Sonja de Groot

List of Publications by Year in descending order

95 papers	2,091 citations	304368 22 h-index	288905 40 g-index
99 all docs	99 docs citations	99 times ranked	1680 citing authors

#	Article	IF	Citations
1	Evidence-based scientific exercise guidelines for adults with spinal cord injury: an update and a new guideline. Spinal Cord, 2018, 56, 308-321.	0.9	289
2	Manual wheelchairs: Research and innovation in rehabilitation, sports, daily life and health. Medical Engineering and Physics, 2006, 28, 905-915.	0.8	121
3	Secondary health conditions in persons with spinal cord injury: A longitudinal study from one to five years post-discharge. Journal of Rehabilitation Medicine, 2013, 45, 1016-1022.	0.8	101
4	Wheelchair propulsion technique and mechanical efficiency after 3 wk of practice. Medicine and Science in Sports and Exercise, 2002, 34, 756-766.	0.2	92
5	Changes in Physical Capacity During and After Inpatient Rehabilitation in Subjects With a Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2006, 87, 741-748.	0.5	83
6	Effect of wheelchair mass, tire type and tire pressure on physical strain and wheelchair propulsion technique. Medical Engineering and Physics, 2013, 35, 1476-1482.	0.8	59
7	Validity and reliability of tests determining performance-related components of wheelchair basketball. Journal of Sports Sciences, 2012, 30, 879-887.	1.0	55
8	Prospective analysis of body mass index during and up to 5 years after discharge from inpatient spinal cord injury rehabilitation. Journal of Rehabilitation Medicine, 2010, 42, 922-928.	0.8	54
9	Shoulder complaints in wheelchair athletes: A systematic review. PLoS ONE, 2017, 12, e0188410.	1.1	53
10	Initial Skill Acquisition of Handrim Wheelchair Propulsion: A New Perspective. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 104-113.	2.7	51
11	Secondary health conditions in persons with a spinal cord injury for at least 10 years: design of a comprehensive long-term cross-sectional study. Disability and Rehabilitation, 2013, 35, 1104-1110.	0.9	50
12	Return to Work After Spinal Cord Injury. American Journal of Physical Medicine and Rehabilitation, 2009, 88, 47-56.	0.7	48
13	Comparison of muscle strength, sprint power and aerobic capacity in adults with and without cerebral palsy. Journal of Rehabilitation Medicine, 2012, 44, 932-938.	0.8	41
14	Recovery of Life Satisfaction in Persons with Spinal Cord Injury During Inpatient Rehabilitation. American Journal of Physical Medicine and Rehabilitation, 2009, 88, 887-895.	0.7	39
15	Effects of hybrid cycle and handcycle exercise on cardiovascular disease risk factors in people with spinal cord injury: A randomized controlled trial. Journal of Rehabilitation Medicine, 2015, 47, 523-530.	0.8	39
16	Inter-Individual Differences in the Initial 80 Minutes of Motor Learning of Handrim Wheelchair Propulsion. PLoS ONE, 2014, 9, e89729.	1.1	36
17	Validity and reliability of measuring activities, movement intensity and energy expenditure with the DynaPort MoveMonitor. Medical Engineering and Physics, 2013, 35, 1499-1505.	0.8	32
18	Early motor learning changes in upper-limb dynamics and shoulder complex loading during handrim wheelchair propulsion. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 26.	2.4	29

