Johannes van der Steen

List of Publications by Year
in descending order

97 papers	3,467 citations	186265 28 h-index	149698 56 g-index
97 all docs	97 docs citations	97 times ranked	1798 citing authors

#	Article	IF	Citations
1	Teachersâ€™ Skills and Knowledge in Mathematics Education for Braille Readers. Technology, Knowledge and Learning, 2022, 27, 1171-1192.	4.9	3
2	Towards a Universal Mathematical Braille Notation. Journal of Visual Impairment and Blindness, 2022, 116, 141-153.	0.7	1
3	To Explore the Predictive Power of Visuomotor Network Dysfunctions in Mild Cognitive Impairment and Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2021, 15, 654003.	2.8	6
4	Slowed Saccadic Reaction Times in Seemingly Normal Parts of Glaucomatous Visual Fields. Frontiers in Medicine, 2021, 8, 679297.	2.6	3
5	Early Screening of Visual Processing Dysfunctions in Children Born Very or Extremely Preterm. Frontiers in Human Neuroscience, 2021, 15, 729080.	2.0	5
6	Early intervention for children at risk of visual processing dysfunctions from 1 year of age: a randomized controlled trial protocol. Trials, 2020, 21, 44.	1.6	6
7	Foveation dynamics in congenital nystagmus IV: vergence. Documenta Ophthalmologica, 2020, 140, 221-232.	2.2	0
8	Brain Damage and Visuospatial Impairments: Exploring Early Structure-Function Associations in Children Born Very Preterm. Pediatric Neurology, 2020, 109, 63-71.	2.1	4
9	Effect of Age, Sex, Stimulus Intensity, and Eccentricity on Saccadic Reaction Time in Eye Movement Perimetry. Translational Vision Science and Technology, 2019, 8, 13.	2.2	15
10	An Exploratory Study of Reading Mathematical Expressions by Braille Readers. Journal of Visual Impairment and Blindness, 2019, 113, 68-80.	0.7	6
11	Processing speed in perceptual visual crowding. Journal of Vision, 2019, 19, 9.	0.3	3
12	Eye Movement Perimetry and Frequency Doubling Perimetry: clinical performance and patient preference during glaucoma screening. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 1277-1287.	1.9	6
13	Combining visual sensory functions and visuospatial orienting functions in children with visual pathology: A longitudinal study. Brain and Development, 2019, 41, 135-149.	1.1	10
14	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.	0.3	0
15	Brain damage and early visuospatial problems: a structure-function coupling in very preterm born children. Journal of Vision, 2019, 19, 56b.	0.3	0
16	Development of a test grid using Eye Movement Perimetry for screening glaucomatous visual field defects. Graefe's Archive for Clinical and Experimental Ophthalmology, 2018, 256, 371-379.	1.9	8
17	Development and face validity of a cerebral visual impairment motor questionnaire for children with cerebral palsy. Child: Care, Health and Development, 2017, 43, 37-47.	1.7	19
18	Development of salience-driven and visually-guided eye movement responses. Journal of Vision, 2016, 16, 18.	0.3	17

