

Hamish Gavin MacDougall

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

6,048
citations

71102

41
h-index

76900

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. <i>Journal of Neuroscience Methods</i> , 2008, 167, 340-348.	2.5	424
2	The Video Head Impulse Test. <i>Frontiers in Neurology</i> , 2017, 8, 258.	2.4	384
3	The Video Head Impulse Test (vHIT) of Semicircular Canal Function – Age-Dependent Normative Values of VOR Gain in Healthy Subjects. <i>Frontiers in Neurology</i> , 2015, 6, 154.	2.4	303
4	Impulsive Testing of Semicircular Canal Function Using Video Oculography. <i>Annals of the New York Academy of Sciences</i> , 2009, 1164, 486-491.	3.8	239
5	The Video Head Impulse Test (vHIT) Detects Vertical Semicircular Canal Dysfunction. <i>PLoS ONE</i> , 2013, 8, e61488.	2.5	225
6	Marching to the beat of the same drummer: the spontaneous tempo of human locomotion. <i>Journal of Applied Physiology</i> , 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. <i>Clinical Neurophysiology</i> , 2008, 119, 2135-2147.	1.5	195
8	Long-term monitoring of gait in Parkinson's disease. <i>Gait and Posture</i> , 2007, 26, 200-207.	1.4	177
9	Autonomous identification of freezing of gait in Parkinson's disease from lower-body segmental accelerometry. <i>Journal of NeuroEngineering and Rehabilitation</i> , 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 Ménière's disease?. <i>Acta Oto-Laryngologica</i> , 2015, 135, 859-865.	0.9	141
11	Cerebellar ataxia, neuropathy, vestibular areflexia syndrome (CANVAS): a review of the clinical features and video oculographic diagnosis. <i>Annals of the New York Academy of Sciences</i> , 2011, 1233, 139-147.	3.8	122
12	Interruption management in the intensive care unit: Predicting resumption times and assessing distributed support. <i>Journal of Experimental Psychology: Applied</i> , 2010, 16, 317-334.	1.2	120
13	Application of the Video Head Impulse Test to Detect Vertical Semicircular Canal Dysfunction. <i>Otology and Neurotology</i> , 2013, 34, 974-979.	1.3	118
14	A new saccadic indicator of peripheral vestibular function based on the video head impulse test. <i>Neurology</i> , 2016, 87, 410-418.	1.1	110
15	Proposed diagnostic criteria for cerebellar ataxia with neuropathy and vestibular areflexia syndrome (CANVAS). <i>Neurology: Clinical Practice</i> , 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. <i>Audiology and Neuro-Otology</i> , 2008, 13, 396-404.	1.3	109
17	Plasticity during Vestibular Compensation: The Role of Saccades. <i>Frontiers in Neurology</i> , 2012, 3, 21.	2.4	97
18	Gentamicin ototoxicity: a 23-year selected case series of 103 patients. <i>Medical Journal of Australia</i> , 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. <i>Experimental Brain Research</i> , 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. <i>Computers in Human Behavior</i> , 2015, 52, 408-418.	8.5	83
21	Sustained and Transient Vestibular Systems: A Physiological Basis for Interpreting Vestibular Function. <i>Frontiers in Neurology</i> , 2017, 8, 117.	2.4	82
22	Electrophysiological evidence for vestibular activation of the guinea pig hippocampus. <i>NeuroReport</i> , 2000, 11, 1443-1447.	1.2	80
23	What Galvanic Vestibular Stimulation Actually Activates. <i>Frontiers in Neurology</i> , 2012, 3, 117.	2.4	77
24	Neural basis of new clinical vestibular tests: otolithic neural responses to sound and vibration. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014, 41, 371-380.	1.9	73
25	CANVAS an update: Clinical presentation, investigation and management. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2014, 24, 465-474.	2.0	71
26	Capturing acute vertigo. <i>Neurology</i> , 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. <i>Experimental Brain Research</i> , 2002, 144, 69-78.	1.5	66
28	What does the head impulse test versus caloric dissociation reveal about vestibular dysfunction in Ménière's disease?. <i>Annals of the New York Academy of Sciences</i> , 2015, 1343, 58-62.	3.8	66
29	Vibration-induced ocular torsion and nystagmus after unilateral vestibular deafferentation. <i>Brain</i> , 2003, 126, 956-964.	7.6	62
30	Effects of Galvanic vestibular stimulation on cognitive function. <i>Experimental Brain Research</i> , 2012, 216, 275-285.	1.5	60
31	Electrical activation of the human vestibulo-sympathetic reflex. <i>Experimental Brain Research</i> , 2006, 171, 251-261.	1.5	59
32	Modeling postural instability with Galvanic vestibular stimulation. <i>Experimental Brain Research</i> , 2006, 172, 208-220.	1.5	59
33	The basis for using bone-conducted vibration or air-conducted sound to test otolithic function. <i>Annals of the New York Academy of Sciences</i> , 2011, 1233, 231-241.	3.8	59
34	Decreased otolith-mediated vestibular response in 25 astronauts induced by long-duration spaceflight. <i>Journal of Neurophysiology</i> , 2016, 115, 3045-3051.	1.8	58
35	Variability in the control of head movements in seated humans: a link with whiplash injuries?. <i>Journal of Physiology</i> , 2001, 532, 851-868.	2.9	52
36	Causes and characteristics of horizontal positional nystagmus. <i>Journal of Neurology</i> , 2014, 261, 1009-1017.	3.6	51

