Richard Jack Anton van Wezel

List of Publications by Year
in descending order

125 papers	4,233 citations	159585 30 h-index	133252 59 g-index
129 all docs	129 docs citations	129 times ranked	4591 citing authors

#	Article	IF	Citations
1	Adaptation: from single cells to BOLD signals. Trends in Neurosciences, 2006, 29, 250-256.	8.6	475
2	Electrical microstimulation of cortical area MST biases heading perception in monkeys. Nature Neuroscience, 1998, 1, 59-63.	14.8	259
3	Exploring Braakâ€™s Hypothesis of Parkinsonâ€™s Disease. Frontiers in Neurology, 2017, 8, 37.	2.4	210
4	Percept-choice sequences driven by interrupted ambiguous stimuli: A low-level neural model. Journal of Vision, 2007, 7, 10.	0.3	187
5	Adaptation in Macaque MT Reduces Perceived Speed and Improves Speed Discrimination. Journal of Neurophysiology, 2006, 95, 255-270.	1.8	148
6	Testâ€“retest reliability of fMRI activation during prosaccades and antisaccades. NeuroImage, 2007, 36, 532-542.	4.2	119
7	Area MST and Heading Perception in Macaque Monkeys. Cerebral Cortex, 2002, 12, 692-701.	2.9	109
8	Motion Adaptation in Area MT. Journal of Neurophysiology, 2002, 88, 3469-3476.	1.8	108
9	Orthostatic Hypotension and Falls in Older Adults: A Systematic Review and Meta-analysis. Journal of the American Medical Directors Association, 2019, 20, 589-597.e5.	2.5	101
10	Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies. Advanced Healthcare Materials, 2018, 7, e1701164.	7.6	94
11	Inhibition of return is not a foraging facilitator in saccadic search and free viewing. Vision Research, 2005, 45, 1901-1908.	1.4	92
12	Interactions between Speed and Contrast Tuning in the Middle Temporal Area: Implications for the Neural Code for Speed. Journal of Neuroscience, 2006, 26, 8988-8998.	3.6	92
13	Linking form and motion in the primate brain. Trends in Cognitive Sciences, 2008, 12, 230-236.	7.8	89
14	Experience-Driven Plasticity in Binocular Vision. Current Biology, 2010, 20, 1464-1469.	3.9	87
15	Early interactions between neuronal adaptation and voluntary control determine perceptual choices in bistable vision. Journal of Vision, 2008, 8, 16.	0.3	83
16	The laser shoes. Neurology, 2018, 90, e164-e171.	1.1	77
17	Feasibility of external rhythmic cueing with the Google Glass for improving gait in people with Parkinsonâ€™s disease. Journal of Neurology, 2016, 263, 1156-1165.	3.6	67
18	Usability of Three-dimensional Augmented Visual Cues Delivered by Smart Glasses on (Freezing of) Gait in Parkinsonâ€™s Disease. Frontiers in Neurology, 2017, 8, 279.	2.4	61