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19	Quantification of visual function assessment using remote eye tracking in children: validity and applicability. Acta Ophthalmologica, 2016, 94, 599-608.	1.1	31
20	The Effect of Neurodegeneration on Visuomotor Behavior in Alzheimerâ€™s Disease and Parkinsonâ€™s Disease. Motor Control, 2016, 20, 1-20.	0.6	18
21	A Method to Quantify Visual Information Processing in Children Using Eye Tracking. Journal of Visualized Experiments, 2016, , .	0.3	25
22	Early identification of cerebral visual impairments in infants born extremely preterm. Developmental Medicine and Child Neurology, 2016, 58, 1030-1035.	2.1	18
23	The Effect of Cataract on Eye Movement Perimetry. Journal of Ophthalmology, 2015, 2015, 1-9.	1.3	11
24	Delays in Manual Reaching Are Associated with Impaired Functional Abilities in Early Dementia Patients. Dementia and Geriatric Cognitive Disorders, 2015, 40, 63-71.	1.5	5
25	The Relationship Between Visual Orienting Responses and Clinical Characteristics in Children Attending Special Education for the Visually Impaired. Journal of Child Neurology, 2015, 30, 690-697.	1.4	12
26	Orienting Responses to Various Visual Stimuli in Children With Visual Processing Impairments or Infantile Nystagmus Syndrome. Journal of Child Neurology, 2014, 29, 1632-1637.	1.4	8
27	Comparison of saccadic reaction time between normal and glaucoma using an eye movement perimeter. Indian Journal of Ophthalmology, 2014, 62, 55.	1.1	24
28	Mini-Mental State Examination subscores indicate visuomotor deficits in Alzheimer's disease patients: A cross-sectional study in a Dutch population. Geriatrics and Gerontology International, 2014, 14, 880-885.	1.5	20
29	Reliability of visual orienting response measures in children with and without visual impairments. Journal of Neuroscience Methods, 2014, 233, 54-62.	2.5	13
30	Viewing behavior and related clinical characteristics in a population of children with visual impairments in the Netherlands. Research in Developmental Disabilities, 2014, 35, 1393-1401.	2.2	15
31	Behavioral Inhibition Errors in Parkinson's Disease Tested Using an Antisaccade and Antitapping Task. Journal of Parkinson's Disease, 2014, 4, 599-608.	2.8	6
32	Delayed visual orienting responses in children with developmental and/or intellectual disabilities. Journal of Intellectual Disability Research, 2013, 57, 1093-1103.	2.0	12
33	Changes in Timing and kinematics of goal directed eye-hand movements in early-stage Parkinsonâ€™s disease. Translational Neurodegeneration, 2013, 2, 1.	8.0	26
34	Repeatability of the timing of eyeâ€“hand coordinated movements across different cognitive tasks. Journal of Neuroscience Methods, 2013, 218, 131-138.	2.5	12
35	Scaling of compensatory eye movements during translations: Virtual versus real depth. Neuroscience, 2013, 246, 73-81.	2.3	2
36	Remote eye tracking assesses age dependence processing of coherent motion in typically-developing children. Journal of Medical Engineering and Technology, 2013, 37, 109-115.	1.4	0

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37	Three Dimensional Vestibular Ocular Reflex Testing Using a Six Degrees of Freedom Motion Platform. Journal of Visualized Experiments, 2013, , e4144.	0.3	3
38	Validity and Repeatability of Saccadic Response Times Across the Visual Field in Eye Movement Perimetry. Translational Vision Science and Technology, 2013, 2, 3.	2.2	28
39	Versionâ€“Vergence Interactions during Memory-Guided Binocular Gaze Shifts. , 2013, 54, 1656.		1
40	Quantification of Visual Orienting Responses to Coherent Form and Motion in Typically Developing Children Aged 0â€“12 Years. , 2012, 53, 2708.		10
41	Visuomotor Impairment in Early-Stage Alzheimer's Disease: Changes in Relative Timing of Eye and Hand Movements. Journal of Alzheimer's Disease, 2012, 30, 131-143.	2.6	48
42	Factors related to impaired visual orienting behavior in children with intellectual disabilities. Research in Developmental Disabilities, 2012, 33, 1670-1676.	2.2	17
43	Binocular Eye Movement Control and Motion Perception: What Is Being Tracked?. , 2012, 53, 7268.		2
44	Effects of visual processing and congenital nystagmus on visually guided ocular motor behaviour. Developmental Medicine and Child Neurology, 2011, 53, 344-349.	2.1	18
45	Peaks and Troughs of Three-Dimensional Vestibulo-ocular Reflex in Humans. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 383-393.	1.8	8
46	Assessment of visual orienting behaviour in young children using remote eye tracking: Methodology and reliability. Journal of Neuroscience Methods, 2010, 189, 252-256.	2.5	45
47	Cerebral Visual Impairment: Which perceptive visual dysfunctions can be expected in children with brain damage? A systematic review. Research in Developmental Disabilities, 2010, 31, 1149-1159.	2.2	79
48	Platform accelerations of three different whole-body vibration devices and the transmission of vertical vibrations to the lower limbs. Medical Engineering and Physics, 2009, 31, 937-944.	1.7	114
49	Recording Three-Dimensional Eye Movements: Scleral Search Coils versus Video Oculography. , 2006, 47, 179.		86
50	Angular and Linear Vestibulo-Ocular Responses in Humans. Annals of the New York Academy of Sciences, 2005, 1039, 68-80.	3.8	5
51	Simple spike and complex spike activity of floccular Purkinje cells during the optokinetic reflex in mice lacking cerebellar long-term depression. European Journal of Neuroscience, 2004, 19, 687-697.	2.6	47
52	Gain and Phase Control of Compensatory Eye Movements by the Flocculus of the Vestibulocerebellum. Springer Handbook of Auditory Research, 2004, , 375-422.	0.7	7
53	Binocular Eye Movement Responses to Dichoptically Presented Horizontal and/or Vertical Stimulus Steps. Annals of the New York Academy of Sciences, 2002, 956, 487-491.	3.8	1
54	Floccular Complex Spike Response to Transparent Retinal Slip. Neuron, 2001, 30, 795-801.	8.1	39

