

Johannes van der Steen

List of Publications by Year in descending order

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Version: 2024-02-01

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	Human ocular counterroll: assessment of static and dynamic properties from electromagnetic scleral coil recordings. <i>Experimental Brain Research</i> , 1985, 59, 185-196.	1.5	484
2	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, 417-440.	1.8	195
3	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.	1.5	172
4	Human eye movements associated with blinks and prolonged eyelid closure. <i>Journal of Neurophysiology</i> , 1985, 54, 11-27.	1.8	171
5	Functional and anatomic organization of three-dimensional eye movements in rabbit cerebellar flocculus. <i>Journal of Neurophysiology</i> , 1994, 72, 31-46.	1.8	164
6	The involvement of monkey premotor cortex neurones in preparation of visually cued arm movements. <i>Behavioural Brain Research</i> , 1985, 18, 143-157.	2.2	160
7	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, 937-944.	1.7	114
8	Foveation dynamics in congenital nystagmus I: Fixation. <i>Documenta Ophthalmologica</i> , 1992, 79, 1-23.	2.2	109
9	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, 5813-5823.	3.6	91
10	Recording Three-Dimensional Eye Movements: Scleral Search Coils versus Video Oculography. , 2006, 47, 179.		86
11	Instability of ocular torsion during fixation: Cyclovergence is more stable than cycloverision. <i>Vision Research</i> , 1994, 34, 1077-1087.	1.4	83
12	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, 1789-1798.	1.4	80
13	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, 1149-1159.	2.2	79
14	Gain and Delay of Human Vestibulo-ocular Reflexes to Oscillation and Steps of the Head by a Reactive Torque Helmet. <i>Acta Oto-Laryngologica</i> , 1997, 117, 785-795.	0.9	71
15	Foveation dynamics in congenital nystagmus II: Smooth pursuit. <i>Documenta Ophthalmologica</i> , 1992, 79, 25-49.	2.2	68
16	Effects of unilateral frontal eye-field lesions on eye-head coordination in monkey. <i>Journal of Neurophysiology</i> , 1986, 55, 696-714.	1.8	63
17	Ocular stability in the horizontal, frontal and sagittal planes in the rabbit. <i>Experimental Brain Research</i> , 1984, 56, 263-274.	1.5	58
18	Unequal amplitude saccades produced by aniseikonic patterns: Effects of viewing distance. <i>Vision Research</i> , 1995, 35, 3459-3471.	1.4	58

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19	Foveation dynamics in congenital nystagmus III: Vestibulo-ocular reflex. <i>Documenta Ophthalmologica</i> , 1992, 79, 51-70.	2.2	51
20	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, 131-143.	2.6	48
21	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, 687-697.	2.6	47
22	Injections of \hat{I}^2 -noradrenergic substances in the flocculus of rabbits affect adaptation of the VOR gain. <i>Experimental Brain Research</i> , 1990, 79, 249-260.	1.5	46
23	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, 3095-3107.	1.4	45
24	Assessment of visual orienting behaviour in young children using remote eye tracking: Methodology and reliability. <i>Journal of Neuroscience Methods</i> , 2010, 189, 252-256.	2.5	45
25	Post-rotatory nystagmus and optokinetic after-nystagmus in the rabbit linear rather than exponential decay. <i>Experimental Brain Research</i> , 1980, 40, 330-338.	1.5	43
26	Gain and Delay of Human Vestibulo-ocular Reflexes to Oscillation and Steps of the Head by a Reactive Torque Helmet. <i>Acta Oto-Laryngologica</i> , 1997, 117, 796-809.	0.9	40
27	Floccular Complex Spike Response to Transparent Retinal Slip. <i>Neuron</i> , 2001, 30, 795-801.	8.1	39
28	Binocular saccadic eye movements in multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 1997, 148, 53-65.	0.6	38
29	Quantification of visual function assessment using remote eye tracking in children: validity and applicability. <i>Acta Ophthalmologica</i> , 2016, 94, 599-608.	1.1	31
30	Visually induced cyclovergence and cyclovergence. <i>Vision Research</i> , 1992, 32, 1875-1883.	1.4	29
31	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.	2.2	28
32	Changes in Timing and kinematics of goal directed eye-hand movements in early-stage Parkinson's disease. <i>Translational Neurodegeneration</i> , 2013, 2, 1.	8.0	26
33	On the nature of gain changes of the optokinetic reflex. <i>Progress in Brain Research</i> , 2000, 124, 247-255.	1.4	25
34	A Method to Quantify Visual Information Processing in Children Using Eye Tracking. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	25
35	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.	0.6	24
36	Comparison of saccadic reaction time between normal and glaucoma using an eye movement perimeter. <i>Indian Journal of Ophthalmology</i> , 2014, 62, 55.	1.1	24