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19	Magnetic drug delivery with FePd nanowires. Journal of Magnetism and Magnetic Materials, 2015, 380, 299-306.	2.3	57
20	General Validity of Levelt's Propositions Reveals Common Computational Mechanisms for Visual Rivalry. PLoS ONE, 2008, 3, e3473.	2.5	55
21	Patterns of resting state connectivity in human primary visual cortical areas: A 7T fMRI study. NeuroImage, 2014, 84, 911-921.	4.2	55
22	Delayed Response to Animate Implied Motion in Human Motion Processing Areas. Journal of Cognitive Neuroscience, 2006, 18, 158-168.	2.3	54
23	Neuronal toll-like receptors and neuro-immunity in Parkinson's disease, Alzheimer's disease and stroke. Neuroimmunology and Neuroinflammation, 2016, 3, 27.	1.4	51
24	The motion reverse correlation (MRC) method:. Journal of Neuroscience Methods, 2003, 123, 153-166.	2.5	40
25	Crossmodal duration perception involves perceptual grouping, temporal ventriloquism, and variable internal clock rates. Attention, Perception, and Psychophysics, 2011, 73, 219-236.	1.3	40
26	Categorical and coordinate spatial relations in working memory: An fMRI study. Brain Research, 2009, 1297, 70-79.	2.2	39
27	Recovery from adaptation for dynamic and static motion aftereffects: Evidence for two mechanisms. Vision Research, 1996, 36, 421-424.	1.4	37
28	United we sense, divided we fail: context-driven perception of ambiguous visual stimuli. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 932-941.	4.0	37
29	Orthostatic hypotension and physical functioning in older adults: A systematic review and meta-analysis. Ageing Research Reviews, 2018, 48, 122-144.	10.9	37
30	Temporal Dynamics of Direction Tuning in Motion-Sensitive Macaque Area MT. Journal of Neurophysiology, 2005, 93, 2104-2116.	1.8	36
31	Effects of Vision Restoration Training on Early Visual Cortex in Patients With Cerebral Blindness Investigated With Functional Magnetic Resonance Imaging. Journal of Neurophysiology, 2011, 105, 872-882.	1.8	31
32	E-health Support in People with Parkinsonâ€™s Disease with Smart Glasses: A Survey of User Requirements and Expectations in the Netherlands. Journal of Parkinson's Disease, 2015, 5, 369-378.	2.8	31
33	Conveying facial expressions to blind and visually impaired persons through a wearable vibrotactile device. PLoS ONE, 2018, 13, e0194737.	2.5	31
34	The time course of hemispheric differences in categorical and coordinate spatial processing. Neuropsychologia, 2007, 45, 2492-2498.	1.6	30
35	Synchrony in Parkinson's disease: importance of intrinsic properties of the external globus pallidus. Frontiers in Systems Neuroscience, 2013, 7, 60.	2.5	30
36	Predictive coding for motion stimuli in human early visual cortex. Brain Structure and Function, 2016, 221, 879-890.	2.3	29

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37	Delayed Response to Animate Implied Motion in Human Motion Processing Areas. Journal of Cognitive Neuroscience, 2006, 18, 158-168.	2.3	28
38	The Effects of Augmented Reality Visual Cues on Turning in Place in Parkinson's Disease Patients With Freezing of Gait. Frontiers in Neurology, 2020, 11, 185.	2.4	27
39	Directional anisotropy of motion responses in retinotopic cortex. Human Brain Mapping, 2009, 30, 3970-3980.	3.6	26
40	How the COVID-19 pandemic highlights the necessity of animal research. Current Biology, 2020, 30, R1014-R1018.	3.9	26
41	Real-world indoor mobility with simulated prosthetic vision: The benefits and feasibility of contour-based scene simplification at different phosphene resolutions. Journal of Vision, 2022, 22, 1.	0.3	26
42	A review of lateralization of spatial functioning in nonhuman primates. Brain Research Reviews, 2011, 67, 56-72.	9.0	25
43	Sensitivity and reliability of cerebral oxygenation responses to postural changes measured with near-infrared spectroscopy. European Journal of Applied Physiology, 2019, 119, 1117-1125.	2.5	25
44	The dynamics of light adaptation in cat horizontal cell responses. Vision Research, 1993, 33, 1153-1171.	1.4	24
45	Responses of Complex Cells in Area 17 of the Cat to Bi-vectorial Transparent Motion. Vision Research, 1996, 36, 2805-2813.	1.4	24
46	Adaptation to Real Motion Reveals Direction-selective Interactions between Real and Implied Motion Processing. Journal of Cognitive Neuroscience, 2007, 19, 1231-1240.	2.3	24
47	Rapid Systolic Blood Pressure Changes After Standing Up Associate With Impaired Physical Performance in Geriatric Outpatients. Journal of the American Heart Association, 2018, 7, e010060.	3.7	24
48	Exogenous Î±-synuclein hinders synaptic communication in cultured cortical primary rat neurons. PLoS ONE, 2018, 13, e0193763.	2.5	24
49	Directional Motion Sensitivity under Transparent Motion Conditions. Vision Research, 1996, 36, 2333-2336.	1.4	23
50	Light adaptation and frequency transfer properties of cat horizontal cells. Vision Research, 1991, 31, 1129-1142.	1.4	22
51	Effects of background illumination on cat horizontal cell responses. Vision Research, 1991, 31, 919-932.	1.4	22
52	Intraâ€operative ex vivo photoacoustic nodal staging in a rat model using a clinical superparamagnetic iron oxide nanoparticle dispersion. Journal of Biophotonics, 2013, 6, 493-504.	2.3	22
53	Widespread fMRI activity differences between perceptual states in visual rivalry are correlated with differences in observer biases. Brain Research, 2009, 1252, 161-171.	2.2	21
54	Neural mechanisms of speed perception: transparent motion. Journal of Neurophysiology, 2013, 110, 2007-2018.	1.8	21