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55	Saccadic binocular coordination in alternating exotropia. Vision Research, 2001, 41, 3425-3435.	1.4	16
56	Expression of Protein Kinase C Inhibitor Blocks Cerebellar Long-Term Depression without Affecting Purkinje Cell Excitability in Alert Mice. Journal of Neuroscience, 2001, 21, 5813-5823.	3.6	91
57	Effects of cholinergic neuromodulation in cerebellar flocculus on transparent motion processing in the rabbit. Experimental Brain Research, 2000, 134, 255-260.	1.5	2
58	Copying Strategies for Patterns by Children and Adults. Perceptual and Motor Skills, 2000, 91, 603-615.	1.3	8
59	On the nature of gain changes of the optokinetic reflex. Progress in Brain Research, 2000, 124, 247-255.	1.4	25
60	Visual-vestibular interaction during transparent optokinetic stimulation in the rabbit. Experimental Brain Research, 1999, 125, 87-96.	1.5	7
61	Gaze-shift dynamics in subjects with and without symptoms of convergence insufficiency: influence of monocular preference and the effect of training. Vision Research, 1999, 39, 3095-3107.	1.4	45
62	Gain and Delay of Human Vestibulo-ocular Reflexes to Oscillation and Steps of the Head by a Reactive Torque Helmet. Acta Oto-Laryngologica, 1997, 117, 796-809.	0.9	40
63	Gain and Delay of Human Vestibulo-ocular Reflexes to Oscillation and Steps of the Head by a Reactive Torque Helmet. Acta Oto-Laryngologica, 1997, 117, 785-795.	0.9	71
64	Binocular saccadic eye movements in multiple sclerosis. Journal of the Neurological Sciences, 1997, 148, 53-65.	0.6	38
65	Acetylcholine Enhances Optokinetic Modulation of Floccular Purkinje Cells. Annals of the New York Academy of Sciences, 1996, 781, 703-705.	3.8	0
66	Unequal amplitude saccades produced by aniseikonic patterns: Effects of viewing distance. Vision Research, 1995, 35, 3459-3471.	1.4	58
67	Functional and anatomic organization of three-dimensional eye movements in rabbit cerebellar flocculus. Journal of Neurophysiology, 1994, 72, 31-46.	1.8	164
68	Instability of ocular torsion during fixation: Cyclovergence is more stable than cycloversion. Vision Research, 1994, 34, 1077-1087.	1.4	83
69	Eye torsion elicited by oscillating gratings: Effects of orientation, wavelength and stationary contours. Vision Research, 1994, 34, 533-540.	1.4	16
70	Unilateral cholinergic stimulation of the rabbit's cerebellar flocculus: asymmetric effects on optokinetic responses. Experimental Brain Research, 1993, 92, 375-384.	1.5	9
71	Shortening of vestibular nystagmus in response to velocity steps by microinjection of carbachol in the rabbit's cerebellar flocculus. Experimental Brain Research, 1993, 92, 385-390.	1.5	7
72	Three-dimensional organization of optokinetic responses in the rabbit. Journal of Neurophysiology, 1993, 69, 303-317.	1.8	18

