

# Michael G Harrington

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

5,286  
citations

236612

25  
h-index

114278

63  
g-index

107  
all docs

107  
docs citations

107  
times ranked

7803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood-Brain Barrier Breakdown in the Aging Human Hippocampus. <i>Neuron</i> , 2015, 85, 296-302.	3.8	1,436
2	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. <i>Nature Medicine</i> , 2019, 25, 270-276.	15.2	987
3	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. <i>Nature</i> , 2020, 581, 71-76.	13.7	705
4	Vascular dysfunction—The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 158-167.	0.4	454
5	No-reflow phenomenon in the heart and brain. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H550-H562.	1.5	142
6	White Matter Lipids as a Ketogenic Fuel Supply in Aging Female Brain: Implications for Alzheimer's Disease. <i>EBioMedicine</i> , 2015, 2, 1888-1904.	2.7	118
7	Association of Docosahexaenoic Acid Supplementation With Alzheimer Disease Stage in Apolipoprotein E $\epsilon$ 4 Carriers. <i>JAMA Neurology</i> , 2017, 74, 339.	4.5	111
8	Identification of Disease Markers in Human Cerebrospinal Fluid Using Lipidomic and Proteomic Methods. <i>Disease Markers</i> , 2006, 22, 39-64.	0.6	103
9	Human Cerebrospinal Fluid Fatty Acid Levels Differ between Supernatant Fluid and Brain-Derived Nanoparticle Fractions, and Are Altered in Alzheimer's Disease. <i>PLoS ONE</i> , 2014, 9, e100519.	1.1	95
10	Executive Function Changes before Memory in Preclinical Alzheimer's Pathology: A Prospective, Cross-Sectional, Case Control Study. <i>PLoS ONE</i> , 2013, 8, e79378.	1.1	76
11	Brain delivery of supplemental docosahexaenoic acid (DHA): A randomized placebo-controlled clinical trial. <i>EBioMedicine</i> , 2020, 59, 102883.	2.7	70
12	The morphology and biochemistry of nanostructures provide evidence for synthesis and signaling functions in human cerebrospinal fluid. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 10.	0.5	64
13	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. <i>Alzheimer's and Dementia</i> , 2021, 17, 1528-1553.	0.4	64
14	ABCA1-Mediated Cholesterol Efflux Capacity to Cerebrospinal Fluid Is Reduced in Patients With Mild Cognitive Impairment and Alzheimer's Disease. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	60
15	Sphingolipid Metabolism Correlates with Cerebrospinal Fluid Beta Amyloid Levels in Alzheimer's Disease. <i>PLoS ONE</i> , 2015, 10, e0125597.	1.1	50
16	Cerebrospinal Fluid Sodium Increases in Migraine. <i>Headache</i> , 2006, 46, 1128-1135.	1.8	47
17	Cerebrospinal fluid sodium rhythms. <i>Cerebrospinal Fluid Research</i> , 2010, 7, 3.	0.5	46
18	A novel sensitive assay for detection of a biomarker of pericyte injury in cerebrospinal fluid. <i>Alzheimer's and Dementia</i> , 2020, 16, 821-830.	0.4	43