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55	Dynamics of directional selectivity in MT receptive field centre and surround. European Journal of Neuroscience, 2005, 22, 2049-2058.	2.6	20
56	Occlusion-related lateral connections stabilize kinetic depth stimuli through perceptual coupling. Journal of Vision, 2009, 9, 20-20.	0.3	20
57	Spatial summation in macaque parietal area 7a follows a winner-take-all rule. Journal of Neurophysiology, 2011, 105, 1150-1158.	1.8	20
58	Multiple uses of visual motion. The case for stability in sensory cortex. Neuroscience, 2002, 111, 739-759.	2.3	19
59	Pallidal gap junctionsâ€triggers of synchrony in Parkinson's disease?. Movement Disorders, 2014, 29, 1486-1494.	3.9	19
60	Single-Cell Recordings to Target the Anterior Nucleus of the Thalamus in Deep Brain Stimulation for Patients with Refractory Epilepsy. International Journal of Neural Systems, 2019, 29, 1850012.	5.2	19
61	End-to-end optimization of prosthetic vision. Journal of Vision, 2022, 22, 20.	0.3	19
62	Implied Motion Activation in Cortical Area MT Can Be Explained by Visual Low-level Features. Journal of Cognitive Neuroscience, 2011, 23, 1533-1548.	2.3	18
63	Validation of the Auditory Stroop Task to increase cognitive load in walking tasks in healthy elderly and persons with Parkinsonâ€™s disease. PLoS ONE, 2019, 14, e0220735.	2.5	18
64	Blood Pressure Drop Rate After Standing Up Is Associated With Frailty and Number of Falls in Geriatric Outpatients. Journal of the American Heart Association, 2020, 9, e014688.	3.7	18
65	The influence of biological motion perception on structure-from-motion interpretations at different speeds. Journal of Vision, 2006, 6, 4.	0.3	17
66	Disentangling neural structures for processing of highâ€and lowâ€speed visual motion. European Journal of Neuroscience, 2008, 27, 2341-2353.	2.6	16
67	Divisive Normalization and Neuronal Oscillations in a Single Hierarchical Framework of Selective Visual Attention. Frontiers in Neural Circuits, 2012, 6, 22.	2.8	16
68	In vivotesting of a 3D bifurcating microchannel scaffold inducing separation of regenerating axon bundles in peripheral nerves. Journal of Neural Engineering, 2013, 10, 066018.	3.5	16
69	Provoking Freezing of Gait in Clinical Practice: Turning in Place is More Effective than Stepping in Place. Journal of Parkinson's Disease, 2018, 8, 363-365.	2.8	16
70	Systematic eye movements do not account for the perception of motion during attentive tracking. Vision Research, 2001, 41, 3505-3511.	1.4	14
71	Virtual reality distraction for patients to relieve pain and discomfort during colonoscopy. Endoscopy International Open, 2020, 08, E959-E966.	1.8	14
72	Velocity Dependence of the Interocular Transfer of Dynamic Motion Aftereffects. Perception, 2003, 32, 855-866.	1.2	13

