Rory A Cooper

List of Publications by Year
in descending order

269 papers	8,283 citations	47006 47 h-index	76900 74 g-index
283 all docs	283 docs citations	283 times ranked	3514 citing authors

#	Article	IF	Citations
1	Propulsion patterns and pushrim biomechanics in manual wheelchair propulsion. Archives of Physical Medicine and Rehabilitation, 2002, 83, 718-723.	0.9	235
2	Wheelchair pushrim kinetics: Body weight and median nerve function. Archives of Physical Medicine and Rehabilitation, 1999, 80, 910-915.	0.9	229
3	Shoulder joint kinetics and pathology in manual wheelchair users. Clinical Biomechanics, 2006, 21, 781-789.	1.2	215
4	Sensor technology for smart homes. Maturitas, 2011, 69, 131-136.	2.4	212
5	Manual wheelchair pushrim biomechanics and axle position. Archives of Physical Medicine and Rehabilitation, 2000, 81, 608-613.	0.9	187
6	How many people would benefit from a smart wheelchair?. Journal of Rehabilitation Research and Development, 2008, 45, 53-72.	1.6	181
7	The Role of Assistive Robotics in the Lives of Persons with Disability. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 509-521.	1.4	159
8	Assessing mobility characteristics and activity levels of manual wheelchair users. Journal of Rehabilitation Research and Development, 2007, 44, 561.	1.6	140
9	Pushrim forces and joint kinetics during wheelchair propulsion. Archives of Physical Medicine and Rehabilitation, 1996, 77, 856-864.	0.9	136
10	Assessing the influence of wheelchair technology on perception of participation in spinal cord injury11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1854-1858.	0.9	132
11	Intelligent walkers for the elderly: Performance and safety testing of VA-PAMAID robotic walker. Journal of Rehabilitation Research and Development, 2003, 40, 423.	1.6	118
12	Pushrim biomechanics and injury prevention in spinal cord injury: Recommendations based on CULP-SCI investigations. Journal of Rehabilitation Research and Development, 2004, 42, 9.	1.6	111
13	Shoulder magnetic resonance imaging abnormalities, wheelchair propulsion, and gender11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the authors(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1615-1620.	0.9	106
14	Assistive technology products: a position paper from the first global research, innovation, and education on assistive technology (GREAT) summit. Disability and Rehabilitation: Assistive Technology, 2018, 13, 473-485.	2.2	103
15	Shoulder Biomechanics During the Push Phase of Wheelchair Propulsion: A Multisite Study of Persons With Paraplegia. Archives of Physical Medicine and Rehabilitation, 2008, 89, 667-676.	0.9	102
16	A kinetic analysis of manual wheelchair propulsion during start-up on select indoor and outdoor surfaces. Journal of Rehabilitation Research and Development, 2005, 42, 447.	1.6	98
17	THREE-DIMENSIONAL PUSHRIM FORCES DURING TWO SPEEDS OF WHEELCHAIR PROPULSION1. American Journal of Physical Medicine and Rehabilitation, 1997, 76, 420-426.	1.4	97
18	Driving characteristics of electric-powered wheelchair users: How far, fast, and often do people drive?. Archives of Physical Medicine and Rehabilitation, 2002, 83, 250-255.	0.9	92

