

Johannes van der Steen

List of Publications by Citations

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96
papers

2,720
citations

28
h-index

50
g-index

97
ext. papers

3,181
ext. citations

2.9
avg, IF

4.55
L-index

#	Paper	IF	Citations
96	Human ocular counterroll: assessment of static and dynamic properties from electromagnetic scleral coil recordings. <i>Experimental Brain Research</i> , 1985 , 59, 185-96	2.3	365
95	Functional and anatomic organization of three-dimensional eye movements in rabbit cerebellar flocculus. <i>Journal of Neurophysiology</i> , 1994 , 72, 31-46	3.2	156
94	The involvement of monkey premotor cortex neurones in preparation of visually cued arm movements. <i>Behavioural Brain Research</i> , 1985 , 18, 143-57	3.4	146
93	Human eye movements associated with blinks and prolonged eyelid closure. <i>Journal of Neurophysiology</i> , 1985 , 54, 11-27	3.2	140
92	Ocular vergence under natural conditions. I. Continuous changes of target distance along the median plane. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1989 , 236, 417-40		104
91	Platform accelerations of three different whole-body vibration devices and the transmission of vertical vibrations to the lower limbs. <i>Medical Engineering and Physics</i> , 2009 , 31, 937-44	2.4	95
90	Foveation dynamics in congenital nystagmus. I: Fixation. <i>Documenta Ophthalmologica</i> , 1992 , 79, 1-23	2.2	92
89	Vision in the presence of known natural retinal image motion. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1985 , 2, 226-33	1.8	92
88	Expression of protein kinase C inhibitor blocks cerebellar long-term depression without affecting Purkinje cell excitability in alert mice. <i>Journal of Neuroscience</i> , 2001 , 21, 5813-23	6.6	87
87	Recording three-dimensional eye movements: scleral search coils versus video oculography. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 179-87		72
86	Instability of ocular torsion during fixation: cyclovergence is more stable than cycloverision. <i>Vision Research</i> , 1994 , 34, 1077-87	2.1	72
85	Voluntary selection of the target for smooth eye movement in the presence of superimposed, full-field stationary and moving stimuli. <i>Vision Research</i> , 1984 , 24, 1789-98	2.1	71
84	Effects of unilateral frontal eye-field lesions on eye-head coordination in monkey. <i>Journal of Neurophysiology</i> , 1986 , 55, 696-714	3.2	60
83	Cerebral Visual Impairment: which perceptive visual dysfunctions can be expected in children with brain damage? A systematic review. <i>Research in Developmental Disabilities</i> , 2010 , 31, 1149-59	2.7	59
82	Gain and delay of human vestibulo-ocular reflexes to oscillation and steps of the head by a reactive torque helmet. I. Normal subjects. <i>Acta Oto-Laryngologica</i> , 1997 , 117, 785-95	1.6	57
81	Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance. <i>Vision Research</i> , 1995 , 35, 3459-71	2.1	53
80	Foveation dynamics in congenital nystagmus. II: Smooth pursuit. <i>Documenta Ophthalmologica</i> , 1992 , 79, 25-49	2.2	51