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37	Long-duration spaceflight adversely affects post-landing operator proficiency. <i>Scientific Reports</i> , 2019, 9, 2677.	3.3	49
38	The Planes of the Utricular and Saccular Maculae of the Guinea Pig. <i>Annals of the New York Academy of Sciences</i> , 1999, 871, 27-34.	3.8	47
39	Cyclooxygenase-2 in the Pathogenesis of Murine Cerebral Malaria. <i>Journal of Infectious Diseases</i> , 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. <i>Frontiers in Neurology</i> , 2015, 6, 164.	2.4	45
41	Modeling locomotor dysfunction following spaceflight with Galvanic vestibular stimulation. <i>Experimental Brain Research</i> , 2006, 174, 647-659.	1.5	43
42	Dysfunctional vestibular system causes a blood pressure drop in astronauts returning from space. <i>Scientific Reports</i> , 2015, 5, 17627.	3.3	43
43	Central Adaptation to Repeated Galvanic Vestibular Stimulation: Implications for Pre-Flight Astronaut Training. <i>PLoS ONE</i> , 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. <i>Experimental Brain Research</i> , 2003, 148, 166-175.	1.5	41
45	Rapid fluctuations in dynamic semicircular canal function in early Ménière's disease. <i>European Archives of Oto-Rhino-Laryngology</i> , 2011, 268, 637-639.	1.6	41
46	Inexpensive system for real-time 3-dimensional video-oculography using a fluorescent marker array. <i>Journal of Neuroscience Methods</i> , 2005, 143, 141-150.	2.5	40
47	Galvanic Vestibular Stimulation as an Analogue of Spatial Disorientation After Spaceflight. <i>Aviation, Space, and Environmental Medicine</i> , 2011, 82, 535-542.	0.5	40
48	Virtual reality as a patient education tool in healthcare: A scoping review. <i>Patient Education and Counseling</i> , 2022, 105, 1928-1942.	2.2	40
49	Human Ocular Counterrolling During Roll-Tilt and Centrifugation. <i>Annals of the New York Academy of Sciences</i> , 1999, 871, 173-180.	3.8	37
50	Patient and Normal Three-dimensional Eye-Movement Responses to Maintained (DC) Surface Galvanic Vestibular Stimulation. <i>Otology and Neurotology</i> , 2005, 26, 500-511.	1.3	37
51	Balance in Virtual Reality: Effect of Age and Bilateral Vestibular Loss. <i>Frontiers in Neurology</i> , 2017, 8, 5.	2.4	37
52	Validation of 24-hour ambulatory gait assessment in Parkinson's disease with simultaneous video observation. <i>BioMedical Engineering OnLine</i> , 2011, 10, 82.	2.7	36
53	Horizontal Eye Position Affects Measured Vertical VOR Gain on the Video Head Impulse Test. <i>Frontiers in Neurology</i> , 2015, 6, 58.	2.4	35
54	Objective verification of full recovery of dynamic vestibular function after superior vestibular neuritis. <i>Laryngoscope</i> , 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. <i>Virtual Reality</i> , 2016, 20, 173-181.	6.1	33
56	Functional Assessment of Head-Eye Coordination During Vehicle Operation. <i>Optometry and Vision Science</i> , 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. <i>Ergonomics</i> , 2013, 56, 579-589.	2.1	30
58	Locomotor response to levodopa in fluctuating Parkinson's disease. <i>Experimental Brain Research</i> , 2008, 184, 469-478.	1.5	29
59	Errors of Binocular Fixation are Common in Normal Subjects during Natural Conditions. <i>Optometry and Vision Science</i> , 2003, 80, 764-771.	1.2	28
60	Enhanced otolithic function in semicircular canal dehiscence. <i>Acta Oto-Laryngologica</i> , 2011, 131, 107-112.	0.9	28
61	Effect of Stimulus Rise-Time on the Ocular Vestibular-Evoked Myogenic Potential to Bone-Conducted Vibration. <i>Ear and Hearing</i> , 2013, 34, 799-805.	2.1	28
62	Changes in ocular torsion position produced by a single visual line rotating around the line of sight-visual-ocular entrainment of ocular torsion. <i>Vision Research</i> , 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. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2019, 22, 158-165.	3.9	25
64	New, fast, clinical vestibular tests identify whether a vertigo attack is due to early Ménière's disease or vestibular neuritis. <i>Laryngoscope</i> , 2013, 123, 507-511.	2.0	23
65	Strabismus Measurements with Novel Video Goggles. <i>Ophthalmology</i> , 2017, 124, 1849-1856.	5.2	23
66	Head-Eye Coordination During Simulated Orbiter Landing. <i>Aviation, Space, and Environmental Medicine</i> , 2008, 79, 888-898.	0.5	22
67	Electrotactile Feedback of Sway Position Improves Postural Performance during Galvanic Vestibular Stimulation. <i>Annals of the New York Academy of Sciences</i> , 2009, 1164, 492-498.	3.8	22
68	Effects of head-down bed rest and artificial gravity on spatial orientation. <i>Experimental Brain Research</i> , 2010, 204, 617-622.	1.5	22
69	Vertical and horizontal eye movement responses to unilateral and bilateral bone conducted vibration to the mastoid. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2009, 19, 41-47.	2.0	19
70	Galvanic Vestibular Stimulation: A new model of placebo-induced nausea. <i>Journal of Psychosomatic Research</i> , 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. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 88.	2.5	18
72	Driving on ice: impaired driving skills in current methamphetamine users. <i>Psychopharmacology</i> , 2013, 225, 161-172.	3.1	17

