Hamish Gavin MacDougall

List of Publications by Year
in descending order

122 papers	6,048 citations	71097 41 h-index	76898 74 g-index
123 all docs	123 docs citations	123 times ranked	4019 citing authors

#	Article	IF	Citations
1	Ambulatory monitoring of freezing of gait in Parkinson's disease. Journal of Neuroscience Methods, 2008, 167, 340-348.	2.5	424
2	The Video Head Impulse Test. Frontiers in Neurology, 2017, 8, 258.	2.4	384
3	The Video Head Impulse Test (vHIT) of Semicircular Canal Function â€“ Age-Dependent Normative Values of VOR Gain in Healthy Subjects. Frontiers in Neurology, 2015, 6, 154.	2.4	303
4	Impulsive Testing of Semicircularâ€Canal Function Using Videoâ€oculography. Annals of the New York Academy of Sciences, 2009, 1164, 486-491.	3.8	239
5	The Video Head Impulse Test (vHIT) Detects Vertical Semicircular Canal Dysfunction. PLoS ONE, 2013, 8, e61488.	2.5	225
6	Marching to the beat of the same drummer: the spontaneous tempo of human locomotion. Journal of Applied Physiology, 2005, 99, 1164-1173.	2.5	197
7	Ocular vestibular evoked myogenic potentials to bone conducted vibration of the midline forehead at Fz in healthy subjects. Clinical Neurophysiology, 2008, 119, 2135-2147.	1.5	195
8	Long-term monitoring of gait in Parkinson's disease. Gait and Posture, 2007, 26, 200-207.	1.4	177
9	Autonomous identification of freezing of gait in Parkinson's disease from lower-body segmental accelerometry. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 19.	4.6	159
10	What does the dissociation between the results of video head impulse versus caloric testing reveal about the vestibular dysfunction in MÃ©niÃ¨reâ€™s disease?. Acta Oto-Laryngologica, 2015, 135, 859-865.	0.9	141
11	Cerebellar ataxia, neuropathy, vestibular areflexia syndrome (CANVAS): a review of the clinical features and videoâ€oculographic diagnosis. Annals of the New York Academy of Sciences, 2011, 1233, 139-147.	3.8	122
12	Interruption management in the intensive care unit: Predicting resumption times and assessing distributed support.. Journal of Experimental Psychology: Applied, 2010, 16, 317-334.	1.2	120
13	Application of the Video Head Impulse Test to Detect Vertical Semicircular Canal Dysfunction. Otology and Neurotology, 2013, 34, 974-979.	1.3	118
14	A new saccadic indicator of peripheral vestibular function based on the video head impulse test. Neurology, 2016, 87, 410-418.	1.1	110
15	Proposed diagnostic criteria for cerebellar ataxia with neuropathy and vestibular areflexia syndrome (CANVAS). Neurology: Clinical Practice, 2016, 6, 61-68.	1.6	110
16	Ocular Vestibular Evoked Myogenic Potentials in Response to Bone-Conducted Vibration of the Midline Forehead at Fz. Audiology and Neuro-Otology, 2008, 13, 396-404.	1.3	109
17	Plasticity during Vestibular Compensation: The Role of Saccades. Frontiers in Neurology, 2012, 3, 21.	2.4	97
18	Gentamicin ototoxicity: a 23â€year selected case series of 103 patients. Medical Journal of Australia, 2012, 196, 701-704.	1.7	88