79	Ocular stability in the horizontal, frontal and sagittal planes in the rabbit. <i>Experimental Brain Research</i> , 1984 , 56, 263-74	2.3	51
78	Foveation dynamics in congenital nystagmus. III: Vestibulo-ocular reflex. <i>Documenta Ophthalmologica</i> , 1992 , 79, 51-70	2.2	45
77	Injections of beta-noradrenergic substances in the flocculus of rabbits affect adaptation of the VOR gain. <i>Experimental Brain Research</i> , 1990 , 79, 249-60	2.3	44
76	Simple spike and complex spike activity of floccular Purkinje cells during the optokinetic reflex in mice lacking cerebellar long-term depression. <i>European Journal of Neuroscience</i> , 2004 , 19, 687-97	3.5	43
75	Visuomotor impairment in early-stage Alzheimer's disease: changes in relative timing of eye and hand movements. <i>Journal of Alzheimer's Disease</i> , 2012 , 30, 131-43	4.3	38
74	Floccular complex spike response to transparent retinal slip. <i>Neuron</i> , 2001 , 30, 795-801	13.9	37
73	Assessment of visual orienting behaviour in young children using remote eye tracking: methodology and reliability. <i>Journal of Neuroscience Methods</i> , 2010 , 189, 252-6	3	36
72	Gaze-shift dynamics in subjects with and without symptoms of convergence insufficiency: influence of monocular preference and the effect of training. <i>Vision Research</i> , 1999 , 39, 3095-107	2.1	36
71	Post-rotary nystagmus and optokinetic after-nystagmus in the rabbit linear rather than exponential decay. <i>Experimental Brain Research</i> , 1980 , 40, 330-8	2.3	36
70	Gain and delay of human vestibulo-ocular reflexes to oscillation and steps of the head by a reactive torque helmet. II. Vestibular-deficient subjects. <i>Acta Oto-Laryngologica</i> , 1997 , 117, 796-809	1.6	34
69	Binocular saccadic eye movements in multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 1997 , 148, 53-65	3.2	32
68	Visually induced cyclovergence and cyclovergence. <i>Vision Research</i> , 1992 , 32, 1875-83	2.1	25
67	The sensitivity of the cod sacculus to directional and non-directional sound stimuli. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1979 , 64, 467-471		21
66	Comparison of saccadic reaction time between normal and glaucoma using an eye movement perimeter. <i>Indian Journal of Ophthalmology</i> , 2014 , 62, 55-9	1.6	20
65	A comparison of oculomotor pursuit of a target in circular real, beta or sigma motion. <i>Vision Research</i> , 1983 , 23, 1655-61	2.1	20
64	On the nature of gain changes of the optokinetic reflex. <i>Progress in Brain Research</i> , 2000 , 124, 247-55	2.9	19
63	A Method to Quantify Visual Information Processing in Children Using Eye Tracking. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	18
62	Validity and Repeatability of Saccadic Response Times Across the Visual Field in Eye Movement Perimetry. <i>Translational Vision Science and Technology</i> , 2013 , 2, 3	3.3	18

61	Three-dimensional organization of optokinetic responses in the rabbit. <i>Journal of Neurophysiology</i> , 1993 , 69, 303-17	3.2	18
60	Changes in Timing and kinematics of goal directed eye-hand movements in early-stage Parkinson's disease. <i>Translational Neurodegeneration</i> , 2013 , 2, 1	10.3	17
59	Quantification of visual function assessment using remote eye tracking in children: validity and applicability. <i>Acta Ophthalmologica</i> , 2016 , 94, 599-608	3.7	16
58	Optokinetic nystagmus in the rabbit and its modulation by bilateral microinjection of carbachol in the cerebellar flocculus. <i>Experimental Brain Research</i> , 1992 , 90, 456-68	2.3	15
57	Early identification of cerebral visual impairments in infants born extremely preterm. <i>Developmental Medicine and Child Neurology</i> , 2016 , 58, 1030-5	3.3	14
56	Factors related to impaired visual orienting behavior in children with intellectual disabilities. <i>Research in Developmental Disabilities</i> , 2012 , 33, 1670-6	2.7	14
55	The Effect of Neurodegeneration on Visuomotor Behavior in Alzheimer's Disease and Parkinson's Disease. <i>Motor Control</i> , 2016 , 20, 1-20	1.3	13
54	Development and face validity of a cerebral visual impairment motor questionnaire for children with cerebral palsy. <i>Child: Care, Health and Development</i> , 2017 , 43, 37-47	2.8	13
53	Effects of visual processing and congenital nystagmus on visually guided ocular motor behaviour. <i>Developmental Medicine and Child Neurology</i> , 2011 , 53, 344-9	3.3	13
52	Saccadic binocular coordination in alternating exotropia. <i>Vision Research</i> , 2001 , 41, 3425-35	2.1	13
51	Eye torsion elicited by oscillating gratings: effects of orientation, wavelength and stationary contours. <i>Vision Research</i> , 1994 , 34, 533-40	2.1	13
50	Representations of ocular rotations in the cerebellar flocculus of the rabbit. <i>Progress in Brain Research</i> , 1989 , 80, 213-23; discussion 211-2	2.9	13
49	Development of salience-driven and visually-guided eye movement responses. <i>Journal of Vision</i> , 2016 , 16, 18	0.4	12
48	Reliability of visual orienting response measures in children with and without visual impairments. <i>Journal of Neuroscience Methods</i> , 2014 , 233, 54-62	3	11
47	Repeatability of the timing of eye-hand coordinated movements across different cognitive tasks. <i>Journal of Neuroscience Methods</i> , 2013 , 218, 131-8	3	9
46	Mini-Mental State Examination subscores indicate visuomotor deficits in Alzheimer's disease patients: A cross-sectional study in a Dutch population. <i>Geriatrics and Gerontology International</i> , 2014 , 14, 880-5	2.9	9
45	Delayed visual orienting responses in children with developmental and/or intellectual disabilities. <i>Journal of Intellectual Disability Research</i> , 2013 , 57, 1093-103	3.2	9
44	Quantification of visual orienting responses to coherent form and motion in typically developing children aged 0-12 years 2012 , 53, 2708-14		9

