

# Hubertus J A Van Hedel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

2,125  
citations

24  
h-index

44  
g-index

85  
ext. papers

2,468  
ext. citations

3.2  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
80	Clinical utility of a pediatric hand exoskeleton: identifying users, practicability, and acceptance, and recommendations for design improvement.. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2022</b> , 19, 17	5.3	2
79	Validity and reliability of an electromyography-based similarity index to quantify lower extremity selective voluntary motor control in children with cerebral palsy.. <i>Clinical Neurophysiology Practice</i> , <b>2022</b> , 7, 107-114	3.8	
78	Game-based training of selective voluntary motor control in children and youth with upper motor neuron lesions: protocol for a multiple baseline design study. <i>BMC Pediatrics</i> , <b>2021</b> , 21, 505	2.6	1
77	Effectiveness of Facilitation, Arrangement of Task and Situation, (Non-)verbal Communication, and Counseling of Caregivers in Children with Neuromotor Disorders: a Systematic Review. <i>Advances in Neurodevelopmental Disorders</i> , <b>2021</b> , 5, 360	1.1	
76	Validity and reliability of an electromyography-based upper limb assessment quantifying selective voluntary motor control in children with upper motor neuron lesions. <i>Science Progress</i> , <b>2021</b> , 104, 3685042110028058	1.1	0
75	Impact of Upper Extremity Impairment and Trunk Control on Self-Care Independence in Children With Upper Motor Neuron Lesions. <i>Physical Therapy</i> , <b>2021</b> , 101,	3.3	2
74	Quantifying age-related differences in selective voluntary motor control in children and adolescents with three assessments. <i>Human Movement Science</i> , <b>2021</b> , 77, 102790	2.4	0
73	Velocity dependent measure of spasticity: Reliability in children and juveniles with neuromotor disorders. <i>Journal of Pediatric Rehabilitation Medicine</i> , <b>2021</b> , 14, 219-226	1.4	
72	An Interactive Computer Game for Improving Selective Voluntary Motor Control in Children With Upper Motor Neuron Lesions: Development and Preliminary Feasibility Study. <i>JMIR Serious Games</i> , <b>2021</b> , 9, e26028	3.4	2
71	Validity and reliability of the Selective Control of the Upper Extremity Scale in children with upper motor neuron lesions. <i>Disability and Rehabilitation</i> , <b>2021</b> , 1-7	2.4	2
70	Clinical utility of the over-ground bodyweight-supporting walking system Andago in children and youths with gait impairments. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2021</b> , 18, 29	5.3	3
69	Psychometric Properties of Lower Limb Somatosensory Function and Body Awareness Outcome Measures in Children with Upper Motor Neuron Lesions: A Systematic Review. <i>Developmental Neurorehabilitation</i> , <b>2021</b> , 1-14	1.8	
68	DO YOUTHS WITH NEUROMOTOR DISORDER AND THEIR THERAPISTS PREFER A MIXED OR VIRTUAL REALITY HEAD-MOUNTED DISPLAY?. <i>Journal of Rehabilitation Medicine Clinical Communications</i> , <b>2021</b> , 4, 1000072	0.2	1
67	Magnetic resonance imaging markers reflect cognitive outcome after rehabilitation in children with acquired brain injury. <i>European Journal of Radiology</i> , <b>2020</b> , 126, 108963	4.7	1
66	Administration of the German Pediatric Evaluation of Disability Inventory (PEDI-G) Using the Mode of Observation in Children Undergoing Inpatient Rehabilitation: A Reliability and Validity Study. <i>Physical and Occupational Therapy in Pediatrics</i> , <b>2020</b> , 40, 345-359	2.1	
65	Validity and reliability of an accelerometer-based assessgame to quantify upper limb selective voluntary motor control. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2020</b> , 17, 89	5.3	6
64	A Systematic Review of Training Methods That May Improve Selective Voluntary Motor Control in Children With Spastic Cerebral Palsy. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 572038	4.1	4