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73	Selective otolith dysfunctions objectively verified. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2014, 24, 365-373.	2.0	17
74	Convergence reduces ocular counterroll (OCR) during static roll-tilt. <i>Vision Research</i> , 2004, 44, 2825-2833.	1.4	15
75	Testing Human Otolith Function Using Bone-Conducted Vibration. <i>Annals of the New York Academy of Sciences</i> , 2009, 1164, 344-346.	3.8	15
76	¼VEMP: A Portable Interface to Record Vestibular Evoked Myogenic Potentials (VEMPs) With a Smart Phone or Tablet. <i>Frontiers in Neurology</i> , 2018, 9, 543.	2.4	15
77	Applications of brain imaging methods in driving behaviour research. <i>Accident Analysis and Prevention</i> , 2021, 154, 106093.	5.7	15
78	Unilateral Vestibular Loss Due to Systemically Administered Gentamicin. <i>Otology and Neurotology</i> , 2011, 32, 1158-1162.	1.3	14
79	Imbalance: Objective measures versus subjective self-report in clinical practice. <i>Gait and Posture</i> , 2018, 59, 217-221.	1.4	14
80	Neck muscle vibration alters visually-perceived roll after unilateral vestibular loss. <i>NeuroReport</i> , 2000, 11, 2659-2662.	1.2	13
81	Psychophysiological correlates of the inter-individual variability of head movement control in seated humans. <i>Gait and Posture</i> , 2006, 23, 355-363.	1.4	13
82	On-Road Assessment of Driving Performance in Bilateral Vestibular-Deficient Patients. <i>Annals of the New York Academy of Sciences</i> , 2009, 1164, 413-418.	3.8	13
83	Semicircular canal occlusion causes permanent VOR changes. <i>NeuroReport</i> , 2000, 11, 2527-2531.	1.2	12
84	Tolerance to Extended Galvanic Vestibular Stimulation: Optimal Exposure for Astronaut Training. <i>Aviation, Space, and Environmental Medicine</i> , 2011, 82, 770-774.	0.5	12
85	Eye velocity asymmetry, ocular orientation, and convergence induced by angular rotation in the rabbit. <i>Vision Research</i> , 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. <i>Frontiers in Neurology</i> , 2020, 11, 732.	2.4	11
87	Velocity perception in a moving observer. <i>Vision Research</i> , 2017, 138, 12-17.	1.4	9
88	Heart Rate Changes Prior to Freezing of Gait Episodes Are Related to Anxiety. <i>Journal of Parkinson's Disease</i> , 2021, 11, 271-282.	2.8	9
89	Bone conducted vibration to the mastoid produces horizontal, vertical and torsional eye movements. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2015, 25, 91-96.	2.0	8
90	Superior canal dehiscence reveals concomitant unilateral utricular loss (UUL). <i>Acta Oto-Laryngologica</i> , 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. <i>Pain</i> , 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. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2013, 23, 23-31.	2.0	7
93	Vestibular signals of self-motion modulate global motion perception. <i>Vision Research</i> , 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 Parkinson's disease compared to healthy controls. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2022, 32, 261-269.	2.0	7
95	Three-Dimensional Eye-Movement Responses to Surface Galvanic Vestibular Stimulation in Normal Subjects and in Patients. <i>Annals of the New York Academy of Sciences</i> , 2002, 956, 546-550.	3.8	6