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73	Integration of Motion Responses Underlying Directional Motion Anisotropy in Human Early Visual Cortical Areas. PLoS ONE, 2013, 8, e67468.	2.5	13
74	Speed and direction response profiles of neurons in macaque MT and MST show modest constraint line tuning. Frontiers in Behavioral Neuroscience, 2013, 7, 22.	2.0	13
75	Spatial and temporal properties of cat horizontal cells after prolonged dark adaptation. Vision Research, 1996, 36, 3955-3967.	1.4	12
76	Inter-ocular transfer of stimulus cueing in dominance selection at the onset of binocular rivalry. Vision Research, 2007, 47, 1142-1144.	1.4	12
77	The effect of stimulus features on working memory of categorical and coordinate spatial relations in patients with unilateral brain damage. Cortex, 2012, 48, 737-745.	2.4	12
78	Pulse transit time as a proxy for vasoconstriction in younger and older adults. Experimental Gerontology, 2020, 135, 110938.	2.8	12
79	Temporal characteristics of working memory for spatial relations: An ERP study. International Journal of Psychophysiology, 2010, 77, 83-94.	1.0	11
80	Freezing of gait detection in Parkinsonâ€™s disease via multimodal analysis of EEG and accelerometer signals. , 2020, 2020, 847-850.		11
81	Multimodal Monitoring of Cardiovascular Responses to Postural Changes. Frontiers in Physiology, 2020, 11, 168.	2.8	11
82	Enhancing Emotion Recognition in VIPs with Haptic Feedback. Communications in Computer and Information Science, 2016, , 157-163.	0.5	11
83	Sparse pallidal connections shape synchrony in a network model of the basal ganglia. European Journal of Neuroscience, 2017, 45, 1000-1012.	2.6	10
84	Consolidation of memory traces in cultured cortical networks requires low cholinergic tone, synchronized activity and high network excitability. Journal of Neural Engineering, 2021, 18, 046051.	3.5	10
85	Cerebral autoregulation assessed by near-infrared spectroscopy: validation using transcranial Doppler in patients with controlled hypertension, cognitive impairment and controls. European Journal of Applied Physiology, 2021, 121, 2165-2176.	2.5	9
86	The future of binocular rivalry research. Advances in Consciousness Research, 2013, , 305-332.	0.2	9
87	Orthostatic blood pressure recovery associates with physical performance, frailty and number of falls in geriatric outpatients. Journal of Hypertension, 2021, 39, 101-106.	0.5	9
88	Gain control and hyperpolarization level in cat horizontal cells as a function of light and dark adaptation. Vision Research, 1996, 36, 3969-3985.	1.4	8
89	Responses of Complex Cells in Cat Area 17 to Apparent Motion of Random Pixel Arrays. Vision Research, 1997, 37, 839-852.	1.4	8
90	An illusory transformation of optic flow fields without local motion interactions. Vision Research, 2006, 46, 439-443.	1.4	8

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91	Dynamics of temporally interleaved percept-choice sequences: interaction via adaptation in shared neural populations. Journal of Computational Neuroscience, 2012, 32, 177-195.	1.0	8
92	Age-dependency in binocular rivalry is reflected by exclusive percepts, not mixed percepts. Scientific Reports, 2019, 9, 19271.	3.3	8
93	Retinotopic Mapping of Categorical and Coordinate Spatial Relation Processing in Early Visual Cortex. PLoS ONE, 2012, 7, e38644.	2.5	7
94	Changes in low-level neural properties underlie age-dependent visual decision making. Scientific Reports, 2018, 8, 10789.	3.3	7
95	Ultraviolet Functionalization of Electrospun Scaffolds to Activate Fibrous Runways for Targeting Cell Adhesion. Frontiers in Bioengineering and Biotechnology, 2019, 7, 159.	4.1	7
96	Determinants of orthostatic cerebral oxygenation assessed using near-infrared spectroscopy. Autonomic Neuroscience: Basic and Clinical, 2022, 238, 102942.	2.8	7
97	Horizontal cell sensitivity in the cat retina during prolonged dark adaptation. Visual Neuroscience, 1996, 13, 885-896.	1.0	6
98	Intermittent stimulus presentation stabilizes neuronal responses in macaque area MT. Journal of Neurophysiology, 2012, 108, 2101-2114.	1.8	6
99	Nerve Repair: Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies (Adv. Healthcare Mater. 8/2018). Advanced Healthcare Materials, 2018, 7, 1870035.	7.6	6
100	Visual cueing using laser shoes reduces freezing of gait in Parkinson's patients at home. Movement Disorders, 2018, 33, 1664-1665.	3.9	6
101	Tandem electrospinning for heterogeneous nanofiber patterns. Biofabrication, 2020, 12, 025010.	7.1	6
102	The role of motion capture in an illusory transformation of optic flow fields. Journal of Vision, 2008, 8, 27.	0.3	5
103	Opto-locomotor reflexes of mice to reverse-phi stimuli. Journal of Vision, 2020, 20, 7.	0.3	4
104	The Beneficial Effects of Conventional Visual Cues Are Retained When Augmented Reality Glasses Are Worn. Parkinson's Disease, 2020, 2020, 1-3.	1.1	4
105	Dynamics of a Mutual Inhibition Circuit between Pyramidal Neurons Compared to Human Perceptual Competition. Journal of Neuroscience, 2021, 41, 1251-1264.	3.6	4
106	Spatial asymmetries in cat retinal ganglion cell responses. Biological Cybernetics, 1998, 79, 151-159.	1.3	3
107	Motion Processing: How Low Can You Go?. Current Biology, 2003, 13, R840-R842.	3.9	3
108	Temporal integration of focus position signal during compensation for pursuit in optic flow. Journal of Vision, 2010, 10, 14-14.	0.3	3