63	PEXO - A Pediatric Whole Hand Exoskeleton for Grasping Assistance in Task-Oriented Training. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2019</b> , 2019, 108-114	1.3	17
62	Robot-Assisted Gait Training for Children and Youth with Cerebral Palsy <b>2019</b> , 1-20		
61	First validation of a novel assessgame quantifying selective voluntary motor control in children with upper motor neuron lesions. <i>Scientific Reports</i> , <b>2019</b> , 9, 19972	4.9	6
60	Measuring change in gait performance of children with motor disorders: assessing the Functional Mobility Scale and the Gillette Functional Assessment Questionnaire walking scale. <i>Developmental Medicine and Child Neurology</i> , <b>2019</b> , 61, 717-724	3.3	10
59	Concurrent Validity of Two Gait Performance Measures in Children with Neuromotor Disorders. <i>Physical and Occupational Therapy in Pediatrics</i> , <b>2019</b> , 39, 181-192	2.1	3
58	Influence of trunk control and lower extremity impairments on gait capacity in children with cerebral palsy. <i>Disability and Rehabilitation</i> , <b>2018</b> , 40, 3164-3170	2.4	18
57	Roboterunterstützte Lokomotionstherapie bei Kindern in der Neuroreha. <i>Neuroreha</i> , <b>2018</b> , 10, 119-126	0.2	2
56	Selective voluntary motor control measures of the lower extremity in children with upper motor neuron lesions: a systematic review. <i>Developmental Medicine and Child Neurology</i> , <b>2017</b> , 59, 699-705	3.3	10
55	Die praktische Anwendung von Exergames und virtueller Realität in der pädiatrischen Rehabilitation. <i>Neuroreha</i> , <b>2017</b> , 09, 35-40	0.2	3
54	The Trunk Control Measurement Scale: reliability and discriminative validity in children and young people with neuromotor disorders. <i>Developmental Medicine and Child Neurology</i> , <b>2017</b> , 59, 706-712	3.3	13
53	Interrater reliability of two gait performance measures in children with neuromotor disorders across two different settings. <i>Developmental Medicine and Child Neurology</i> , <b>2017</b> , 59, 1158-1163	3.3	5
52	Hypertonia Assessment Tool. <i>Journal of Child Neurology</i> , <b>2017</b> , 32, 132-138	2.5	13
51	Reliability and Responsiveness of Upper Limb Motor Assessments for Children With Central Neuromotor Disorders: A Systematic Review. <i>Neurorehabilitation and Neural Repair</i> , <b>2016</b> , 30, 19-39	4.7	13
50	Clinical Application of Rehabilitation Technologies in Children Undergoing Neurorehabilitation <b>2016</b> , 283-308		8
49	The relevance of nerve mobility on function and activity in children with Cerebral Palsy. <i>BMC Neurology</i> , <b>2016</b> , 16, 194	3.1	3
48	Reliability and practicability of the straight leg raise test in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , <b>2016</b> , 58, 173-9	3.3	5
47	Reliability of timed walking tests and temporo-spatial gait parameters in youths with neurological gait disorders. <i>BMC Neurology</i> , <b>2016</b> , 16, 15	3.1	24
46	Construct validity and reliability of the Selective Control Assessment of the Lower Extremity in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , <b>2016</b> , 58, 167-72	3.3	28

45	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 2201-2213	5.5	39
44	Translation and construct validity of the Trunk Control Measurement Scale in children and youths with brain lesions. <i>Research in Developmental Disabilities</i> , <b>2015</b> , 45-46, 343-52	2.7	13
43	Zerebralparese: ein Update. <i>Pediatric Up2date</i> , <b>2014</b> , 09, 183-214	0.2	1
42	Measurement properties of gait-related outcomes in youth with neuromuscular diagnoses: a systematic review. <i>Physical Therapy</i> , <b>2014</b> , 94, 1067-82	3.3	28
41	Leg surface electromyography patterns in children with neuro-orthopedic disorders walking on a treadmill unassisted and assisted by a robot with and without encouragement. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2013</b> , 10, 78	5.3	23
40	Requirements for and impact of a serious game for neuro-pediatric robot-assisted gait training. <i>Research in Developmental Disabilities</i> , <b>2013</b> , 34, 3906-15	2.7	31
39	Robot-assisted and computer-enhanced therapies for children with cerebral palsy: current state and clinical implementation. <i>Seminars in Pediatric Neurology</i> , <b>2013</b> , 20, 139-45	2.9	47
38	Monitoring motor capacity changes of children during rehabilitation using body-worn sensors. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2013</b> , 10, 83	5.3	23
37	Slowed down: response time deficits in well-recovered subjects with incomplete spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2013</b> , 94, 2020-6	2.8	8
36	ChARMin: A robot for pediatric arm rehabilitation <b>2013</b> ,		7
35	Curve walking is not better than straight walking in estimating ambulation-related domains after incomplete spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2012</b> , 93, 796-801	2.8	5
34	Computer implementation of the international standards for neurological classification of spinal cord injury for consistent and efficient derivation of its subscores including handling of data from not testable segments. <i>Journal of Neurotrauma</i> , <b>2012</b> , 29, 453-61	5.4	37
33	Changes in electrical perception threshold within the first 6 months after traumatic spinal cord injury: a multicenter responsiveness study. <i>Neurorehabilitation and Neural Repair</i> , <b>2012</b> , 26, 497-506	4.7	11
32	Improvement in function after spinal cord injury: the black-box entitled rehabilitation. <i>Swiss Medical Weekly</i> , <b>2012</b> , 142, w13673	3.1	7
31	Instrument validity and reliability of a choice response time test for subjects with incomplete spinal cord injury: relationship with function. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2011</b> , 92, 1443-9	2.8	7
30	Gaze strategies for avoiding obstacles: Differences between young and elderly subjects. <i>Gait and Posture</i> , <b>2011</b> , 34, 340-6	2.6	11
29	Virtual reality for enhancement of robot-assisted gait training in children with central gait disorders. <i>Journal of Rehabilitation Medicine</i> , <b>2011</b> , 43, 493-9	3.4	74
28	Virtual realities as motivational tools for robotic assisted gait training in children: A surface electromyography study. <i>NeuroRehabilitation</i> , <b>2011</b> , 28, 401-11	2	39