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19	Maintained ocular torsion produced by bilateral and unilateral galvanic (DC) vestibular stimulation in humans. Experimental Brain Research, 1998, 122, 453-458.	1.5	83
20	Understanding the psychophysiology of flow: A driving simulator experiment to investigate the relationship between flow and heart rate variability. Computers in Human Behavior, 2015, 52, 408-418.	8.5	83
21	Sustained and Transient Vestibular Systems: A Physiological Basis for Interpreting Vestibular Function. Frontiers in Neurology, 2017, 8, 117.	2.4	82
22	Electrophysiological evidence for vestibular activation of the guinea pig hippocampus. NeuroReport, 2000, 11, 1443-1447.	1.2	80
23	What Galvanic Vestibular Stimulation Actually Activates. Frontiers in Neurology, 2012, 3, 117.	2.4	77
24	Neural basis of new clinical vestibular tests: otolithic neural responses to sound and vibration. Clinical and Experimental Pharmacology and Physiology, 2014, 41, 371-380.	1.9	73
25	CANVAS an update: Clinical presentation, investigation and management. Journal of Vestibular Research: Equilibrium and Orientation, 2014, 24, 465-474.	2.0	71
26	Capturing acute vertigo. Neurology, 2019, 92, e2743-e2753.	1.1	70
27	Between-subject variability and within-subject reliability of the human eye-movement response to bilateral galvanic (DC) vestibular stimulation. Experimental Brain Research, 2002, 144, 69-78.	1.5	66
28	What does the head impulse test versus caloric dissociation reveal about vestibular dysfunction in MÃ©niÃ¨re's disease?. Annals of the New York Academy of Sciences, 2015, 1343, 58-62.	3.8	66
29	Vibration-induced ocular torsion and nystagmus after unilateral vestibular deafferentation. Brain, 2003, 126, 956-964.	7.6	62
30	Effects of Galvanic vestibular stimulation on cognitive function. Experimental Brain Research, 2012, 216, 275-285.	1.5	60
31	Electrical activation of the human vestibulo-sympathetic reflex. Experimental Brain Research, 2006, 171, 251-261.	1.5	59
32	Modeling postural instability with Galvanic vestibular stimulation. Experimental Brain Research, 2006, 172, 208-220.	1.5	59
33	The basis for using boneâ€conducted vibration or airâ€conducted sound to test otolithic function. Annals of the New York Academy of Sciences, 2011, 1233, 231-241.	3.8	59
34	Decreased otolith-mediated vestibular response in 25 astronauts induced by long-duration spaceflight. Journal of Neurophysiology, 2016, 115, 3045-3051.	1.8	58
35	Variability in the control of head movements in seated humans: a link with whiplash injuries?. Journal of Physiology, 2001, 532, 851-868.	2.9	52
36	Causes and characteristics of horizontal positional nystagmus. Journal of Neurology, 2014, 261, 1009-1017.	3.6	51

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37	Long-duration spaceflight adversely affects post-landing operator proficiency. Scientific Reports, 2019, 9, 2677.	3.3	49
38	The Planes of the Utricular and Saccular Maculae of the Guinea Pig. Annals of the New York Academy of Sciences, 1999, 871, 27-34.	3.8	47
39	Cyclooxygenaseâ€2 in the Pathogenesis of Murine Cerebral Malaria. Journal of Infectious Diseases, 2004, 189, 751-758.	4.0	45
40	Maintaining Balance when Looking at a Virtual Reality Three-Dimensional Display of a Field of Moving Dots or at a Virtual Reality Scene. Frontiers in Neurology, 2015, 6, 164.	2.4	45
41	Modeling locomotor dysfunction following spaceflight with Galvanic vestibular stimulation. Experimental Brain Research, 2006, 174, 647-659.	1.5	43
42	Dysfunctional vestibular system causes a blood pressure drop in astronauts returning from space. Scientific Reports, 2015, 5, 17627.	3.3	43
43	Central Adaptation to Repeated Galvanic Vestibular Stimulation: Implications for Pre-Flight Astronaut Training. PLoS ONE, 2014, 9, e112131.	2.5	43
44	Linearity, symmetry and additivity of the human eye-movement response to maintained unilateral and bilateral surface galvanic (DC) vestibular stimulation. Experimental Brain Research, 2003, 148, 166-175.	1.5	41
45	Rapid fluctuations in dynamic semicircular canal function in early MÃ©niÃ¨reâ€™s disease. European Archives of Oto-Rhino-Laryngology, 2011, 268, 637-639.	1.6	41
46	Inexpensive system for real-time 3-dimensional video-oculography using a fluorescent marker array. Journal of Neuroscience Methods, 2005, 143, 141-150.	2.5	40
47	Galvanic Vestibular Stimulation as an Analogue of Spatial Disorientation After Spaceflight. Aviation, Space, and Environmental Medicine, 2011, 82, 535-542.	0.5	40
48	Virtual reality as a patient education tool in healthcare: A scoping review. Patient Education and Counseling, 2022, 105, 1928-1942.	2.2	40
49	Human Ocular Counterrolling During Roll-Tilt and Centrifugation. Annals of the New York Academy of Sciences, 1999, 871, 173-180.	3.8	37
50	Patient and Normal Three-dimensional Eye-Movement Responses to Maintained (DC) Surface Galvanic Vestibular Stimulation. Otology and Neurotology, 2005, 26, 500-511.	1.3	37
51	Balance in Virtual Reality: Effect of Age and Bilateral Vestibular Loss. Frontiers in Neurology, 2017, 8, 5.	2.4	37
52	Validation of 24-hour ambulatory gait assessment in Parkinson's disease with simultaneous video observation. BioMedical Engineering OnLine, 2011, 10, 82.	2.7	36
53	Horizontal Eye Position Affects Measured Vertical VOR Gain on the Video Head Impulse Test. Frontiers in Neurology, 2015, 6, 58.	2.4	35
54	Objective verification of full recovery of dynamic vestibular function after superior vestibular neuritis. Laryngoscope, 2011, 121, 2496-2500.	2.0	34