43	Unilateral cholinergic stimulation of the rabbit's cerebellar flocculus: asymmetric effects on optokinetic responses. <i>Experimental Brain Research</i> , 1993 , 92, 375-84	2.3	9
42	The relationship between visual orienting responses and clinical characteristics in children attending special education for the visually impaired. <i>Journal of Child Neurology</i> , 2015 , 30, 690-7	2.5	8
41	The Effect of Cataract on Eye Movement Perimetry. <i>Journal of Ophthalmology</i> , 2015 , 2015, 425067	2	8
40	Visual and oculomotor function in optic chiasma-sectioned rabbits. <i>Experimental Brain Research</i> , 1987 , 66, 61-73	2.3	8
39	Copying strategies for patterns by children and adults. <i>Perceptual and Motor Skills</i> , 2000 , 91, 603-15	2.2	7
38	Shortening of vestibular nystagmus in response to velocity steps by microinjection of carbachol in the rabbit's cerebellar flocculus. <i>Experimental Brain Research</i> , 1993 , 92, 385-90	2.3	7
37	Development of a test grid using Eye Movement Perimetry for screening glaucomatous visual field defects. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2018 , 256, 371-379	3.8	6
36	Gain and Phase Control of Compensatory Eye Movements by the Flocculus of the Vestibulocerebellum. <i>Springer Handbook of Auditory Research</i> , 2004 , 375-422	1.2	6
35	Visual-vestibular interaction during transparent optokinetic stimulation in the rabbit. <i>Experimental Brain Research</i> , 1999 , 125, 87-96	2.3	6
34	Changes in VOR adaptation after local injection of beta-noradrenergic agents in the flocculus of rabbits. <i>Acta Oto-Laryngologica</i> , 1991 , 111, 176-81	1.6	6
33	Enhancement of optokinetic and vestibuloocular responses in the rabbit by cholinergic stimulation of the flocculus. <i>Annals of the New York Academy of Sciences</i> , 1992 , 656, 612-29	6.5	6
32	Combining visual sensory functions and visuospatial orienting functions in children with visual pathology: A longitudinal study. <i>Brain and Development</i> , 2019 , 41, 135-149	2.2	6
31	An Exploratory Study of Reading Mathematical Expressions by Braille Readers. <i>Journal of Visual Impairment and Blindness</i> , 2019 , 113, 68-80	0.7	5
30	Effect of Age, Sex, Stimulus Intensity, and Eccentricity on Saccadic Reaction Time in Eye Movement Perimetry. <i>Translational Vision Science and Technology</i> , 2019 , 8, 13	3.3	5
29	Viewing behavior and related clinical characteristics in a population of children with visual impairments in the Netherlands. <i>Research in Developmental Disabilities</i> , 2014 , 35, 1393-401	2.7	5
28	Behavioral inhibition errors in Parkinson's disease tested using an antisaccade and antitapping task. <i>Journal of Parkinson's Disease</i> , 2014 , 4, 599-608	5.3	5
27	Peaks and troughs of three-dimensional vestibulo-ocular reflex in humans. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010 , 11, 383-93	3.3	5
26	Eye Movement Perimetry and Frequency Doubling Perimetry: clinical performance and patient preference during glaucoma screening. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2019 , 257, 1277-1287	3.8	4