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37	A comparison of oculomotor pursuit of a target in circular real, beta or sigma motion. <i>Vision Research</i> , 1983, 23, 1655-1661.	1.4	22
38	Chapter 18 Representations of ocular rotations in the cerebellar flocculus of the rabbit. <i>Progress in Brain Research</i> , 1989, 80, 213-223.	1.4	22
39	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, 880-885.	1.5	20
40	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.	1.7	19
41	Optokinetic nystagmus in the rabbit and its modulation by bilateral microinjection of carbachol in the cerebellar flocculus. <i>Experimental Brain Research</i> , 1992, 90, 456-468.	1.5	18
42	Three-dimensional organization of optokinetic responses in the rabbit. <i>Journal of Neurophysiology</i> , 1993, 69, 303-317.	1.8	18
43	Effects of visual processing and congenital nystagmus on visually guided ocular motor behaviour. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 344-349.	2.1	18
44	The Effect of Neurodegeneration on Visuomotor Behavior in Alzheimer's Disease and Parkinson's Disease. <i>Motor Control</i> , 2016, 20, 1-20.	0.6	18
45	Early identification of cerebral visual impairments in infants born extremely preterm. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 1030-1035.	2.1	18
46	Factors related to impaired visual orienting behavior in children with intellectual disabilities. <i>Research in Developmental Disabilities</i> , 2012, 33, 1670-1676.	2.2	17
47	Development of salience-driven and visually-guided eye movement responses. <i>Journal of Vision</i> , 2016, 16, 18.	0.3	17
48	Eye torsion elicited by oscillating gratings: Effects of orientation, wavelength and stationary contours. <i>Vision Research</i> , 1994, 34, 533-540.	1.4	16
49	Saccadic binocular coordination in alternating exotropia. <i>Vision Research</i> , 2001, 41, 3425-3435.	1.4	16
50	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, 1393-1401.	2.2	15
51	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.	2.2	15
52	Reliability of visual orienting response measures in children with and without visual impairments. <i>Journal of Neuroscience Methods</i> , 2014, 233, 54-62.	2.5	13
53	Delayed visual orienting responses in children with developmental and/or intellectual disabilities. <i>Journal of Intellectual Disability Research</i> , 2013, 57, 1093-1103.	2.0	12
54	Repeatability of the timing of eye-hand coordinated movements across different cognitive tasks. <i>Journal of Neuroscience Methods</i> , 2013, 218, 131-138.	2.5	12

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55	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, 690-697.	1.4	12
56	The Effect of Cataract on Eye Movement Perimetry. <i>Journal of Ophthalmology</i> , 2015, 2015, 1-9.	1.3	11
57	Quantification of Visual Orienting Responses to Coherent Form and Motion in Typically Developing Children Aged 0-12 Years. , 2012, 53, 2708.		10
58	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.	1.1	10
59	Visual and oculomotor function in optic chiasma-sectioned rabbits. <i>Experimental Brain Research</i> , 1987, 66, 61-73.	1.5	9
60	Unilateral cholinergic stimulation of the rabbit's cerebellar flocculus: asymmetric effects on optokinetic responses. <i>Experimental Brain Research</i> , 1993, 92, 375-384.	1.5	9
61	Changes in VOR Adaptation After Local Injection of β^2 -noradrenergic Agents in the Flocculus of Rabbits. <i>Acta Oto-Laryngologica</i> , 1991, 111, 176-181.	0.9	8
62	Copying Strategies for Patterns by Children and Adults. <i>Perceptual and Motor Skills</i> , 2000, 91, 603-615.	1.3	8
63	Peaks and Troughs of Three-Dimensional Vestibulo-ocular Reflex in Humans. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010, 11, 383-393.	1.8	8
64	Orienting Responses to Various Visual Stimuli in Children With Visual Processing Impairments or Infantile Nystagmus Syndrome. <i>Journal of Child Neurology</i> , 2014, 29, 1632-1637.	1.4	8
65	Development of a test grid using Eye Movement Perimetry for screening glaucomatous visual field defects. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2018, 256, 371-379.	1.9	8
66	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, 385-390.	1.5	7
67	Visual-vestibular interaction during transparent optokinetic stimulation in the rabbit. <i>Experimental Brain Research</i> , 1999, 125, 87-96.	1.5	7
68	Gain and Phase Control of Compensatory Eye Movements by the Flocculus of the Vestibulocerebellum. <i>Springer Handbook of Auditory Research</i> , 2004, , 375-422.	0.7	7
69	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, 612-629.	3.8	6
70	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.	2.8	6
71	An Exploratory Study of Reading Mathematical Expressions by Braille Readers. <i>Journal of Visual Impairment and Blindness</i> , 2019, 113, 68-80.	0.7	6
72	Eye Movement Perimetry and Frequency Doubling Perimetry: clinical performance and patient preference during glaucoma screening. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 1277-1287.	1.9	6