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19	Cardiovascular Function After Spinal Cord Injury. Neurorehabilitation and Neural Repair, 2014, 28, 219-229.	1.4	25
20	Trajectories in the Course of Body Mass Index After Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1083-1092.	0.5	25
21	Feasibility and reliability of measuring strength, sprint power, and aerobic capacity in athletes and nonâ€athletes with cerebral palsy. Developmental Medicine and Child Neurology, 2012, 54, 647-653.	1.1	24
22	Course of Gross Mechanical Efficiency in Handrim Wheelchair Propulsion During Rehabilitation of People With Spinal Cord Injury: A Prospective Cohort Study. Archives of Physical Medicine and Rehabilitation, 2005, 86, 1452-1460.	0.5	23
23	A reliable method for measuring proximal tibia and distal femur bone mineral density using dual-energy X-ray absorptiometry. Medical Engineering and Physics, 2014, 36, 387-390.	0.8	23
24	Effects of four-month handbike training under free-living conditions on physical fitness and health in wheelchair users. Disability and Rehabilitation, 2017, 39, 1581-1588.	0.9	23
25	Wheelchair mobility performance of elite wheelchair tennis players during four field tests: Inter-trial reliability and construct validity. PLoS ONE, 2019, 14, e0217514.	1.1	23
26	Can a 15 m-overground wheelchair sprint be used to assess wheelchair-specific anaerobic work capacity?. Medical Engineering and Physics, 2014, 36, 432-438.	0.8	22
27	Metabolic syndrome in people with a long-standing spinal cord injury: associations with physical activity and capacity. Applied Physiology, Nutrition and Metabolism, 2016, 41, 1190-1196.	0.9	22
28	Effects of variable practice on the motor learning outcomes in manual wheelchair propulsion. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 100.	2.4	20
29	Return to work five years after spinal cord injury inpatient rehabilitation: Is it related to wheelchair capacity at discharge?. Journal of Rehabilitation Medicine, 2012, 44, 73-79.	0.8	19
30	Wheelchair-specific fitness of persons with a long-term spinal cord injury: cross-sectional study on effects of time since injury and physical activity level. Disability and Rehabilitation, 2016, 38, 1180-1186.	0.9	19
31	Peak power output in handcycling of individuals with a chronic spinal cord injury: predictive modeling, validation and reference values. Disability and Rehabilitation, 2020, 42, 400-409.	0.9	19
32	Effects of Camber on the Ergonomics of Propulsion in Wheelchair Athletes. Medicine and Science in Sports and Exercise, 2011, 43, 319-326.	0.2	18
33	Low-intensity wheelchair training in inactive people with long-term spinal cord injury: A randomized controlled trial on fitness, wheelchair skill performance and physical activity levels. Journal of Rehabilitation Medicine, 2016, 48, 33-42.	0.8	18
34	Determinants of physical activity in wheelchair users with spinal cord injury or lower limb amputation: perspectives of rehabilitation professionals and wheelchair users. Disability and Rehabilitation, 2020, 42, 1934-1941.	0.9	18
35	Validity of consumer-grade activity monitor to identify manual wheelchair propulsion in standardized activities of daily living. PLoS ONE, 2018, 13, e0194864.	1.1	17
36	Effect and process evaluation of implementing standardized tests to monitor patients in spinal cord injury rehabilitation. Disability and Rehabilitation, 2010, 32, 588-597.	0.9	16

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37	Determinants of dietary behaviour in wheelchair users with spinal cord injury or lower limb amputation: Perspectives of rehabilitation professionals and wheelchair users. PLoS ONE, 2020, 15, e0228465.	1.1	16
38	Investigation of bias due to loss of participants in a Dutch multicentre prospective spinal cord injury cohort study. Journal of Rehabilitation Medicine, 2009, 41, 382-389.	0.8	15
39	Association of Shoulder Problems in Persons With Spinal Cord Injury at Discharge From Inpatient Rehabilitation With Activities and Participation 5 Years Later. Archives of Physical Medicine and Rehabilitation, 2016, 97, 84-91.	0.5	15
40	Evaluation of Manual Wheelchair Performance in Everyday Life. Topics in Spinal Cord Injury Rehabilitation, 2009, 15, 1-15.	0.8	15
41	Wheelchair exercise capacity in spinal cord injury up to five years after discharge from inpatient rehabilitation. Journal of Rehabilitation Medicine, 2013, 45, 646-652.	0.8	14
42	Effects of push-off ability and handcycle type on handcycling performance in able-bodied participants. Journal of Rehabilitation Medicine, 2018, 50, 563-568.	0.8	14
43	Relationships between internal and external handcycle training load in people with spinal cord injury training for the handbikebattle. Journal of Rehabilitation Medicine, 2018, 50, 261-268.	0.8	14
44	WHEEL-I: Development of a wheelchair propulsion laboratory for rehabilitation. Journal of Rehabilitation Medicine, 2014, 46, 493-503.	0.8	13
45	The effect of a novel square-profile hand rim on propulsion technique of wheelchair tennis players. Applied Ergonomics, 2018, 71, 38-44.	1.7	13
46	Traditional Cardiovascular Risk Factors Strongly Underestimate the 5-Year Occurrence of Cardiovascular Morbidity and Mortality in Spinal Cord Injured Individuals. Archives of Physical Medicine and Rehabilitation, 2021, 102, 27-34.	0.5	13
47	Comparison of two Borg exertion scales for monitoring exercise intensity in able-bodied participants, and those with paraplegia and tetraplegia. Spinal Cord, 2021, 59, 1162-1169.	0.9	13
48	Effects of Visual Feedback-Induced Variability on Motor Learning of Handrim Wheelchair Propulsion. PLoS ONE, 2015, 10, e0127311.	1.1	13
49	The effects of hybrid cycle training in inactive people with long-term spinal cord injury: design of a multicenter randomized controlled trial. Disability and Rehabilitation, 2013, 35, 1127-1132.	0.9	12
50	Interrater and intrarater reliability of ventilatory thresholds determined in individuals with spinal cord injury. Spinal Cord, 2019, 57, 669-678.	0.9	12
51	Associations between time since onset of injury and participation in Dutch people with long-term spinal cord injury. Spinal Cord, 2018, 56, 1134-1143.	0.9	11
52	The influence of protocol design on the identification of ventilatory thresholds and the attainment of peak physiological responses during synchronous arm crank ergometry in able-bodied participants. European Journal of Applied Physiology, 2019, 119, 2275-2286.	1.2	11
53	Low-Intensity Wheelchair Training in Inactive People with Long-Term Spinal Cord Injury. American Journal of Physical Medicine and Rehabilitation, 2015, 94, 975-986.	0.7	10
54	Prevalence of hypertension and associated risk factors in people with long-term spinal cord injury living in the Netherlands. Disability and Rehabilitation, 2017, 39, 919-927.	0.9	10

