

# Gene E Alexander

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114 papers	9,567 citations	53 h-index	97 g-index
126 ext. papers	10,851 ext. citations	6.9 avg, IF	5.45 L-index

#	Paper	IF	Citations
114	Exposure to air pollution and risk of incident dementia in the UK Biobank.. <i>Environmental Research</i> , <b>2022</b> , 112895	7.9	3
113	Proximal improvement and higher-order resting state network change after multidomain cognitive training intervention in healthy older adults.. <i>GeroScience</i> , <b>2022</b> , 1	8.9	1
112	Higher white matter hyperintensity load adversely affects pre-post proximal cognitive training performance in healthy older adults.. <i>GeroScience</i> , <b>2022</b> , 1	8.9	
111	The association between head motion during functional magnetic resonance imaging and executive functioning in older adults. <i>NeuroImage Reports</i> , <b>2022</b> , 2, 100085		0
110	Association of Air Pollution and Physical Activity With Brain Volumes. <i>Neurology</i> , <b>2021</b> ,	6.5	2
109	Differences between young and older adults in unity and diversity of executive functions. <i>Aging, Neuropsychology, and Cognition</i> , <b>2021</b> , 28, 829-854	2.1	6
108	Frontal White Matter Hyperintensities and Executive Functioning Performance in Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 672535	5.3	3
107	Independent Contributions of Dorsolateral Prefrontal Structure and Function to Working Memory in Healthy Older Adults. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 1732-1743	5.1	6
106	Influence of regional white matter hyperintensity volume and apolipoprotein E $\epsilon 4$ status on hippocampal volume in healthy older adults. <i>Hippocampus</i> , <b>2021</b> , 31, 469-480	3.5	1
105	Higher-order resting state network association with the useful field of view task in older adults. <i>GeroScience</i> , <b>2021</b> , 1	8.9	1
104	Cingulo-opercular and frontoparietal control network connectivity and executive functioning in older adults.. <i>GeroScience</i> , <b>2021</b> , 1	8.9	1
103	Effects of simultaneous cognitive and aerobic exercise training on dual-task walking performance in healthy older adults: results from a pilot randomized controlled trial. <i>BMC Geriatrics</i> , <b>2020</b> , 20, 83	4.1	10
102	The Role of Resting-State Network Functional Connectivity in Cognitive Aging. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 177	5.3	20
101	Right hippocampal volume mediation of subjective memory complaints differs by hypertension status in healthy aging. <i>Neurobiology of Aging</i> , <b>2020</b> , 94, 271-280	5.6	10
100	Pourquoi le sport fait du bien au cerveau <b>2020</b> , N°123, 76-81		
99	Age-Related Regional Network Covariance of Magnetic Resonance Imaging Gray Matter in the Rat. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 267	5.3	5
98	Interaction of Age and Self-reported Physical Sports Activity on White Matter Hyperintensity Volume in Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 576025	5.3	4