27	Improving dexterity in children with cerebral palsy <b>2011</b> ,		8
26	Mismatch between investigator-determined and patient-reported independence after spinal cord injury: consequences for rehabilitation and trials. <i>Neurorehabilitation and Neural Repair</i> , <b>2011</b> , 25, 855-64	4.7	10
25	Ankle motor skill is intact in spinal cord injury, unlike stroke: implications for rehabilitation. <i>Neurology</i> , <b>2010</b> , 74, 1271-8	6.5	16
24	Enhancement of bend sensor properties as applied in a glove for use in neurorehabilitation settings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 5903-6	0.9	10
23	Rehabilitation of locomotion after spinal cord injury. <i>Restorative Neurology and Neuroscience</i> , <b>2010</b> , 28, 123-34	2.8	77
22	Validity of weekly recall ratings of average pain intensity in neck pain patients. <i>Journal of Manipulative and Physiological Therapeutics</i> , <b>2010</b> , 33, 612-7	1.3	18
21	REM sleep behavior disorder is not linked to postural instability and gait dysfunction in Parkinson. <i>Movement Disorders</i> , <b>2010</b> , 25, 1597-604	7	25
20	Difficulty of elderly SCI subjects to translate motor recovery--"body function"--into daily living activities. <i>Journal of Neurotrauma</i> , <b>2009</b> , 26, 2037-44	5.4	41
19	Conversion in ASIA impairment scale during the first year after traumatic spinal cord injury. <i>Journal of Neurotrauma</i> , <b>2009</b> , 26, 2027-36	5.4	88
18	Gait speed in relation to categories of functional ambulation after spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , <b>2009</b> , 23, 343-50	4.7	77
17	Walking during daily life can be validly and responsively assessed in subjects with a spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , <b>2009</b> , 23, 117-24	4.7	39
16	Upper extremity function in persons with tetraplegia: relationships between strength, capacity, and the spinal cord independence measure. <i>Neurorehabilitation and Neural Repair</i> , <b>2009</b> , 23, 413-21	4.7	73
15	Obstacle stepping in patients with Parkinson's disease. Complexity does influence performance. <i>Journal of Neurology</i> , <b>2009</b> , 256, 457-63	5.5	26
14	Recovery from a spinal cord injury: significance of compensation, neural plasticity, and repair. <i>Journal of Neurotrauma</i> , <b>2008</b> , 25, 677-85	5.4	239
13	Foot control in incomplete SCI: distinction between paresis and dexterity. <i>Neurological Research</i> , <b>2008</b> , 30, 52-60	2.7	16
12	Changes in corticospinal function and ankle motor control during recovery from incomplete spinal cord injury. <i>Journal of Neurotrauma</i> , <b>2008</b> , 25, 467-78	5.4	33
11	Changes in activity after a complete spinal cord injury as measured by the Spinal Cord Independence Measure II (SCIM II). <i>Neurorehabilitation and Neural Repair</i> , <b>2008</b> , 22, 145-53	4.7	52
10	Ankle paresis in incomplete spinal cord injury: relation to corticospinal conductivity and ambulatory capacity. <i>Journal of Clinical Neurophysiology</i> , <b>2008</b> , 25, 210-7	2.2	18

9	Ankle dexterity remains intact in patients with incomplete spinal cord injury in contrast to stroke patients. <i>Experimental Brain Research</i> , <b>2008</b> , 191, 353-61	2.3	16
8	Ankle dexterity is less impaired than muscle strength in incomplete spinal cord lesion. <i>Journal of Neurology</i> , <b>2008</b> , 255, 273-9	5.5	13
7	The amplitude of lower leg motor evoked potentials is a reliable measure when controlled for torque and motor task. <i>Journal of Neurology</i> , <b>2007</b> , 254, 1089-98	5.5	62
6	Assessment of walking speed and distance in subjects with an incomplete spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , <b>2007</b> , 21, 295-301	4.7	71
5	Learning a high-precision locomotor task in patients with Parkinson's disease. <i>Movement Disorders</i> , <b>2006</b> , 21, 406-11	7	19
4	Fighting for each segment: estimating the clinical value of cervical and thoracic segments in SCI. <i>Journal of Neurotrauma</i> , <b>2006</b> , 23, 1621-31	5.4	50
3	Muscle force and gait performance: relationships after spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2006</b> , 87, 1218-22	2.8	62
2	Assessing walking ability in subjects with spinal cord injury: validity and reliability of 3 walking tests. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2005</b> , 86, 190-6	2.8	332
1	Obstacle avoidance during human walking: effects of biomechanical constraints on performance. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2004</b> , 85, 972-9	2.8	13