Stephen Sprigle Pt

List of Publications by Year
in descending order

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72	1,360	361296	395590
papers	citations	20 h-index	33 g-index

73	73	73	921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of rolling resistance and scrub torque of manual wheelchair drive wheels and casters. Assistive Technology, 2022, 34, 91-103.	1.2	13
2	Assessment of wheeled mobility devices provided to a commercially insured population in 2017. Assistive Technology, 2022, 34, 308-315.	1.2	2
3	Validating a wheelchair in-seat activity tracker. Assistive Technology, 2022, 34, 588-598.	1.2	4
4	Estimating whole-body vibration limits of manual wheelchair mobility over common surfaces. Journal of Rehabilitation and Assistive Technologies Engineering, 2022, 9, 205566832210923.	0.6	2
5	Friction characteristics of preventative wound dressings under clinicallyâ€relevant conditions. Wound Repair and Regeneration, 2021, 29, 280-283.	1.5	5
6	An Exploratory Analysis of the Role of Adipose Characteristics in Fulltime Wheelchair Usersâ€™ Pressure Injury History. Frontiers in Bioengineering and Biotechnology, 2021, 9, 753897.	2.0	1
7	Effects of wheels and tires on high-strength lightweight wheelchair propulsion cost using a robotic wheelchair tester. Disability and Rehabilitation: Assistive Technology, 2021, , 1-11.	1.3	3
8	The influence of operator and wheelchair factors on wheelchair propulsion effort. Disability and Rehabilitation: Assistive Technology, 2020, 15, 328-335.	1.3	9
9	Developing a process for assessing equivalency of wheelchair cushion pressure redistribution performance. Assistive Technology, 2020, 32, 92-99.	1.2	1
10	Does the setting matter? Observing wheelchair transfers across different environmental conditions. Assistive Technology, 2020, , 1-8.	1.2	1
11	Modeling manual wheelchair propulsion cost during straight and curvilinear trajectories. PLoS ONE, 2020, 15, e0234742.	1.1	12
12	Pressure Ulcer Risk Factors in Persons with Mobility-Related Disabilities. Advances in Skin and Wound Care, 2020, 33, 146-154.	0.5	43
13	Manual wheelchair propulsion cost across different components and configurations during straight and turning maneuvers. Journal of Rehabilitation and Assistive Technologies Engineering, 2020, 7, 205566832090781.	0.6	10
14	Seated buttocks anatomy and its impact on biomechanical risk. Journal of Tissue Viability, 2020, 29, 69-75.	0.9	13
15	Modeling manual wheelchair propulsion cost during straight and curvilinear trajectories. , 2020, 15, e0234742.		0
16	Modeling manual wheelchair propulsion cost during straight and curvilinear trajectories. , 2020, 15, e0234742.		0
17	Modeling manual wheelchair propulsion cost during straight and curvilinear trajectories. , 2020, 15, e0234742.		0
18	Modeling manual wheelchair propulsion cost during straight and curvilinear trajectories. , 2020, 15, e0234742.		0

