fundamental requirements, target therapeutic techniques, and preliminary designs. <i>Technology and Disability</i> , 1996, 5, 205-215. | 0.3 | 14 |
| 122 | Using Large-Scale Sensor Data to Test Factors Predictive of Perseverance in Home Movement Rehabilitation: Optimal Challenge and Steady Engagement. <i>Frontiers in Neurology</i> , 0, 13, . | 1.1 | 9 |