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73	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.	1.6	6
74	To Explore the Predictive Power of Visuomotor Network Dysfunctions in Mild Cognitive Impairment and Alzheimerâ€™s Disease. <i>Frontiers in Neuroscience</i> , 2021, 15, 654003.	2.8	6
75	Angular and Linear Vestibulo-Ocular Responses in Humans. <i>Annals of the New York Academy of Sciences</i> , 2005, 1039, 68-80.	3.8	5
76	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.	1.5	5
77	Early Screening of Visual Processing Dysfunctions in Children Born Very or Extremely Preterm. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 729080.	2.0	5
78	Brain Damage and Visuospatial Impairments: Exploring Early Structure-Function Associations in Children Born Very Preterm. <i>Pediatric Neurology</i> , 2020, 109, 63-71.	2.1	4
79	Three Dimensional Vestibular Ocular Reflex Testing Using a Six Degrees of Freedom Motion Platform. <i>Journal of Visualized Experiments</i> , 2013, , e4144.	0.3	3
80	Processing speed in perceptual visual crowding. <i>Journal of Vision</i> , 2019, 19, 9.	0.3	3
81	Teachersâ€™ Skills and Knowledge in Mathematics Education for Braille Readers. <i>Technology, Knowledge and Learning</i> , 2022, 27, 1171-1192.	4.9	3
82	Slowed Saccadic Reaction Times in Seemingly Normal Parts of Glaucomatous Visual Fields. <i>Frontiers in Medicine</i> , 2021, 8, 679297.	2.6	3
83	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.	2.2	2
84	Effects of cholinergic neuromodulation in cerebellar flocculus on transparent motion processing in the rabbit. <i>Experimental Brain Research</i> , 2000, 134, 255-260.	1.5	2
85	Binocular Eye Movement Control and Motion Perception: What Is Being Tracked?. , 2012, 53, 7268.		2
86	Scaling of compensatory eye movements during translations: Virtual versus real depth. <i>Neuroscience</i> , 2013, 246, 73-81.	2.3	2
87	Eye movements in three dimensions in freely moving and restrained rabbits. <i>Behavioural Brain Research</i> , 1981, 2, 283.	2.2	1
88	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, 487-491.	3.8	1
89	Versionâ€“Vergence Interactions during Memory-Guided Binocular Gaze Shifts. , 2013, 54, 1656.		1
90	Towards a Universal Mathematical Braille Notation. <i>Journal of Visual Impairment and Blindness</i> , 2022, 116, 141-153.	0.7	1

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91	Residual vision in optic chiasma-sectioned rabbits. Behavioural Brain Research, 1986, 20, 140-141.	2.2	0
92	Three-dimensional retinal image stability during visual tilt discrimination in the rabbit. Behavioural Brain Research, 1990, 40, 61-65.	2.2	0
93	Acetylcholine Enhances Optokinetic Modulation of Floccular Purkinje Cells. Annals of the New York Academy of Sciences, 1996, 781, 703-705.	3.8	0
94	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
95	Foveation dynamics in congenital nystagmus IV: vergence. Documenta Ophthalmologica, 2020, 140, 221-232.	2.2	0
96	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
97	Brain damage and early visuospatial problems: a structure-function coupling in very preterm born children. Journal of Vision, 2019, 19, 56b.	0.3	0