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55	An objective measure for the visual fidelity of virtual reality and the risks of falls in a virtual environment. Virtual Reality, 2016, 20, 173-181.	6.1	33
56	Functional Assessment of Head???Eye Coordination During Vehicle Operation. Optometry and Vision Science, 2005, 82, 706-715.	1.2	32
57	Prospective memory in the ICU: the effect of visual cues on task execution in a representative simulation. Ergonomics, 2013, 56, 579-589.	2.1	30
58	Locomotor response to levodopa in fluctuating Parkinsonâ€™s disease. Experimental Brain Research, 2008, 184, 469-478.	1.5	29
59	Errors of Binocular Fixation are Common in Normal Subjects during Natural Conditions. Optometry and Vision Science, 2003, 80, 764-771.	1.2	28
60	Enhanced otolithic function in semicircular canal dehiscence. Acta Oto-Laryngologica, 2011, 131, 107-112.	0.9	28
61	Effect of Stimulus Rise-Time on the Ocular Vestibular-Evoked Myogenic Potential to Bone-Conducted Vibration. Ear and Hearing, 2013, 34, 799-805.	2.1	28
62	Changes in ocular torsion position produced by a single visual line rotating around the line of sightâ€“â€“visual â€œentrainmentâ€•of ocular torsion. Vision Research, 2004, 44, 397-406.	1.4	25
63	Virtual Reality for Teletherapy: Avatars May Combine the Benefits of Face-to-Face Communication with the Anonymity of Online Text-Based Communication. Cyberpsychology, Behavior, and Social Networking, 2019, 22, 158-165.	3.9	25
64	New, fast, clinical vestibular tests identify whether a vertigo attack is due to early MÃ©niÃ¨re's disease or vestibular neuritis. Laryngoscope, 2013, 123, 507-511.	2.0	23
65	Strabismus Measurements with Novel Video Goggles. Ophthalmology, 2017, 124, 1849-1856.	5.2	23
66	Head-Eye Coordination During Simulated Orbiter Landing. Aviation, Space, and Environmental Medicine, 2008, 79, 888-898.	0.5	22
67	Electrotactile Feedback of Sway Position Improves Postural Performance during Galvanic Vestibular Stimulation. Annals of the New York Academy of Sciences, 2009, 1164, 492-498.	3.8	22
68	Effects of head-down bed rest and artificial gravity on spatial orientation. Experimental Brain Research, 2010, 204, 617-622.	1.5	22
69	Vertical and horizontal eye movement responses to unilateral and bilateral bone conducted vibration to the mastoid. Journal of Vestibular Research: Equilibrium and Orientation, 2009, 19, 41-47.	2.0	19
70	Galvanic Vestibular Stimulation: A new model of placebo-induced nausea. Journal of Psychosomatic Research, 2015, 78, 484-488.	2.6	19
71	Pre-adaptation to noisy Galvanic vestibular stimulation is associated with enhanced sensorimotor performance in novel vestibular environments. Frontiers in Systems Neuroscience, 2015, 9, 88.	2.5	18
72	Driving on ice: impaired driving skills in current methamphetamine users. Psychopharmacology, 2013, 225, 161-172.	3.1	17