#	Article	IF	Citations
19	Relation between median and ulnar nerve function and wrist kinematics during wheelchair propulsion. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1141-1145.	0.9	89
20	Evaluation of a pushrim-activated, power-assisted wheelchair. Archives of Physical Medicine and Rehabilitation, 2001, 82, 702-708.	0.9	88
21	Psychosocial impact of participation in the National Veterans Wheelchair Games and Winter Sports Clinic. Disability and Rehabilitation, 2009, 31, 410-418.	1.8	82
22	Wheelchair racing sports science: A review. Journal of Rehabilitation Research and Development, 1990, 27, 295.	1.6	77
23	A perspective on intelligent devices and environments in medical rehabilitation. Medical Engineering and Physics, 2008, 30, 1387-1398.	1.7	74
24	Quantification of Activity During Wheelchair Basketball and Rugby at the National Veterans Wheelchair Games. Prosthetics and Orthotics International, 2009, 33, 210-217.	1.0	74
25	UPPER LIMB NERVE ENTRAPMENTS IN ELITE WHEELCHAIR RACERS1. American Journal of Physical Medicine and Rehabilitation, 1996, 75, 170-176.	1.4	74
26	Functional assessment and performance evaluation for assistive robotic manipulators: Literature review. Journal of Spinal Cord Medicine, 2013, 36, 273-289.	1.4	72
27	Comparison of fatigue life for 3 types of manual wheelchairs. Archives of Physical Medicine and Rehabilitation, 2001, 82, 1484-1488.	0.9	70
28	Usage of tilt-in-space, recline, and elevation seating functions in natural environment of wheelchair users. Journal of Rehabilitation Research and Development, 2008, 45, 973-984.	1.6	70
29	User assessment of manual wheelchair ride comfort and ergonomics. Archives of Physical Medicine and Rehabilitation, 2000, 81, 490-494.	0.9	69
30	Lower-limb prostheses and wheelchairs in low-income countries [An Overview]. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 12-22.	0.8	68
31	Evaluation of a Manual Wheelchair Interface to Computer Games. Neurorehabilitation and Neural Repair, 2000, 14, 21-31.	2.9	66
32	Wheelchair Repairs, Breakdown, and Adverse Consequences for People With Traumatic Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2009, 90, 2034-2038.	0.9	64
33	Performance of selected lightweight wheelchairs on ANSI/RESNA tests. Archives of Physical Medicine and Rehabilitation, 1997, 78, 1138-1144.	0.9	63
34	Preliminary Outcomes of the SmartWheel Usersâ€™ Group Database: A Proposed Framework for Clinicians to Objectively Evaluate Manual Wheelchair Propulsion. Archives of Physical Medicine and Rehabilitation, 2008, 89, 260-268.	0.9	63
35	Effect of a pushrim-activated power-assist wheelchair on the functional capabilities of persons with tetraplegia. Archives of Physical Medicine and Rehabilitation, 2005, 86, 380-386.	0.9	62
36	Demographic and socioeconomic factors associated with disparity in wheelchair customizability among people with traumatic spinal cord injury. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1859-1864.	0.9	59

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37	Biomechanics and Strength of Manual Wheelchair Users. Journal of Spinal Cord Medicine, 2005, 28, 407-414.	1.4	59
38	Engineering Better Wheelchairs to Enhance Community Participation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 438-455.	4.9	59
39	Trends and Issues in Wheelchair Technologies. Assistive Technology, 2008, 20, 61-72.	2.0	59
40	GLENOHUMERAL JOINT KINEMATICS AND KINETICS FOR THREE COORDINATE SYSTEM REPRESENTATIONS DURING WHEELCHAIR PROPULSION1. American Journal of Physical Medicine and Rehabilitation, 1999, 78, 435-446.	1.4	59
41	Impact of a pushrim-activated power-assisted wheelchair on the metabolic demands, stroke frequency, and range of motion among subjects with tetraplegia. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1865-1871.	0.9	58
42	Prosthesis and wheelchair use in veterans with lower-limb amputation. Journal of Rehabilitation Research and Development, 2009, 46, 567.	1.6	58
43	Investigating Neck Pain in Wheelchair Users. American Journal of Physical Medicine and Rehabilitation, 2003, 82, 197-202.	1.4	57
44	Shoulder kinematics and kinetics during two speeds of wheelchair propulsion. Journal of Rehabilitation Research and Development, 2002, 39, 635-49.	1.6	56
45	Comparison of virtual and real electric powered wheelchair driving using a position sensing joystick and an isometric joystick. Medical Engineering and Physics, 2002, 24, 703-708.	1.7	55
46	Increases in Wheelchair Breakdowns, Repairs, and Adverse Consequences for People with Traumatic Spinal Cord Injury. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 463-469.	1.4	55
47	Mechanical efficiency and user power requirement with a pushrim activated power assisted wheelchair. Medical Engineering and Physics, 2001, 23, 699-705.	1.7	52
48	Test-retest reliability of the functional mobility assessment (FMA): a pilot study. Disability and Rehabilitation: Assistive Technology, 2013, 8, 213-219.	2.2	52
49	Adaptive Sports Technology and Biomechanics: Wheelchairs. PM and R, 2014, 6, S31-9.	1.6	50
50	Shoulder and elbow motion during two speeds of wheelchair propulsion: a description using a local coordinate system. Spinal Cord, 1998, 36, 418-426.	1.9	49
51	Tips and falls during electric-powered wheelchair driving: effects of seatbelt use, legrests, and driving speed11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit on the author(s) or on any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1797-1802.	0.9	49
52	Joystick Control for Powered Mobility: Current State of Technology and Future Directions. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 79-86.	1.3	49
53	Evaluation of selected ultralight manual wheelchairs using ANSI/RESNA standards. Archives of Physical Medicine and Rehabilitation, 1999, 80, 462-467.	0.9	48
54	Manual Wheelchair Propulsion Patterns on Natural Surfaces During Start-Up Propulsion. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1916-1923.	0.9	46