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19	White matter hypointensities and hyperintensities have equivalent correlations with age and CSF $\beta$ -amyloid in the nondemented elderly. <i>Brain and Behavior</i> , 2019, 9, e01457.	1.0	39
20	Severe Headache or Migraine History Is Inversely Correlated With Dietary Sodium Intake: NHANES 1999-2004. <i>Headache</i> , 2016, 56, 688-698.	1.8	38
21	Prostaglandin D Synthase Isoforms from Cerebrospinal Fluid Vary with Brain Pathology. <i>Disease Markers</i> , 2006, 22, 73-81.	0.6	37
22	Photoablation of Human Vitreous Opacities by Light-Induced Vapor Nanobubbles. <i>ACS Nano</i> , 2019, 13, 8401-8416.	7.3	36
23	Sodium MRI in a rat migraine model and a NEURON simulation study support a role for sodium in migraine. <i>Cephalalgia</i> , 2011, 31, 1254-1265.	1.8	34
24	Retinal nerve fiber layer thickness predicts CSF amyloid/tau before cognitive decline. <i>PLoS ONE</i> , 2020, 15, e0232785.	1.1	31
25	Capillary Endothelial Na <sup>+</sup> , K <sup>+</sup> , ATPase Transporter Homeostasis and a New Theory for Migraine Pathophysiology. <i>Headache</i> , 2010, 50, 459-478.	1.8	28
26	A pilot study of fluorescence lifetime imaging ophthalmoscopy in preclinical Alzheimer's disease. <i>Eye</i> , 2019, 33, 1271-1279.	1.1	25
27	Extracellular sodium modulates the excitability of cultured hippocampal pyramidal cells. <i>Brain Research</i> , 2011, 1401, 85-94.	1.1	21
28	Alpha desynchronization during simple working memory unmasks pathological aging in cognitively healthy individuals. <i>PLoS ONE</i> , 2019, 14, e0208517.	1.1	20
29	Polyunsaturated Fatty Acid Composition of Cerebrospinal Fluid Fractions Shows Their Contribution to Cognitive Resilience of a Pre-symptomatic Alzheimer's Disease Cohort. <i>Frontiers in Physiology</i> , 2020, 11, 83.	1.3	20
30	Cranial dural permeability of inflammatory nociceptive mediators: Potential implications for animal models of migraine. <i>Cephalalgia</i> , 2017, 37, 1017-1025.	1.8	19
31	Retinal ganglion cell dysfunction in preclinical Alzheimer's disease: an electrophysiologic biomarker signature. <i>Scientific Reports</i> , 2021, 11, 6344.	1.6	19
32	Na,K-ATPase alpha isoforms at the blood-cerebrospinal fluid-trigeminal nerve and blood-retina interfaces in the rat. <i>Fluids and Barriers of the CNS</i> , 2013, 10, 14.	2.4	18
33	Dynamic sodium imaging at ultra-high field reveals progression in a preclinical migraine model. <i>Pain</i> , 2018, 159, 2058-2065.	2.0	18
34	Cerebral sodium ( $^{23}\text{Na}$ ) magnetic resonance imaging in patients with migraine - a case-control study. <i>European Radiology</i> , 2019, 29, 7055-7062.	2.3	18
35	Alpha desynchronization/synchronization during working memory testing is compromised in acute mild traumatic brain injury (mTBI). <i>PLoS ONE</i> , 2018, 13, e0188101.	1.1	16
36	Metabolic assessment of a migraine model using relaxation-enhanced $^1\text{H}$ spectroscopy at ultrahigh field. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1266-1275.	1.9	14