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19	Everyday use of power adjustable seat height (PASH) systems. Assistive Technology, 2019, 33, 1-9.	1.2	5
20	Pressure redistributing in-seat movement activities by persons with spinal cord injury over multiple epochs. PLoS ONE, 2019, 14, e0210978.	1.1	13
21	Visualizing Tissue Strain Under the Sacrum and Coccyx in Different Supine Postures: A Case Series. Advances in Skin and Wound Care, 2019, 32, 264-271.	0.5	7
22	Data-mining analysis of the provision of mobility devices in the United States with emphasis on complex rehab technology. Assistive Technology, 2019, 31, 141-146.	1.2	5
23	Some people move it, move itâ€¦ for pressure injury prevention. Journal of Spinal Cord Medicine, 2018, 41, 106-110.	0.7	23
24	Measuring the impact of cushion design on buttocks tissue deformation: An MRI approach. Journal of Tissue Viability, 2018, 27, 162-172.	0.9	21
25	Buttock tissue response to loading in men with spinal cord injury. PLoS ONE, 2018, 13, e0191868.	1.1	12
26	Use of a Low-Cost, Chest-Mounted Accelerometer to Evaluate Transfer Skills of Wheelchair Users During Everyday Activities: Observational Study. JMIR Rehabilitation and Assistive Technologies, 2018, 5, e11748.	1.1	8
27	Wheelchair use in ultra-lightweight wheelchair users. Disability and Rehabilitation: Assistive Technology, 2017, 12, 396-401.	1.3	16
28	How a diverse research ecosystem has generated new rehabilitation technologies: Review of NIDILRRâ€™s Rehabilitation Engineering Research Centers. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 109.	2.4	17
29	Inertial and frictional influences of instrumented wheelchair wheels. Journal of Rehabilitation and Assistive Technologies Engineering, 2016, 3, 205566831664989.	0.6	7
30	Everyday sitting behavior of full-time wheelchair users. Journal of Rehabilitation Research and Development, 2016, 53, 585-598.	1.6	42
31	Comparison of the inertial properties and forces required to initiate movement for three gait trainers. Assistive Technology, 2016, 28, 137-143.	1.2	6
32	Evaluation of wheelchair resistive forces during straight and turning trajectories across different wheelchair configurations using free-wheeling coast-down test. Journal of Rehabilitation Research and Development, 2015, 52, 763-774.	1.6	23
33	Measurement of Load Redistribution Properties of Wheelchair Cushions Using a Compliant Cushion Loading Indenter. Assistive Technology, 2015, 27, 129-135.	1.2	10
34	Impact of Mass and Weight Distribution on Manual Wheelchair Propulsion Torque. Assistive Technology, 2015, 27, 226-235.	1.2	26
35	3D anatomy and deformation of the seated buttocks. Journal of Tissue Viability, 2015, 24, 51-61.	0.9	45
36	Design of a Robotic System to Measure Propulsion Work of Over-Ground Wheelchair Maneuvers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 983-991.	2.7	10

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37	Partitioning Kinetic Energy During Freewheeling Wheelchair Maneuvers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 326-333.	2.7	28
38	Factors That Influence Changes in Wheelchair Cushion Performance Over Time. Assistive Technology, 2014, 26, 61-68.	1.2	4
39	Effects of Wheelchair Cushions and Pressure Relief Maneuvers on Ischial Interface Pressure and Blood Flow in People With Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1350-1357.	0.5	50
40	3-dimensional buttocks response to sitting: AÂcase report. Journal of Tissue Viability, 2013, 22, 12-18.	0.9	22
41	Visual Inspections of Wheelchair Cushions after Everyday Use. Assistive Technology, 2013, 25, 176-180.	1.2	1
42	Factors contributing to extended activity times during the provision of wheeled mobility devices. Disability and Rehabilitation: Assistive Technology, 2013, 8, 225-231.	1.3	9
43	mobilityRERC state of the science conference: individualizing pressure ulcer risk and prevention strategies. Disability and Rehabilitation: Assistive Technology, 2013, 8, 454-461.	1.3	6
44	Introduction to special section: state of the science on wheeled mobility and seating. Disability and Rehabilitation: Assistive Technology, 2013, 8, 445-446.	1.3	1
45	Changes in inertia and effect on turning effort across different wheelchair configurations. Journal of Rehabilitation Research and Development, 2013, 50, 1353-1362.	1.6	23
46	Spinal Cord Injury and Pressure Ulcer Prevention: Using Functional Activity in Pressure Relief. Nursing Research and Practice, 2013, 2013, 1-8.	0.4	10
47	Test method for empirically determining inertial properties of manual wheelchairs. Journal of Rehabilitation Research and Development, 2012, 49, 51.	1.6	18
48	Activities of suppliers and technicians during the provision of complex and standard wheeled mobility devices. Disability and Rehabilitation: Assistive Technology, 2012, 7, 219-225.	1.3	9
49	A robust wheelchair pressure relief monitoring system. , 2012, 2012, 6107-10.		8
50	Manual Wheelchair Use: Bouts of Mobility in Everyday Life. Rehabilitation Research and Practice, 2012, 2012, 1-7.	0.5	86
51	Iterative design and testing of a hand-held, non-contact wound measurement device. Journal of Tissue Viability, 2012, 21, 17-26.	0.9	29
52	Distinct tilting behaviours with power tilt-in-space systems. Disability and Rehabilitation: Assistive Technology, 2011, 6, 526-535.	1.3	30
53	The impact of tilting on blood flow and localized tissue loading. Journal of Tissue Viability, 2011, 20, 3-13.	0.9	24
54	Assessing evidence supporting redistribution of pressure for pressure ulcer prevention: A review. Journal of Rehabilitation Research and Development, 2011, 48, 203.	1.6	91