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55	A systems approach to the modeling of racing wheelchair propulsion. Journal of Rehabilitation Research and Development, 1990, 27, 151.	1.6	45
56	The Game^{cycle}Exercise System: Comparison With Standard Ergometry. Journal of Spinal Cord Medicine, 2004, 27, 453-459.	1.4	44
57	Wheelchair Tennis Match-Play Demands: Effect of Player Rank and Result. International Journal of Sports Physiology and Performance, 2013, 8, 28-37.	2.3	44
58	SMARTWheel. Prosthetics and Orthotics International, 2009, 33, 198-209.	1.0	42
59	Engineering Manual and Electric Powered Wheelchairs. Critical Reviews in Biomedical Engineering, 1999, 27, 27-73.	0.9	42
60	Does computer game play aid in motivation of exercise and increase metabolic activity during wheelchair ergometry?. Medical Engineering and Physics, 2001, 23, 267-273.	1.7	41
61	Type and Frequency of Reported Wheelchair Repairs and Related Adverse Consequences Among People With Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1753-1760.	0.9	40
62	The Voice of the Consumer: A Survey of Veterans and Other Users of Assistive Technology. Military Medicine, 2018, 183, e518-e525.	0.8	39
63	Demographic characteristics of veterans who received wheelchairs and scooters from Veterans Health Administration. Journal of Rehabilitation Research and Development, 2006, 43, 831.	1.6	39
64	Range Of Motion And Stroke Frequency Differences Between Manual Wheelchair Propulsion And Pushrim-Activated Power-Assisted Wheelchair Propulsion. Journal of Spinal Cord Medicine, 2003, 26, 135-140.	1.4	38
65	Design Features That Affect the Maneuverability of Wheelchairs and Scooters. Archives of Physical Medicine and Rehabilitation, 2010, 91, 759-764.	0.9	38
66	Detection of physical activities using a physical activity monitor system for wheelchair users. Medical Engineering and Physics, 2015, 37, 68-76.	1.7	38
67	Development of a wheelchair maintenance training programme and questionnaire for clinicians and wheelchair users. Disability and Rehabilitation: Assistive Technology, 2017, 12, 843-851.	2.2	36
68	Seat and footrest shocks and vibrations in manual wheelchairs with and without suspension. Archives of Physical Medicine and Rehabilitation, 2003, 84, 96-102.	0.9	35
69	Integrated Control and Related Technology of Assistive Devices. Assistive Technology, 2003, 15, 89-97.	2.0	35
70	Issues in maintenance and repairs of wheelchairs: A pilot study. Journal of Rehabilitation Research and Development, 2005, 42, 853.	1.6	35
71	Durability, value, and reliability of selected electric powered wheelchairs11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 805-814.	0.9	33
72	Carrying the Torch: A Call to Build on the Progress of the Past 25 Years. Journal of Spinal Cord Medicine, 2006, 29, 5-9.	1.4	32