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55	Relationship between wheelchair skills scores and peak aerobic exercise capacity of manual wheelchair users with spinal cord injury: a cross-sectional study. Disability and Rehabilitation, 2020, 42, 114-121.	0.9	10
56	Evaluation of cardiovascular disease risk in individuals with chronic spinal cord injury. Spinal Cord, 2021, 59, 716-729.	0.9	10
57	Biophysical aspects of handcycling performance in rehabilitation, daily life and recreational sports; a narrative review. Disability and Rehabilitation, 2021, 43, 3461-3475.	0.9	10
58	Mobile App (WHEELS) to Promote a Healthy Lifestyle in Wheelchair Users With Spinal Cord Injury or Lower Limb Amputation: Usability and Feasibility Study. JMIR Formative Research, 2021, 5, e24909.	0.7	10
59	Metabolic rate and cardiorespiratory response during hybrid cycling versus handcycling at equal subjective exercise intensity levels in people with spinal cord injury. Journal of Spinal Cord Medicine, 2014, 37, 758-764.	0.7	9
60	Effects of functional power training on gait kinematics in children with cerebral palsy. Gait and Posture, 2019, 73, 168-172.	0.6	9
61	Changes in Quality of Life During Training for the HandbikeBattle and Associations With Cardiorespiratory Fitness. Archives of Physical Medicine and Rehabilitation, 2020, 101, 1017-1024.	0.5	9
62	Motor learning outcomes of handrim wheelchair propulsion during active spinal cord injury rehabilitation in comparison with experienced wheelchair users. Disability and Rehabilitation, 2021, 43, 1429-1442.	0.9	9
63	Wheeled Mobility. BioMed Research International, 2015, 2015, 1-2.	0.9	8
64	Effect of self-guided training for the HandbikeBattle on body composition in people with spinal cord injury. Spinal Cord Series and Cases, 2018, 4, 79.	0.3	8
65	Changes in propulsion technique and shoulder complex loading following low-intensity wheelchair practice in novices. PLoS ONE, 2018, 13, e0207291.	1.1	7
66	Sport participation after the HandbikeBattle: benefits, barriers, facilitators from the eventâ€”a follow-up survey. Spinal Cord Series and Cases, 2020, 6, 54.	0.3	7
67	Determining and Controlling External Power Output During Regular Handrim Wheelchair Propulsion. Journal of Visualized Experiments, 2020, , .	0.2	7
68	The interaction between wheelchair configuration and wheeling performance in wheelchair tennis: a narrative review. Sports Biomechanics, 2024, 23, 370-391.	0.8	7
69	Associations between meeting exercise guidelines, physical fitness, and health in people with spinal cord injury. Disability and Rehabilitation, 2023, 45, 1030-1037.	0.9	7
70	Is There an Association Between Markers of Cardiovascular Autonomic Dysfunction at Discharge From Rehabilitation and Participation 1 and 5 Years Later in Individuals With Spinal Cord Injury?. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1431-1439.	0.5	6
71	Exploring Different Technical Solutions of the Interface Between the Hand, Racket and the Rim in Wheelchair Tennis. Procedia Engineering, 2016, 147, 484-489.	1.2	6
72	Rehabilitation: mobility, exercise & sports; a critical position stand on current and future research perspectives. Disability and Rehabilitation, 2020, 43, 1-16.	0.9	6

