

Hubertus J A Van Hedel

List of Publications by Citations

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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	Assessing walking ability in subjects with spinal cord injury: validity and reliability of 3 walking tests. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005 , 86, 190-6	2.8	332
79	Recovery from a spinal cord injury: significance of compensation, neural plasticity, and repair. <i>Journal of Neurotrauma</i> , 2008 , 25, 677-85	5.4	239
78	Conversion in ASIA impairment scale during the first year after traumatic spinal cord injury. <i>Journal of Neurotrauma</i> , 2009 , 26, 2027-36	5.4	88
77	Rehabilitation of locomotion after spinal cord injury. <i>Restorative Neurology and Neuroscience</i> , 2010 , 28, 123-34	2.8	77
76	Gait speed in relation to categories of functional ambulation after spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 343-50	4.7	77
75	Virtual reality for enhancement of robot-assisted gait training in children with central gait disorders. <i>Journal of Rehabilitation Medicine</i> , 2011 , 43, 493-9	3.4	74
74	Upper extremity function in persons with tetraplegia: relationships between strength, capacity, and the spinal cord independence measure. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 413-21	4.7	73
73	Assessment of walking speed and distance in subjects with an incomplete spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , 2007 , 21, 295-301	4.7	71
72	The amplitude of lower leg motor evoked potentials is a reliable measure when controlled for torque and motor task. <i>Journal of Neurology</i> , 2007 , 254, 1089-98	5.5	62
71	Muscle force and gait performance: relationships after spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006 , 87, 1218-22	2.8	62
70	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> , 2008 , 22, 145-53	4.7	52
69	Fighting for each segment: estimating the clinical value of cervical and thoracic segments in SCI. <i>Journal of Neurotrauma</i> , 2006 , 23, 1621-31	5.4	50
68	Robot-assisted and computer-enhanced therapies for children with cerebral palsy: current state and clinical implementation. <i>Seminars in Pediatric Neurology</i> , 2013 , 20, 139-45	2.9	47
67	Difficulty of elderly SCI subjects to translate motor recovery--"body function"--into daily living activities. <i>Journal of Neurotrauma</i> , 2009 , 26, 2037-44	5.4	41
66	Virtual realities as motivational tools for robotic assisted gait training in children: A surface electromyography study. <i>NeuroRehabilitation</i> , 2011 , 28, 401-11	2	39
65	Walking during daily life can be validly and responsively assessed in subjects with a spinal cord injury. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 117-24	4.7	39
64	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2201-2213	5.5	39

63	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> , 2012 , 29, 453-61	5.4	37
62	Changes in corticospinal function and ankle motor control during recovery from incomplete spinal cord injury. <i>Journal of Neurotrauma</i> , 2008 , 25, 467-78	5.4	33
61	Requirements for and impact of a serious game for neuro-pediatric robot-assisted gait training. <i>Research in Developmental Disabilities</i> , 2013 , 34, 3906-15	2.7	31
60	Measurement properties of gait-related outcomes in youth with neuromuscular diagnoses: a systematic review. <i>Physical Therapy</i> , 2014 , 94, 1067-82	3.3	28
59	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> , 2016 , 58, 167-72	3.3	28
58	Obstacle stepping in patients with Parkinson's disease. Complexity does influence performance. <i>Journal of Neurology</i> , 2009 , 256, 457-63	5.5	26
57	REM sleep behavior disorder is not linked to postural instability and gait dysfunction in Parkinson. <i>Movement Disorders</i> , 2010 , 25, 1597-604	7	25
56	Reliability of timed walking tests and temporo-spatial gait parameters in youths with neurological gait disorders. <i>BMC Neurology</i> , 2016 , 16, 15	3.1	24
55	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> , 2013 , 10, 78	5.3	23
54	Monitoring motor capacity changes of children during rehabilitation using body-worn sensors. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 83	5.3	23
53	Learning a high-precision locomotor task in patients with Parkinson's disease. <i>Movement Disorders</i> , 2006 , 21, 406-11	7	19
52	Influence of trunk control and lower extremity impairments on gait capacity in children with cerebral palsy. <i>Disability and Rehabilitation</i> , 2018 , 40, 3164-3170	2.4	18
51	Validity of weekly recall ratings of average pain intensity in neck pain patients. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2010 , 33, 612-7	1.3	18
50	Ankle paresis in incomplete spinal cord injury: relation to corticospinal conductivity and ambulatory capacity. <i>Journal of Clinical Neurophysiology</i> , 2008 , 25, 210-7	2.2	18
49	PEXO - A Pediatric Whole Hand Exoskeleton for Grasping Assistance in Task-Oriented Training. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2019 , 2019, 108-114	1.3	17
48	Ankle motor skill is intact in spinal cord injury, unlike stroke: implications for rehabilitation. <i>Neurology</i> , 2010 , 74, 1271-8	6.5	16
47	Foot control in incomplete SCI: distinction between paresis and dexterity. <i>Neurological Research</i> , 2008 , 30, 52-60	2.7	16
46	Ankle dexterity remains intact in patients with incomplete spinal cord injury in contrast to stroke patients. <i>Experimental Brain Research</i> , 2008 , 191, 353-61	2.3	16