96	Objective measures of vestibular function during an acute vertigo attack in a very young child. <i>European Archives of Oto-Rhino-Laryngology</i> , 2012, 269, 2589-2592.	1.6	6
97	20 Year Review of Three-dimensional Tools in Otology: Challenges of Translation and Innovation. <i>Otology and Neurotology</i> , 2020, 41, 589-595.	1.3	6
98	The Potential Benefits of Personalized 360 Video Experiences on Affect: A Proof-of-Concept Study. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2020, 23, 134-138.	3.9	6
99	Static and dynamic otolith reflex function in people with Parkinson's disease. <i>European Archives of Oto-Rhino-Laryngology</i> , 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. <i>JMIR Formative Research</i> , 2021, 5, e28315.	1.4	6
101	Can training improve eyewitness identification? The effect of internal feature focus on memory for faces. <i>Psychology, Crime and Law</i> , 2017, 23, 927-945.	1.0	5
102	Subjective visual vertical in virtual reality (Curator SVV): validation and normative data. <i>Virtual Reality</i> , 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. <i>Journal of Vision</i> , 2019, 19, 4.	0.3	5
104	Video-head impulse test in superior canal dehiscence. <i>Acta Oto-Laryngologica</i> , 2021, 141, 471-475.	0.9	5
105	Suppression head impulse test paradigm (SHIMP) characteristics in people with Parkinson's disease compared to healthy controls. <i>Experimental Brain Research</i> , 2021, 239, 1853-1862.	1.5	5
106	Law and (re)order: Updating memory for criminal events with body-worn cameras. <i>PLoS ONE</i> , 2020, 15, e0243226.	2.5	5
107	Cognitive demand affects the gain of the torsional optokinetic response. <i>Experimental Brain Research</i> , 2004, 158, 125-8.	1.5	4
108	Staircase climbing is not solely a visual compensation strategy to alleviate freezing of gait in Parkinson's disease. <i>Journal of Neurology</i> , 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. <i>Scientific Reports</i> , 2020, 10, 18739.	3.3	4
110	The influence of visual feedback on alleviating freezing of gait in Parkinson's disease is reduced by anxiety. <i>Gait and Posture</i> , 2022, 95, 70-75.	1.4	4
111	Pupillary Light Reflexes are Associated with Autonomic Dysfunction in Bolivian Diabetics But Not Chagas Disease Patients. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 94, 1290-1298.	1.4	3
112	Validating a Seated Virtual Reality Threat Paradigm for Inducing Anxiety and Freezing of Gait in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2021, 11, 1443-1454.	2.8	3
113	Cochlear implant surgery and perioperative dizziness is associated with utricular hyperfunction. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2022, 32, 295-304.	2.0	2
114	022...Patient-initiated event monitoring for acute vertigo. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 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. <i>Journal of Vision</i> , 2018, 18, 952.	0.3	0
117	Motor and vestibular self-motion signals drive perceptual alternations of opposed motions in binocular rivalry. <i>Journal of Vision</i> , 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