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73	Visually induced cycloversion and cyclovergence. Vision Research, 1992, 32, 1875-1883.	1.4	29
74	Enhancement of Optokinetic and Vestibuloocular Responses in the Rabbit by Cholinergic Stimulation of the Flocculus. Annals of the New York Academy of Sciences, 1992, 656, 612-629.	3.8	6
75	Optokinetic nystagmus in the rabbit and its modulation by bilateral microinjection of carbachol in the cerebellar flocculus. Experimental Brain Research, 1992, 90, 456-468.	1.5	18
76	Foveation dynamics in congenital nystagmus I: Fixation. Documenta Ophthalmologica, 1992, 79, 1-23.	2.2	109
77	Foveation dynamics in congenital nystagmus II: Smooth pursuit. Documenta Ophthalmologica, 1992, 79, 25-49.	2.2	68
78	Foveation dynamics in congenital nystagmus III: Vestibulo-ocular reflex. Documenta Ophthalmologica, 1992, 79, 51-70.	2.2	51
79	Changes in VOR Adaptation After Local Injection of Î²-noradrenergic Agents in the Flocculus of Rabbits. Acta Oto-Laryngologica, 1991, 111, 176-181.	0.9	8
80	Injections of Î²-noradrenergic substances in the flocculus of rabbits affect adaptation of the VOR gain. Experimental Brain Research, 1990, 79, 249-260.	1.5	46
81	Three-dimensional retinal image stability during visual tilt discrimination in the rabbit. Behavioural Brain Research, 1990, 40, 61-65.	2.2	0
82	Ocular vergence under natural conditions. I. Continuous changes of target distance along the median plane. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1989, 236, 417-440.	1.8	195
83	Chapter 18 Representations of ocular rotations in the cerebellar flocculus of the rabbit. Progress in Brain Research, 1989, 80, 213-223.	1.4	22
84	Visual and oculomotor function in optic chiasma-sectioned rabbits. Experimental Brain Research, 1987, 66, 61-73.	1.5	9
85	Residual vision in optic chiasma-sectioned rabbits. Behavioural Brain Research, 1986, 20, 140-141.	2.2	0
86	Effects of unilateral frontal eye-field lesions on eye-head coordination in monkey. Journal of Neurophysiology, 1986, 55, 696-714.	1.8	63
87	Human ocular counterroll: assessment of static and dynamic properties from electromagnetic scleral coil recordings. Experimental Brain Research, 1985, 59, 185-196.	1.5	484
88	Human eye movements associated with blinks and prolonged eyelid closure. Journal of Neurophysiology, 1985, 54, 11-27.	1.8	171
89	The involvement of monkey premotor cortex neurones in preparation of visually cued arm movements. Behavioural Brain Research, 1985, 18, 143-157.	2.2	160
90	Permanent changes in eye-head coordination after both unilateral frontal eye field lesions in monkeys and functional recovery. Behavioural Brain Research, 1985, 16, 230-231.	2.2	2

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91	Vision in the presence of known natural retinal image motion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 226.	1.5	172
92	Ocular stability in the horizontal, frontal and sagittal planes in the rabbit. Experimental Brain Research, 1984, 56, 263-274.	1.5	58
93	Voluntary selection of the target for smooth eye movement in the presence of superimposed, full-field stationary and moving stimuli. Vision Research, 1984, 24, 1789-1798.	1.4	80
94	A comparison of oculomotor pursuit of a target in circular real, beta or sigma motion. Vision Research, 1983, 23, 1655-1661.	1.4	22
95	Eye movements in three dimensions in freely moving and restrained rabbits. Behavioural Brain Research, 1981, 2, 283.	2.2	1
96	Post-rotatory nystagmus and optokinetic after-nystagmus in the rabbit linear rather than exponential decay. Experimental Brain Research, 1980, 40, 330-338.	1.5	43
97	The sensitivity of the cod sacculus to directional and non-directional sound stimuli. Comparative Biochemistry and Physiology A, Comparative Physiology, 1979, 64, 467-471.	0.6	24