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73	Quantifying Wheelchair Activity of Children. American Journal of Physical Medicine and Rehabilitation, 2008, 87, 977-983.	1.4	32
74	Use Of The Independence 3000 Ibot Transporter At Home And In The Community. Journal of Spinal Cord Medicine, 2003, 26, 79-85.	1.4	31
75	Evaluation Of Selected Sidewalk Pavement Surfaces For Vibration Experienced By Users Of Manual AndPowered Wheelchairs. Journal of Spinal Cord Medicine, 2004, 27, 468-475.	1.4	31
76	Development of a consumer-driven Wheelchair Seating Discomfort Assessment Tool (WcS-DAT). International Journal of Rehabilitation Research, 2004, 27, 85-90.	1.3	30
77	Vibration exposure of individuals using wheelchairs over sidewalk surfaces. Disability and Rehabilitation, 2005, 27, 1443-1449.	1.8	30
78	Virtual Reality and Computer-Enhanced Training Applied to Wheeled Mobility: An Overview of Work in Pittsburgh. Assistive Technology, 2005, 17, 159-170.	2.0	30
79	Evaluation of the Safety and Durability of Low-Cost Nonprogrammable Electric Powered Wheelchairs. Archives of Physical Medicine and Rehabilitation, 2005, 86, 2361-2370.	0.9	30
80	Force Control Strategies While Driving Electric Powered Wheelchairs With Isometric and Movement-Sensing Joysticks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 144-150.	4.9	30
81	Satisfaction related to wheelchair use in older adults in both nursing homes and community dwelling. Disability and Rehabilitation: Assistive Technology, 2009, 4, 337-343.	2.2	30
82	Evaluation of aluminum ultralight rigid wheelchairs versus other ultralight wheelchairs using ANSI/RESNA standards. Journal of Rehabilitation Research and Development, 2010, 47, 441.	1.6	30
83	Development of a contextually appropriate, reliable and valid basic Wheelchair Service Provision Test. Disability and Rehabilitation: Assistive Technology, 2017, 12, 333-340.	2.2	30
84	Systematic review: Automated vehicles and services for people with disabilities. Neuroscience Letters, 2021, 761, 136103.	2.1	30
85	A Pilot Study on Community Usage of a Pushrim-Activated, Power-Assisted Wheelchair. Assistive Technology, 2003, 15, 113-119.	2.0	29
86	Real-time model based electrical powered wheelchair control. Medical Engineering and Physics, 2009, 31, 1244-1254.	1.7	29
87	Wheeled mobility: Factors influencing mobility and assistive technology in veterans and servicemembers with major traumatic limb loss from Vietnam war and OIF/OEF conflicts. Journal of Rehabilitation Research and Development, 2010, 47, 349.	1.6	29
88	Virtual Coach Technology for Supporting Self-Care. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 179-194.	1.3	29
89	Filter frequency selection for manual wheelchair biomechanics. Journal of Rehabilitation Research and Development, 2002, 39, 323-36.	1.6	29
90	Evaluation of selected electric-powered wheelchairs using the ANSI/RESNA standards. Archives of Physical Medicine and Rehabilitation, 2004, 85, 611-619.	0.9	28

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91	Factors Associated with Provision of Wheelchairs in Older Adults. Assistive Technology, 2012, 24, 155-167.	2.0	28
92	The future of the provision process for mobility assistive technology: a survey of providers. Disability and Rehabilitation: Assistive Technology, 2019, 14, 338-345.	2.2	28
93	Towards the development of an effective technology transfer model of wheelchairs to developing countries. Disability and Rehabilitation: Assistive Technology, 2006, 1, 103-110.	2.2	27
94	New design and development of a manual wheelchair for India. Disability and Rehabilitation, 2007, 29, 949-962.	1.8	27
95	Development of a Wheelchair Virtual Driving Environment: Trials With Subjects With Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2008, 89, 996-1003.	0.9	27
96	Development and evaluation of a gyroscope-based wheel rotation monitor for manual wheelchair users. Journal of Spinal Cord Medicine, 2013, 36, 347-356.	1.4	27
97	Criterion validity and accuracy of global positioning satellite and data logging devices for wheelchair tennis court movement. Journal of Spinal Cord Medicine, 2013, 36, 383-393.	1.4	27
98	Participatory design and validation of mobility enhancement robotic wheelchair. Journal of Rehabilitation Research and Development, 2015, 52, 739-750.	1.6	27
99	An Exploratory Study of Racing Wheelchair Propulsion Dynamics. Adapted Physical Activity Quarterly, 1990, 7, 74-85.	0.8	26
100	Braking electric-powered wheelchairs: Effect of braking method, seatbelt, and legrests. Archives of Physical Medicine and Rehabilitation, 1998, 79, 1244-1249.	0.9	26
101	Design and User Evaluation of a Wheelchair Mounted Robotic Assisted Transfer Device. BioMed Research International, 2015, 2015, 1-9.	1.9	26
102	Multisite comparison of wheelchair propulsion kinetics in persons with paraplegia. Journal of Rehabilitation Research and Development, 2007, 44, 449.	1.6	26
103	Distribution and cost of wheelchairs and scooters provided by Veterans Health Administration. Journal of Rehabilitation Research and Development, 2007, 44, 581.	1.6	26
104	Test-Retest Reliability, Internal Item Consistency, and Concurrent Validity of the Wheelchair Seating Discomfort Assessment Tool. Assistive Technology, 2005, 17, 98-107.	2.0	25
105	Biomechanical Analysis of Functional Electrical Stimulation on Trunk Musculature During Wheelchair Propulsion. Neurorehabilitation and Neural Repair, 2009, 23, 717-725.	2.9	25
106	Personal Mobility and Manipulation Applianceâ€"Design, Development, and Initial Testing. Proceedings of the IEEE, 2012, 100, 2505-2511.	21.3	25
107	Assessment of wheelchair driving performance in a virtual reality-based simulator. Journal of Spinal Cord Medicine, 2013, 36, 322-332.	1.4	25
108	Advancements in Power Wheelchair Joystick Technology: Effects of Isometric Joysticks and Signal Conditioning on Driving Performance. American Journal of Physical Medicine and Rehabilitation, 2006, 85, 631-639.	1.4	24