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109	Changes in fMRI BOLD dynamics reflect anticipation to moving objects. NeuroImage, 2017, 161, 188-195.	4.2	3
110	A Oneâ€Step Biofunctionalization Strategy of Electrospun Scaffolds Enables Spatially Selective Presentation of Biological Cues. Advanced Materials Technologies, 2020, 5, 2000269.	5.8	3
111	Emotion Recognition with Simulated Phosphene Vision. , 2019, , .		3
112	Spatial Integration in Coherent Motion Detection and in the Movement Aftereffect. Perception, 1994, 23, 1189-1195.	1.2	2
113	Response to: staircase climbing is not solely a visual compensation strategy to alleviate freezing of gait in Parkinsonâ€™s disease. Journal of Neurology, 2017, 264, 177-178.	3.6	2
114	Orthostatic Blood Pressure Recovery Measured Using a Sphygmomanometer Is Not Associated with Physical Performance or Number of Falls in Geriatric Outpatients. Gerontology, 2022, 68, 75-79.	2.8	2
115	Temporal dynamics of decisions on spatial categories and distances do not differ. Brain and Cognition, 2009, 69, 209-217.	1.8	1
116	Synchronization of the parkinsonian globus pallidus by gap junctions. BMC Neuroscience, 2014, 15, .	1.9	1
117	Photoacoustic staging of nodal metastases using SPIOs: Comparison between in vivo, inÂtoto and ex vivo imaging in a rat model. Biomedical Spectroscopy and Imaging, 2017, 5, 71-87.	1.2	1
118	Opportunities and Pitfalls in Applying Emotion Recognition Software for Persons With a Visual Impairment: Simulated Real Life Conversations. JMIR MHealth and UHealth, 2019, 7, e13722.	3.7	1
119	Distance Estimation Is Influenced by Encoding Conditions. PLoS ONE, 2010, 5, e9918.	2.5	0
120	Photoacoustic intra-operative nodal staging using clinically approved superparamagnetic iron oxide nanoparticles. Proceedings of SPIE, 2013, , .	0.8	0
121	Best practice for passaging murine embryonic enteric neuronal cell line before differentiation. Cytotechnology, 2016, 68, 2379-2388.	1.6	0
122	Response to: On the role of visual electrophysiology in parkinson's disease. Parkinsonism and Related Disorders, 2017, 45, 98.	2.2	0
123	Perceptual Coupling Based on Depth and Motion Cues in Stereovision-Impaired Subjects. Perception, 2020, 49, 1101-1114.	1.2	0
124	Visual cues from augmented reality glasses to improve gait of Parkinson's disease patients. Journal of Vision, 2016, 16, 770.	0.3	0
125	Levelt's propositions examined at the level of mutually inhibiting pyramidal cells in primary visual cortex. Journal of Vision, 2018, 18, 537.	0.3	0