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73	Selective otolith dysfunctions objectively verified. Journal of Vestibular Research: Equilibrium and Orientation, 2014, 24, 365-373.	2.0	17
74	Convergence reduces ocular counterroll (OCR) during static roll-tilt. Vision Research, 2004, 44, 2825-2833.	1.4	15
75	Testing Human Otolith Function Using Boneâ€Conducted Vibration. Annals of the New York Academy of Sciences, 2009, 1164, 344-346.	3.8	15
76	Î¼VEMP: A Portable Interface to Record Vestibular Evoked Myogenic Potentials (VEMPs) With a Smart Phone or Tablet. Frontiers in Neurology, 2018, 9, 543.	2.4	15
77	Applications of brain imaging methods in driving behaviour research. Accident Analysis and Prevention, 2021, 154, 106093.	5.7	15
78	Unilateral Vestibular Loss Due to Systemically Administered Gentamicin. Otology and Neurotology, 2011, 32, 1158-1162.	1.3	14
79	Imbalance: Objective measures versus subjective self-report in clinical practice. Gait and Posture, 2018, 59, 217-221.	1.4	14
80	Neck muscle vibration alters visually-perceived roll after unilateral vestibular loss. NeuroReport, 2000, 11, 2659-2662.	1.2	13
81	Psychophysiological correlates of the inter-individual variability of head movement control in seated humans. Gait and Posture, 2006, 23, 355-363.	1.4	13
82	Onâ€Road Assessment of Driving Performance in Bilateral Vestibularâ€Deficient Patients. Annals of the New York Academy of Sciences, 2009, 1164, 413-418.	3.8	13
83	Semicircular canal occlusion causes permanent VOR changes. NeuroReport, 2000, 11, 2527-2531.	1.2	12
84	Tolerance to Extended Galvanic Vestibular Stimulation: Optimal Exposure for Astronaut Training. Aviation, Space, and Environmental Medicine, 2011, 82, 770-774.	0.5	12
85	Eye velocity asymmetry, ocular orientation, and convergence induced by angular rotation in the rabbit. Vision Research, 2006, 46, 961-969.	1.4	11
86	Spontaneous Recovery of the Vestibulo-Ocular Reflex After Vestibular Neuritis; Long-Term Monitoring With the Video Head Impulse Test in a Single Patient. Frontiers in Neurology, 2020, 11, 732.	2.4	11
87	Velocity perception in a moving observer. Vision Research, 2017, 138, 12-17.	1.4	9
88	Heart Rate Changes Prior to Freezing of Gait Episodes Are Related to Anxiety. Journal of Parkinson's Disease, 2021, 11, 271-282.	2.8	9
89	Bone conducted vibration to the mastoid produces horizontal, vertical and torsional eye movements. Journal of Vestibular Research: Equilibrium and Orientation, 2015, 25, 91-96.	2.0	8
90	Superior canal dehiscence reveals concomitant unilateral utricular loss (UUL). Acta Oto-Laryngologica, 2015, 135, 557-564.	0.9	8