45	Reliability and Responsiveness of Upper Limb Motor Assessments for Children With Central Neuromotor Disorders: A Systematic Review. <i>Neurorehabilitation and Neural Repair</i> , 2016 , 30, 19-39	4.7	13
44	The Trunk Control Measurement Scale: reliability and discriminative validity in children and young people with neuromotor disorders. <i>Developmental Medicine and Child Neurology</i> , 2017 , 59, 706-712	3.3	13
43	Translation and construct validity of the Trunk Control Measurement Scale in children and youths with brain lesions. <i>Research in Developmental Disabilities</i> , 2015 , 45-46, 343-52	2.7	13
42	Hypertonia Assessment Tool. <i>Journal of Child Neurology</i> , 2017 , 32, 132-138	2.5	13
41	Ankle dexterity is less impaired than muscle strength in incomplete spinal cord lesion. <i>Journal of Neurology</i> , 2008 , 255, 273-9	5.5	13
40	Obstacle avoidance during human walking: effects of biomechanical constraints on performance. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004 , 85, 972-9	2.8	13
39	Gaze strategies for avoiding obstacles: Differences between young and elderly subjects. <i>Gait and Posture</i> , 2011 , 34, 340-6	2.6	11
38	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> , 2012 , 26, 497-506	4.7	11
37	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> , 2017 , 59, 699-705	3.3	10
36	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> , 2010 , 2010, 5903-6	0.9	10
35	Mismatch between investigator-determined and patient-reported independence after spinal cord injury: consequences for rehabilitation and trials. <i>Neurorehabilitation and Neural Repair</i> , 2011 , 25, 855-64	4.7	10
34	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> , 2019 , 61, 717-724	3.3	10
33	Clinical Application of Rehabilitation Technologies in Children Undergoing Neurorehabilitation 2016 , 283-308		8
32	Slowed down: response time deficits in well-recovered subjects with incomplete spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013 , 94, 2020-6	2.8	8
31	Improving dexterity in children with cerebral palsy 2011 ,		8
30	ChARMin: A robot for pediatric arm rehabilitation 2013 ,		7
29	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> , 2011 , 92, 1443-9	2.8	7
28	Improvement in function after spinal cord injury: the black-box entitled rehabilitation. <i>Swiss Medical Weekly</i> , 2012 , 142, w13673	3.1	7

27	Validity and reliability of an accelerometer-based assessgame to quantify upper limb selective voluntary motor control. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020 , 17, 89	5.3	6
26	First validation of a novel assessgame quantifying selective voluntary motor control in children with upper motor neuron lesions. <i>Scientific Reports</i> , 2019 , 9, 19972	4.9	6
25	Reliability and practicability of the straight leg raise test in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2016 , 58, 173-9	3.3	5
24	Interrater reliability of two gait performance measures in children with neuromotor disorders across two different settings. <i>Developmental Medicine and Child Neurology</i> , 2017 , 59, 1158-1163	3.3	5
23	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> , 2012 , 93, 796-801	2.8	5
22	A Systematic Review of Training Methods That May Improve Selective Voluntary Motor Control in Children With Spastic Cerebral Palsy. <i>Frontiers in Neurology</i> , 2020 , 11, 572038	4.1	4
21	Die praktische Anwendung von Exergames und virtueller Realität in der pädiatrischen Rehabilitation. <i>Neuroreha</i> , 2017 , 09, 35-40	0.2	3
20	The relevance of nerve mobility on function and activity in children with Cerebral Palsy. <i>BMC Neurology</i> , 2016 , 16, 194	3.1	3
19	Concurrent Validity of Two Gait Performance Measures in Children with Neuromotor Disorders. <i>Physical and Occupational Therapy in Pediatrics</i> , 2019 , 39, 181-192	2.1	3
18	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> , 2021 , 18, 29	5.3	3
17	Clinical utility of a pediatric hand exoskeleton: identifying users, practicability, and acceptance, and recommendations for design improvement.. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2022 , 19, 17	5.3	2
16	Roboterunterstützte Lokomotionstherapie bei Kindern in der Neuroreha. <i>Neuroreha</i> , 2018 , 10, 119-126	0.2	2
15	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> , 2021 , 104, 368504211008058	11.1	2
14	Impact of Upper Extremity Impairment and Trunk Control on Self-Care Independence in Children With Upper Motor Neuron Lesions. <i>Physical Therapy</i> , 2021 , 101,	3.3	2
13	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> , 2021 , 9, e26028	3.4	2
12	Validity and reliability of the Selective Control of the Upper Extremity Scale in children with upper motor neuron lesions. <i>Disability and Rehabilitation</i> , 2021 , 1-7	2.4	2
11	Magnetic resonance imaging markers reflect cognitive outcome after rehabilitation in children with acquired brain injury. <i>European Journal of Radiology</i> , 2020 , 126, 108963	4.7	1
10	Zerebralparese: ein Update. <i>Pädiatrie Up2date</i> , 2014 , 09, 183-214	0.2	1

9	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> , 2021 , 21, 505	2.6	1
8	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> , 2021 , 4, 1000072	0.2	1
7	Quantifying age-related differences in selective voluntary motor control in children and adolescents with three assessments. <i>Human Movement Science</i> , 2021 , 77, 102790	2.4	0
6	Robot-Assisted Gait Training for Children and Youth with Cerebral Palsy 2019 , 1-20		
5	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> , 2021 , 5, 360	1.1	
4	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> , 2020 , 40, 345-359	2.1	
3	Velocity dependent measure of spasticity: Reliability in children and juveniles with neuromotor disorders. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2021 , 14, 219-226	1.4	
2	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> , 2022 , 7, 107-114	3.8	
1	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> , 2021 , 1-14	1.8	