25	Orienting responses to various visual stimuli in children with visual processing impairments or infantile nystagmus syndrome. <i>Journal of Child Neurology</i> , 2014 , 29, 1632-7	2.5	4
24	Angular and linear vestibulo-ocular responses in humans. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1039, 68-80	6.5	4
23	Brain Damage and Visuospatial Impairments: Exploring Early Structure-Function Associations in Children Born Very Preterm. <i>Pediatric Neurology</i> , 2020 , 109, 63-71	2.9	3
22	Three dimensional vestibular ocular reflex testing using a six degrees of freedom motion platform. <i>Journal of Visualized Experiments</i> , 2013 , e4144	1.6	3
21	Early intervention for children at risk of visual processing dysfunctions from 1 year of age: a randomized controlled trial protocol. <i>Trials</i> , 2020 , 21, 44	2.8	3
20	Processing speed in perceptual visual crowding. <i>Journal of Vision</i> , 2019 , 19, 9	0.4	2
19	Scaling of compensatory eye movements during translations: virtual versus real depth. <i>Neuroscience</i> , 2013 , 246, 73-81	3.9	2
18	Binocular eye movement control and motion perception: what is being tracked? 2012 , 53, 7268-75		2
17	Effects of cholinergic neuromodulation in cerebellar flocculus on transparent motion processing in the rabbit. <i>Experimental Brain Research</i> , 2000 , 134, 255-60	2.3	2
16	Permanent changes in eye-head coordination after both unilateral frontal eye field lesions in monkeys and functional recovery. <i>Behavioural Brain Research</i> , 1985 , 16, 230-231	3.4	2
15	Delays in Manual Reaching Are Associated with Impaired Functional Abilities in Early Dementia Patients. <i>Dementia and Geriatric Cognitive Disorders</i> , 2015 , 40, 63-71	2.6	1
14	Version-vergence interactions during memory-guided binocular gaze shifts 2013 , 54, 1656-64		1
13	Binocular eye movement responses to dichoptically presented horizontal and/or vertical stimulus steps. <i>Annals of the New York Academy of Sciences</i> , 2002 , 956, 487-91	6.5	1
12	Early Screening of Visual Processing Dysfunctions in Children Born Very or Extremely Preterm. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 729080	3.3	1
11	Teachers Skills and Knowledge in Mathematics Education for Braille Readers. <i>Technology, Knowledge and Learning</i> , 1	2.9	0
10	To Explore the Predictive Power of Visuomotor Network Dysfunctions in Mild Cognitive Impairment and Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2021 , 15, 654003	5.1	0
9	Slowed Saccadic Reaction Times in Seemingly Normal Parts of Glaucomatous Visual Fields. <i>Frontiers in Medicine</i> , 2021 , 8, 679297	4.9	0
8	Remote eye tracking assesses age dependence processing of coherent motion in typically-developing children. <i>Journal of Medical Engineering and Technology</i> , 2013 , 37, 109-15	1.8	

- 7 Acetylcholine enhances optokinetic modulation of floccular Purkinje cells. *Annals of the New York Academy of Sciences*, **1996**, 781, 703-5 6.5
- 6 Three-dimensional retinal image stability during visual tilt discrimination in the rabbit. *Behavioural Brain Research*, **1990**, 40, 61-5 3.4
- 5 Residual vision in optic chiasma-sectioned rabbits. *Behavioural Brain Research*, **1986**, 20, 140-141 3.4
- 4 Quantified visuospatial attention & motion processing in very preterm born children from 1y to 2y corrected age is related to neurodevelopmental outcome. *Journal of Vision*, **2019**, 19, 57a 0.4
- 3 Brain damage and early visuospatial problems: a structure-function coupling in very preterm born children. *Journal of Vision*, **2019**, 19, 56b 0.4
- 2 Foveation dynamics in congenital nystagmus IV: vergence. *Documenta Ophthalmologica*, **2020**, 140, 221-232
- 1 Towards a Universal Mathematical Braille Notation. *Journal of Visual Impairment and Blindness*, 0145482X/22/10899