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91	Examining attentional biases, interpretation biases, and attentional control in people with and without chronic pain. Pain, 2021, 162, 2110-2119.	4.2	8
92	Validation of centrifugation as a countermeasure for otolith deconditioning during spaceflight: Preliminary data of the ESA SPIN study. Journal of Vestibular Research: Equilibrium and Orientation, 2013, 23, 23-31.	2.0	7
93	Vestibular signals of self-motion modulate global motion perception. Vision Research, 2017, 130, 22-30.	1.4	7
94	Vestibular semicircular canal function as detected by video Head Impulse Test (vHIT) is essentially unchanged in people with Parkinsonâ€™s disease compared to healthy controls. Journal of Vestibular Research: Equilibrium and Orientation, 2022, 32, 261-269.	2.0	7
95	Threeâ€Dimensional Eyeâ€Movement Responses to Surface Galvanic Vestibular Stimulation in Normal Subjects and in Patients. Annals of the New York Academy of Sciences, 2002, 956, 546-550.	3.8	6
96	Objective measures of vestibular function during an acute vertigo attack in a very young child. European Archives of Oto-Rhino-Laryngology, 2012, 269, 2589-2592.	1.6	6
97	20 Year Review of Three-dimensional Tools in Otology: Challenges of Translation and Innovation. Otology and Neurotology, 2020, 41, 589-595.	1.3	6
98	The Potential Benefits of Personalized 360 Video Experiences on Affect: A Proof-of-Concept Study. Cyberpsychology, Behavior, and Social Networking, 2020, 23, 134-138.	3.9	6
99	Static and dynamic otolith reflex function in people with Parkinsonâ€™s disease. European Archives of Oto-Rhino-Laryngology, 2021, 278, 2057-2065.	1.6	6
100	A Video Self-Modeling Intervention Using Virtual Reality Plus Physical Practice for Freezing of Gait in Parkinson Disease: Feasibility and Acceptability Study. JMIR Formative Research, 2021, 5, e28315.	1.4	6
101	Can training improve eyewitness identification? The effect of internal feature focus on memory for faces. Psychology, Crime and Law, 2017, 23, 927-945.	1.0	5
102	Subjective visual vertical in virtual reality (Curator SVV): validation and normative data. Virtual Reality, 2018, 22, 315-320.	6.1	5
103	Time dilation effect in an active observer and virtual environment requires apparent motion: No dilation for retinal- or world-motion alone. Journal of Vision, 2019, 19, 4.	0.3	5
104	Video-head impulse test in superior canal dehiscence. Acta Oto-Laryngologica, 2021, 141, 471-475.	0.9	5
105	Suppression head impulse test paradigm (SHIMP) characteristics in people with Parkinsonâ€™s disease compared to healthy controls. Experimental Brain Research, 2021, 239, 1853-1862.	1.5	5
106	Law and (rec)order: Updating memory for criminal events with body-worn cameras. PLoS ONE, 2020, 15, e0243226.	2.5	5
107	Cognitive demand affects the gain of the torsional optokinetic response. Experimental Brain Research, 2004, 158, 125-8.	1.5	4
108	Staircase climbing is not solely a visual compensation strategy to alleviate freezing of gait in Parkinsonâ€™s disease. Journal of Neurology, 2017, 264, 174-176.	3.6	4

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109	Brief localised monocular deprivation in adults alters binocular rivalry predominance retinotopically and reduces spatial inhibition. Scientific Reports, 2020, 10, 18739.	3.3	4
110	The influence of visual feedback on alleviating freezing of gait in Parkinsonâ€™s disease is reduced by anxiety. Gait and Posture, 2022, 95, 70-75.	1.4	4
111	Pupillary Light Reflexes are Associated with Autonomic Dysfunction in Bolivian Diabetics But Not Chagas Disease Patients. American Journal of Tropical Medicine and Hygiene, 2016, 94, 1290-1298.	1.4	3
112	Validating a Seated Virtual Reality Threat Paradigm for Inducing Anxiety and Freezing of Gait in Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2021, 11, 1443-1454.	2.8	3
113	Cochlear implant surgery and perioperative dizziness is associated with utricular hyperfunction. Journal of Vestibular Research: Equilibrium and Orientation, 2022, 32, 295-304.	2.0	2
114	022â€…Patient-initiated event monitoring for acute vertigo. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, A8.2-A8.	1.9	0
115	Vestibular Eye Movement Testing. , 2013, , 1-9.		0
116	Vestibular signals modulate perceptual alternations in binocular rivalry from motion conflict. Journal of Vision, 2018, 18, 952.	0.3	0
117	Motor and vestibular self-motion signals drive perceptual alternations of opposed motions in binocular rivalry. Journal of Vision, 2019, 19, 174c.	0.3	0
118	Law and (rec)order: Updating memory for criminal events with body-worn cameras. , 2020, 15, e0243226.		0
119	Law and (rec)order: Updating memory for criminal events with body-worn cameras. , 2020, 15, e0243226.		0
120	Law and (rec)order: Updating memory for criminal events with body-worn cameras. , 2020, 15, e0243226.		0
121	Law and (rec)order: Updating memory for criminal events with body-worn cameras. , 2020, 15, e0243226.		0
122	Vestibular, Eye Movement Testing. , 2022, , 3524-3531.		0