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109	A Preliminary Study on the Impact of Pushrim-Activated Power-Assist Wheelchairs Among Individuals with Tetraplegia. American Journal of Physical Medicine and Rehabilitation, 2008, 87, 821-829.	1.4	24
110	Manual wheelchair-related mobility characteristics of older adults in nursing homes. Disability and Rehabilitation: Assistive Technology, 2010, 5, 428-437.	2.2	24
111	Quality-of-Life Technology for People with Spinal Cord Injuries. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 1-13.	1.3	24
112	Step-Climbing Power Wheelchairs: A Literature Review. Topics in Spinal Cord Injury Rehabilitation, 2017, 23, 98-109.	1.8	24
113	Title is missing!. Journal of Rehabilitation Research and Development, 2008, 45, 1251.	1.6	24
114	A perspective on the ultralight wheelchair revolution. Technology and Disability, 1996, 5, 383-392.	0.6	23
115	Three-Dimensional Kinematic Analysis and Physiologic Assessment of Racing Wheelchair Propulsion. Adapted Physical Activity Quarterly, 1998, 15, 1-14.	0.8	23
116	The Relationship Between Wheelchair Mobility Patterns and Community Participation Among Individuals With Spinal Cord Injury. Assistive Technology, 2011, 23, 177-183.	2.0	23
117	Stakeholder perspectives on research and development priorities for mobility assistive-technology: a literature review. Disability and Rehabilitation: Assistive Technology, 2021, 16, 362-376.	2.2	23
118	Person transfer assist systems: a literature review. Disability and Rehabilitation: Assistive Technology, 2021, 16, 270-279.	2.2	23
119	Upper Limb Strength in Individuals With Spinal Cord Injury Who Use Manual Wheelchairs. Journal of Spinal Cord Medicine, 2005, 28, 26-32.	1.4	22
120	A Heuristic Approach to Overcome Architectural Barriers Using a Robotic Wheelchair. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1846-1854.	4.9	21
121	Fatigue testing of selected suspension manual wheelchairs using ANSI/RESNA standards. Archives of Physical Medicine and Rehabilitation, 2005, 86, 123-129.	0.9	20
122	Current State of Mobility Technology Provision in Less-Resourced Countries. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 221-242.	1.3	20
123	Rehabilitation of People with Lower-Limb Amputations. Current Physical Medicine and Rehabilitation Reports, 2014, 2, 263-272.	0.8	20
124	Postural changes with aging in tetraplegia: Effects on life satisfaction and pain. Archives of Physical Medicine and Rehabilitation, 1998, 79, 1577-1581.	0.9	19
125	Development and qualitative assessment of the GAME/sup Cycle/ exercise system. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 83-90.	4.9	19
126	Development of an advanced mobile base for personal mobility and manipulation appliance generation II robotic wheelchair. Journal of Spinal Cord Medicine, 2013, 36, 333-346.	1.4	19