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37	Cerebrospinal fluid phospholipase C activity increases in migraine. <i>Cephalalgia</i> , 2011, 31, 456-462.	1.8	13
38	Endogenous Na <sup>+</sup> , K <sup>+</sup> -ATPase inhibitors and CSF [Na <sup>+</sup> ] contribute to migraine formation. <i>PLoS ONE</i> , 2019, 14, e0218041.	1.1	13
39	Evidence that bloodâ€‘CSF barrier transport, but not inflammatory biomarkers, change in migraine, while CSF sVCAM1 associates with migraine frequency and CSF fibrinogen. <i>Headache</i> , 2021, 61, 536-545.	1.8	13
40	Cerebrospinal Fluid Biomarkers in Primary Headache Disorders. <i>Headache</i> , 2006, 46, 1075-1087.	1.8	12
41	Urine dicarboxylic acids change in pre-symptomatic Alzheimerâ€™s disease and reflect loss of energy capacity and hippocampal volume. <i>PLoS ONE</i> , 2020, 15, e0231765.	1.1	12
42	Lipid Metabolism in Late-Onset Alzheimerâ€™s Disease Differs from Patients Presenting with Other Dementia Phenotypes. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1995.	1.2	11
43	Accumulation of Cerebrospinal Fluid Glycerophospholipids and Sphingolipids in Cognitively Healthy Participants With Alzheimerâ€™s Biomarkers Precedes Lipolysis in the Dementia Stage. <i>Frontiers in Neuroscience</i> , 2020, 14, 611393.	1.4	11
44	Regulation of CSF and Brain Tissue Sodium Levels by the Blood-CSF and Blood-Brain Barriers During Migraine. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 4.	1.2	10
45	Altered brainstem auditory evoked potentials in a rat central sensitization model are similar to those in migraine. <i>Brain Research</i> , 2014, 1563, 110-121.	1.1	9
46	Compromised Behavior and Gamma Power During Working Memory in Cognitively Healthy Individuals With Abnormal CSF Amyloid/Tau. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 574214.	1.7	9
47	Amniotic fluid levels of phospholipase A2 in fetal rats with retinoic acid induced myelomeningocele: the potential â€‘second hitâ€™ in neurologic damage. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 3003-3008.	0.7	6
48	Plasma Lipolysis and Changes in Plasma and Cerebrospinal Fluid Signaling Lipids Reveal Abnormal Lipid Metabolism in Chronic Migraine. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 691733.	1.4	6
49	Regional brain volumes relate to Alzheimerâ€™s disease cerebrospinal fluid biomarkers and neuropsychometry: A cross-sectional, observational study. <i>PLoS ONE</i> , 2021, 16, e0254332.	1.1	5
50	Severe Headache or Migraine History Is Inversely Correlated With Dietary Sodium Intake: NHANES 1999â€“2004: A Response. <i>Headache</i> , 2016, 56, 1216-1218.	1.8	4
51	Refining omegaâ€‘3 supplementation trials in APOE4 carriers for dementia prevention. <i>Alzheimer's and Dementia</i> , 2020, 16, e039029.	0.4	4
52	Cerebrospinal Profiling of Proteins, Lipids, Small Molecules, and Elements: Application to the Study of Migraine Pathophysiology. <i>Headache</i> , 2006, 46, S9-S12.	1.8	3
53	Disease Markers of the Nervous System. <i>Disease Markers</i> , 2006, 22, 1-2.	0.6	2
54	O1â€‘01â€‘06: RETINAL NERVE FIBER LAYER THINNING IN PRECLINICAL ALZHEIMER'S DISEASE USING <i>IN VIVO</i> OPTICAL COHERENCE TOMOGRAPHY: AN INVESTIGATION OF EARLY DETECTION OCULAR BIOMARKERS. <i>Alzheimer's and Dementia</i> , 2018, 14, P214.	0.4	2

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55	Nonconformist tendencies related to risky choices in female methamphetamine abstainers. American Journal of Drug and Alcohol Abuse, 2020, 46, 68-77.	1.1	2
56	Searching for a traumatic brain injury biomarker to aid clinical decision making in the emergency department. EBioMedicine, 2020, 56, 102798.	2.7	2
57	Boston Naming Test Predicts Deterioration Of Cerebrospinal Fluid Biomarkers In Pre-symptomatic Alzheimer's Disease. FASEB Journal, 2018, 32, 545.1.	0.2	2
58	A study of alpha desynchronization, heart rate, and MRI during stroop testing unmasks pre-symptomatic Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e042793.	0.4	1
59	MRI Automated T1 Signal Intensity Detection of Diffuse Brain Manganese Accumulation in Cirrhosis. Journal of Neuroimaging, 2021, 31, 186-191.	1.0	1
60	Correlation of Neural Oscillations during Stroop Testing with Hippocampal and Amygdala Volume differ between Cognitively Healthy Normal Aging and Pre-symptomatic Alzheimer's Disease. FASEB Journal, 2020, 34, 1-1.	0.2	1
61	Human Cerebrospinal Fluid. , 2004, , 341-353.		0
62	Blood Serum Alpha Fetoprotein Enhancer Binding Protein, a Tumor Suppressor, Decreases in Chronic HBV Hepatitis Patients as Hepatocellular Cancer Appears. Disease Markers, 2010, 28, 125-135.	0.6	0
63	Sodium 3D COncentration MApping (COMA 3D) using 23Na and proton MRI. Journal of Magnetic Resonance, 2014, 247, 88-95.	1.2	0
64	P2-17: Perimenopause in APOE4 Brain: Accelerated Myelin Catabolism for Fuel. Alzheimer's and Dementia, 2016, 12, P656.	0.4	0
65	[P4-010]: THE ABCA1 AGONIST (CS6253) REVERSES APOE4 HYPOLIPIDATION IN ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P1257.	0.4	0
66	P1-21: RETINAL GANGLION CELL AND INNER PLEXIFORM LAYER THINNING IN PRE-CLINICAL ALZHEIMER'S DISEASE USING <i>IN VIVO</i> OPTICAL COHERENCE TOMOGRAPHY: ASSESSING EARLY DETECTION OF OCULAR BIOMARKERS. Alzheimer's and Dementia, 2018, 14, P317.	0.4	0
67	P4-587: REGIONAL BRAIN VOLUMES RELATION TO ALZHEIMER'S DISEASE PATHOLOGY AND NEUROPSYCHOLOGICAL EXAMINATION. Alzheimer's and Dementia, 2019, 15, P1546.	0.4	0
68	O3-01: INTERACTION BETWEEN OBESITY, BRAIN HDL, AND APOE4 GENOTYPE IN CEREBRAL AMYLOIDOSIS. Alzheimer's and Dementia, 2019, 15, P875.	0.4	0
69	Plasma glutamate metabolism correlates with cognitive function and the brain-adipose axis in a presymptomatic Alzheimer's cohort. Alzheimer's and Dementia, 2020, 16, e038353.	0.4	0
70	Dietary supplementation results in a significant incorporation of DHA into RBC phosphatidylcholine of non-APOE $\mu$ 4 allele but not for $\mu$ 4 carriers. Alzheimer's and Dementia, 2020, 16, e038354.	0.4	0
71	Implicit response incompatibility slowed down asymptomatic individuals with Alzheimer's disease pathology. Alzheimer's and Dementia, 2020, 16, e044884.	0.4	0
72	Heart rate and blood pressure decreases after a motor task in pre-symptomatic AD. Alzheimer's and Dementia, 2020, 16, e045521.	0.4	0