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73	Changes in body composition during and after inpatient rehabilitation in people with recent spinal cord injury. Spinal Cord Series and Cases, 2021, 7, 88.	0.3	6
74	An Incremental Shuttle Wheel Test for Wheelchair Tennis Players. International Journal of Sports Physiology and Performance, 2016, 11, 1111-1114.	1.1	5
75	Inertial measurement units to estimate drag forces and power output during standardised wheelchair tennis coast-down and sprint tests. Sports Biomechanics, 2021, , 1-19.	0.8	5
76	The relation between sprint power and road time trial performance in elite para-cyclists. Journal of Science and Medicine in Sport, 2021, 24, 1193-1198.	0.6	5
77	Accuracy of bioelectrical impedance analysis and skinfold thickness in the assessment of body composition in people with chronic spinal cord injury. Spinal Cord, 2022, 60, 228-236.	0.9	5
78	Training for the HandbikeBattle: an explorative analysis of training load and handcycling physical capacity in recreationally active wheelchair users. Disability and Rehabilitation, 2022, 44, 2723-2732.	0.9	4
79	Exercise for people with SCI: so important but difficult to achieve. Spinal Cord, 2021, 59, 1-2.	0.9	4
80	A Scoping Review on Shoulder Injuries of Wheelchair Tennis Players: Potential Risk-Factors and Musculoskeletal Adaptations. Frontiers in Rehabilitation Sciences, 2022, 3, .	0.5	4
81	Fifth international state-of-the-art congress â€œRehabilitation: Mobility, Exercise & Sportsâ€• an overview. Disability and Rehabilitation, 2017, 39, 115-120.	0.9	3
82	Good association between sprint power and aerobic peak power during asynchronuous arm-crank exercise in people with spinal cord injury. Disability and Rehabilitation, 2021, 43, 378-385.	0.9	3
83	A Role for Trunk Function in Elite Recumbent Handcycling Performance?. Journal of Sports Sciences, 2021, 39, 2312-2321.	1.0	3
84	The Effect of External Power Output and Its Reliability on Propulsion Technique Variables in Wheelchair Users With Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 296-304.	2.7	3
85	Vascular adaptations in nonstimulated areas during hybrid cycling or handcycling in people with a spinal cord injury: a pilot study of 10 cases. Spinal Cord Series and Cases, 2021, 7, 54.	0.3	2
86	Accuracy of Heart Rate Measurement by the Fitbit Charge 2 During Wheelchair Activities in People With Spinal Cord Injury: Instrument Validation Study. JMIR Rehabilitation and Assistive Technologies, 2022, 9, e27637.	1.1	2
87	Low drop-out rates in the HandbikeBattle free-living training study: understanding the reasons for dropping out. Spinal Cord Series and Cases, 2022, 8, 20.	0.3	2
88	Association between upper-limb isometric strength and handcycling performance in elite athletes. Sports Biomechanics, 0, , 1-20.	0.8	2
89	Predictability of exercise capacity following pediatric burns: a preliminary investigation. Disability and Rehabilitation, 2021, 43, 703-712.	0.9	1
90	Association between individual wheelchair skills and fitness in community-dwelling manual wheelchair users with spinal cord injuries. Disability and Rehabilitation: Assistive Technology, 2024, 19, 60-65.	1.3	1

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91	A newly developed hand rim for wheelchair tennis improves propulsion technique and efficiency in able-bodied novices. Applied Ergonomics, 2022, 104, 103830.	1.7	1
92	Predicting resting energy expenditure in people with chronic spinal cord injury. Spinal Cord, 0, , .	0.9	1
93	Scapular kinematics during manual wheelchair propulsion in able-bodied participants. Clinical Biomechanics, 2018, 54, 54-61.	0.5	0
94	RehabMove2018: active lifestyle for people with physical disabilities; mobility, exercise & sports. Disability and Rehabilitation, 2021, 43, 1-2.	0.9	0
95	Response to Letter to the Editor on â€œTraditional Cardiovascular Risk Factors Strongly Underestimate the 5-Year Occurrence of Cardiovascular Morbidity and Mortality in Spinal Cord Injured Individualsâ€. Archives of Physical Medicine and Rehabilitation, 2021, 102, 2269-2270.	0.5	0