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55	Assessment of the ISO Impact Damping Test for Wheelchair Cushions. Assistive Technology, 2010, 22, 236-244.	1.2	8
56	On â€œImpact of Surface Type, Wheelchair Weight, and Axle Position on Wheelchair Propulsion by Novice Older Adultsâ€• Archives of Physical Medicine and Rehabilitation, 2009, 90, 1073-1075.	0.5	5
57	Characterization of Power Wheelchair Use in the Home and Community. Archives of Physical Medicine and Rehabilitation, 2008, 89, 486-491.	0.5	68
58	Effect of model design, cushion construction, and interface pressure mats on interface pressure and immersion. Journal of Rehabilitation Research and Development, 2008, 45, 875-882.	1.6	34
59	Research priorities: Seating and positioning. Disability and Rehabilitation: Assistive Technology, 2007, 2, 181-187.	1.3	5
60	Establishing seating and wheeled mobility research priorities. Disability and Rehabilitation: Assistive Technology, 2007, 2, 169-172.	1.3	10
61	Pressure-Related Deep Tissue Injury under Intact Skin and the Current Pressure Ulcer Staging Systems. Advances in Skin and Wound Care, 2005, 18, 35-42.	0.5	128
62	Development and testing of a pelvic goniometer designed to measure pelvic tilt and hip flexion. Clinical Biomechanics, 2003, 18, 462-465.	0.5	25
63	Reliability of Bench Tests of Interface Pressure. Assistive Technology, 2003, 15, 49-57.	1.2	68
64	Cost Analyses in Assistive Technology Research. Assistive Technology, 2003, 15, 16-27.	1.2	16
65	Relationships Among Cushion Type, Backrest Height, Seated Posture, And Reach Of Wheelchair Users With Spinal Cord Injury. Journal of Spinal Cord Medicine, 2003, 26, 236-243.	0.7	27
66	Development of a noninvasive measure of pelvic and hip angles in seated posture. Archives of Physical Medicine and Rehabilitation, 2002, 83, 1597-1602.	0.5	23
67	Characterizing reactive hyperemia via tissue reflectance spectroscopy in response to an ischemic load across gender, age, skin pigmentation and diabetes. Medical Engineering and Physics, 2002, 24, 651-661.	0.8	20
68	Physical Accessibility Guidelines of Consumer Product Controls. Assistive Technology, 1997, 9, 3-14.	1.2	9
69	Accelerations experienced by wheelchair users with spinalcord injury in a moving van. Technology and Disability, 1996, 5, 81-91.	0.3	3
70	Using Seat Contour Measurements during Seating Evaluations of Individuals with SCI. Assistive Technology, 1993, 5, 24-35.	1.2	17
71	Clinical Evaluation of the Hemi Wheelchair Cushion. American Journal of Occupational Therapy, 1993, 47, 141-144.	0.1	13
72	Factors affecting seat contour characteristics. Journal of Rehabilitation Research and Development, 1990, 27, 127.	1.6	17