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73	Urine dicarboxylic acids reflect loss of energy capacity and hippocampal volume in pre-symptomatic Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e046021.	0.4	0
74	Heart rate variability changes during task shifting testing in pre-symptomatic Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e046599.	0.4	0
75	Altered Permeability Of The Blood-CSF Barrier In Chronic Migraine. <i>FASEB Journal</i> , 2018, 32, 922.6-922.6.	0.2	0
76	Working memory testing reveals neuroplasticity acutely and longitudinally after mild traumatic brain injury (mTBI). <i>FASEB Journal</i> , 2018, 32, 878.5.	0.2	0
77	Quantitative EEG during memory testing indicates pre-symptomatic Alzheimer's disease and correlation with MRI. <i>FASEB Journal</i> , 2018, 32, 878.6.	0.2	0
78	Plasma metalloproteinase-9 (MMP9) changes in acute mild traumatic brain injury (mTBI) and correlates with quantitative EEG. <i>FASEB Journal</i> , 2018, 32, 526.38.	0.2	0
79	Gamma Power during Working Memory in Pre-symptomatic Alzheimer's Disease Differs from Normal Healthy Aging. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
80	Urine dicarboxylic acids are metabolic biomarkers of early Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0
81	Understanding early Alzheimer's disease pathology by combining neurochemicals with EEG. <i>Alzheimer's and Dementia</i> , 2021, 17, e057486.	0.4	0
82	Title is missing!. , 2020, 15, e0231765.		0
83	Title is missing!. , 2020, 15, e0231765.		0
84	Title is missing!. , 2020, 15, e0231765.		0
85	Title is missing!. , 2020, 15, e0231765.		0
86	Retinal nerve fiber layer thickness predicts CSF amyloid/tau before cognitive decline. , 2020, 15, e0232785.		0
87	Retinal nerve fiber layer thickness predicts CSF amyloid/tau before cognitive decline. , 2020, 15, e0232785.		0
88	Retinal nerve fiber layer thickness predicts CSF amyloid/tau before cognitive decline. , 2020, 15, e0232785.		0
89	Retinal nerve fiber layer thickness predicts CSF amyloid/tau before cognitive decline. , 2020, 15, e0232785.		0
90	High-dose triglyceride DHA supplementation increases plasma and cerebrospinal fluid phospholipid DHA species.. <i>Alzheimer's and Dementia</i> , 2021, 17 Suppl 3, e055544.	0.4	0