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127	Stability analysis of electrical powered wheelchair-mounted robotic-assisted transfer device. Journal of Rehabilitation Research and Development, 2014, 51, 761-774.	1.6	19
128	Evaluating the usability of a smartphone virtual seating coach application for powered wheelchair users. Medical Engineering and Physics, 2016, 38, 569-575.	1.7	19
129	Estimation of Energy Expenditure for Wheelchair Users Using a Physical Activity Monitoring System. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1146-1153.e1.	0.9	19
130	Design, development and testing of a low-cost electric powered wheelchair for India. Disability and Rehabilitation: Assistive Technology, 2009, 4, 42-57.	2.2	18
131	A Participatory Approach to Develop the Power Mobility Screening Tool and the Power Mobility Clinical Driving Assessment Tool. BioMed Research International, 2014, 2014, 1-15.	1.9	18
132	Design and evaluation of a seat orientation controller during uneven terrain driving. Medical Engineering and Physics, 2016, 38, 241-247.	1.7	18
133	Evaluation of Pushrim-Activated Power-Assisted Wheelchairs Using ANSI/RESNA Standards. Archives of Physical Medicine and Rehabilitation, 2008, 89, 1191-1198.	0.9	17
134	Performance evaluation of The Personal Mobility and Manipulation Appliance (PerMMA). Medical Engineering and Physics, 2013, 35, 1613-1619.	1.7	17
135	Evaluation of lightweight wheelchairs using ANSI/RESNA testing standards. Journal of Rehabilitation Research and Development, 2013, 50, 1373-1390.	1.6	17
136	Innovation in Transfer Assist Technologies for Persons with Severe Disabilities and Their Caregivers. IEEE Potentials, 2017, 36, 34-41.	0.3	17
137	Rehabilitation Engineering: A perspective on the past 40-years and thoughts for the future. Medical Engineering and Physics, 2019, 72, 3-12.	1.7	17
138	Training Practices of Athletes Who Participated in the National Wheelchair Athletic Association Training Camps. Adapted Physical Activity Quarterly, 1992, 9, 249-260.	0.8	16
139	Wheelchairs and seating: Issues and practice. Technology and Disability, 1996, 5, 3-16.	0.6	16
140	A sports wheelchair for low-income countries. Disability and Rehabilitation, 2007, 29, 963-967.	1.8	16
141	Relationship between wheelchair durability and wheelchair type and years of test. Disability and Rehabilitation: Assistive Technology, 2010, 5, 318-322.	2.2	16
142	Technology to improve sports performance in wheelchair sports. Sports Technology, 2012, 5, 4-19.	0.4	16
143	Immediate Biomechanical Implications of Transfer Component Skills Training on Independent Wheelchair Transfers. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1785-1792.	0.9	16
144	Kinematics and Stability Analysis of a Novel Power Wheelchair When Traversing Architectural Barriers. Topics in Spinal Cord Injury Rehabilitation, 2017, 23, 110-119.	1.8	16

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145	Full-participation of students with physical disabilities in science and engineering laboratories. Disability and Rehabilitation: Assistive Technology, 2018, 13, 186-193.	2.2	16
146	Usability Evaluation of a Novel Robotic Power Wheelchair for Indoor and Outdoor Navigation. Archives of Physical Medicine and Rehabilitation, 2019, 100, 627-637.	0.9	16
147	Further Development of a Robotic-Assisted Transfer Device. Topics in Spinal Cord Injury Rehabilitation, 2017, 23, 140-146.	1.8	16
148	Wheelchair Standards: It's All About Quality Assurance and Evidence-based Practice. Journal of Spinal Cord Medicine, 2006, 29, 93-94.	1.4	15
149	Investigation of the Performance of an Ergonomic Handrim as a Pain-Relieving Intervention for Manual Wheelchair Users. Assistive Technology, 2006, 18, 123-145.	2.0	15
150	Guest Editorial: Wheelchair research progress, perspectives, and transformation. Journal of Rehabilitation Research and Development, 2012, 49, 1.	1.6	15
151	Assistive Technology in Rehabilitation: Improving Impact Through Policy. Rehabilitation Research Policy and Education, 2012, 26, 19-32.	0.4	15
152	Comparing the Activity Profiles of Wheelchair Rugby Using a Miniaturised Data Logger and Radio-Frequency Tracking System. BioMed Research International, 2014, 2014, 1-8.	1.9	15
153	Assessment of Usability and Task Load Demand Using a Robot-Assisted Transfer Device Compared With a Hoyer Advance for Dependent Wheelchair Transfers. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 729-734.	1.4	15
154	Reflections on recovery, rehabilitation and reintegration of injured service members and veterans from a bio-psychosocial-spiritual perspective. Canadian Journal of Surgery, 2018, 61, S219-S231.	1.2	15
155	The contribution of selected anthropometric and physiological variables to 10K performance of wheelchair racers: A preliminary study. Journal of Rehabilitation Research and Development, 1992, 29, 29.	1.6	15
156	Use of the INDEPENDENCE 3000 IBOTâ„¢ transporter at home and in the community: A case report. Disability and Rehabilitation: Assistive Technology, 2006, 1, 111-117.	2.2	14
157	Design of a custom racing hand-cycle: Review and analysis. Disability and Rehabilitation: Assistive Technology, 2009, 4, 119-128.	2.2	14
158	Amputation-Site Soft-Tissue Restoration Using Adipose Stem Cell Therapy. Plastic and Reconstructive Surgery, 2018, 142, 1349-1352.	1.4	14
159	Design and operation verification of an automated pressure mapping and modulating seat cushion for pressure ulcer prevention. Medical Engineering and Physics, 2019, 69, 17-27.	1.7	14
160	Preliminary assessment of a prototype advanced mobility device in the work environment of veterans with spinal cord injury. NeuroRehabilitation, 2004, 19, 161-170.	1.3	13
161	Quality-of-Life Technology [A Human-Centered and Holistic Design]. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 10-11.	0.8	13
162	Manual wheeled mobility â€“ current and future developments from the human engineering research laboratories. Disability and Rehabilitation, 2010, 32, 2210-2221.	1.8	13

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163	Comparison of Virtual Wheelchair Driving Performance of People With Traumatic Brain Injury Using an Isometric and a Conventional Joystick. Archives of Physical Medicine and Rehabilitation, 2011, 92, 1298-1304.	0.9	13
164	Design and Development of the Personal Mobility and Manipulation Appliance. Assistive Technology, 2011, 23, 81-92.	2.0	13
165	Pilot study for quantifying driving characteristics during power wheelchair soccer. Journal of Rehabilitation Research and Development, 2012, 49, 75.	1.6	13
166	Pressure mapping to assess seated pressure distributions and the potential risk for skin ulceration in a population of sledge hockey players and control subjects. Disability and Rehabilitation: Assistive Technology, 2013, 8, 387-391.	2.2	13
167	Identifying research needs for wheelchair transfers in the built environment. Disability and Rehabilitation: Assistive Technology, 2017, 12, 121-127.	2.2	13
168	Kinematic comparison of Hybrid II test dummy to wheelchair user. Medical Engineering and Physics, 2001, 23, 239-247.	1.7	12
169	Wheelchair racing efficiency. Disability and Rehabilitation, 2003, 25, 207-212.	1.8	12
170	The Personal Mobility and Manipulation Appliance (PerMMA): A robotic wheelchair with advanced mobility and manipulation. , 2012, 2012, 3324-7.		12
171	Virtual Electric Power Wheelchair Driving Performance of Individuals with Spastic Cerebral Palsy. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 823-830.	1.4	12
172	Design and focus group evaluation of a bed-integrated weight measurement system for wheelchair users. Assistive Technology, 2016, 28, 193-201.	2.0	12
173	A Unified Method for Calculating the Center of Pressure during Wheelchair Propulsion. Annals of Biomedical Engineering, 1998, 26, 328-336.	2.5	11
174	Fatigue-life of two manual wheelchair cross-brace designs. Archives of Physical Medicine and Rehabilitation, 1999, 80, 1078-1081.	0.9	11
175	An autoregressive modeling approach to analyzing wheelchair propulsion forces. Medical Engineering and Physics, 2001, 23, 285-291.	1.7	11
176	Performance evaluation of 3D vision-based semi-autonomous control method for assistive robotic manipulator. Disability and Rehabilitation: Assistive Technology, 2018, 13, 140-145.	2.2	11
177	The International Society of Wheelchair Professionals (ISWP): A resource aiming to improve wheelchair services worldwide. British Journal of Occupational Therapy, 2018, 81, 671-672.	0.9	11
178	Manual Wheelchair Propulsion Over Cross-Sloped Surfaces: A Literature Review. Assistive Technology, 2011, 23, 42-51.	2.0	10
179	Initial development of direct interaction for a transfer robotic Arm system for caregivers. , 2013, 2013, 6650390.		10
180	Preliminary evaluation of variable compliance joystick for people with multiple sclerosis. Journal of Rehabilitation Research and Development, 2014, 51, 951-962.	1.6	10

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