97	Contributions of Hippocampal Volume to Cognition in Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 593833	5.3	7
96	Structural Neural Correlates of Double Decision Performance in Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 278	5.3	6
95	Ageing and physical function in East African foragers and pastoralists. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190608	5.8	4
94	Differential associations of engagement in physical activity and estimated cardiorespiratory fitness with brain volume in middle-aged to older adults. <i>Brain Imaging and Behavior</i> , <b>2020</b> , 14, 1994-2003	4.1	13
93	Gradual hypertension induction in middle-aged Cyp1a1-Ren2 transgenic rats produces significant impairments in spatial learning. <i>Physiological Reports</i> , <b>2019</b> , 7, e14010	2.6	2
92	Fractal Complexity of Daily Physical Activity Patterns Differs With Age Over the Life Span and Is Associated With Mortality in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 1461-1467	6.4	6
91	Predicting Imminent Progression to Clinically Significant Memory Decline Using Volumetric MRI and FDG PET. <i>Journal of Alzheimer's Disease</i> , <b>2018</b> , 63, 603-615	4.3	9
90	Genome-wide association study of habitual physical activity in over 377,000 UK Biobank participants identifies multiple variants including CADM2 and APOE. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 1161-1176	5.5	109
89	Augmenting cognitive training in older adults (The ACT Study): Design and Methods of a Phase III tDCS and cognitive training trial. <i>Contemporary Clinical Trials</i> , <b>2018</b> , 65, 19-32	2.3	37
88	In response to: 'Information bias in measures of self-reported physical activity'. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 2064-2065	5.5	
87	Adaptive Capacity: An Evolutionary Neuroscience Model Linking Exercise, Cognition, and Brain Health. <i>Trends in Neurosciences</i> , <b>2017</b> , 40, 408-421	13.3	92
86	An Emerging Role for Imaging White Matter in the Preclinical Risk for Alzheimer Disease: Linking $\beta$ Amyloid to Myelin. <i>JAMA Neurology</i> , <b>2017</b> , 74, 17-19	17.2	8
85	Blood Pressure Control in Aging Predicts Cerebral Atrophy Related to Small-Vessel White Matter Lesions. <i>Frontiers in Aging Neuroscience</i> , <b>2017</b> , 9, 132	5.3	20
84	Interactive effects of subjective memory complaints and hypertension on learning and memory performance in the elderly. <i>Aging, Neuropsychology, and Cognition</i> , <b>2016</b> , 23, 154-70	2.1	11
83	Differences in Resting State Functional Connectivity between Young Adult Endurance Athletes and Healthy Controls. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 610	3.3	36
82	Exercise, APOE genotype, and the evolution of the human lifespan. <i>Trends in Neurosciences</i> , <b>2014</b> , 37, 247-55	13.3	75
81	Higher serum glucose levels are associated with cerebral hypometabolism in Alzheimer regions. <i>Neurology</i> , <b>2013</b> , 80, 1557-64	6.5	68
80	Posterior cingulate glucose metabolism, hippocampal glucose metabolism, and hippocampal volume in cognitively normal, late-middle-aged persons at 3 levels of genetic risk for Alzheimer disease. <i>JAMA Neurology</i> , <b>2013</b> , 70, 320-5	17.2	98

79	Separating lexical-semantic access from other mnemonic processes in picture-name verification. <i>Frontiers in Psychology</i> , <b>2013</b> , 4, 706	3.4	4
78	Association between an Alzheimer's Disease-Related Index and APOE $\epsilon$ Gene Dose. <i>PLoS ONE</i> , <b>2013</b> , 8, e67163	3.7	13
77	Brain imaging and fluid biomarker analysis in young adults at genetic risk for autosomal dominant Alzheimer's disease in the presenilin 1 E280A kindred: a case-control study. <i>Lancet Neurology</i> , <b>2012</b> , 11, 1048-56	24.1	347
76	Gray matter network associated with risk for Alzheimer's disease in young to middle-aged adults. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 2723-32	5.6	60
75	Correlations between FDG PET glucose uptake-MRI gray matter volume scores and apolipoprotein E $\epsilon$ gene dose in cognitively normal adults: a cross-validation study using voxel-based multi-modal partial least squares. <i>NeuroImage</i> , <b>2012</b> , 60, 2316-22	7.9	31
74	Challenges and opportunities for characterizing cognitive aging across species. <i>Frontiers in Aging Neuroscience</i> , <b>2012</b> , 4, 6	5.3	10
73	Characterizing cognitive aging of working memory and executive function in animal models. <i>Frontiers in Aging Neuroscience</i> , <b>2012</b> , 4, 19	5.3	103
72	Characterizing cognitive aging in humans with links to animal models. <i>Frontiers in Aging Neuroscience</i> , <b>2012</b> , 4, 21	5.3	64
71	Accurate measurement of brain changes in longitudinal MRI scans using tensor-based morphometry. <i>NeuroImage</i> , <b>2011</b> , 57, 5-14	7.9	71
70	Characterizing Alzheimer's disease using a hypometabolic convergence index. <i>NeuroImage</i> , <b>2011</b> , 56, 52-60	7.9	122
69	Hypometabolism in Alzheimer-affected brain regions in cognitively healthy Latino individuals carrying the apolipoprotein E epsilon4 allele. <i>Archives of Neurology</i> , <b>2010</b> , 67, 462-8		73
68	Mapping Alzheimer's disease progression in 1309 MRI scans: power estimates for different inter-scan intervals. <i>NeuroImage</i> , <b>2010</b> , 51, 63-75	7.9	64
67	Twelve-month metabolic declines in probable Alzheimer's disease and amnesic mild cognitive impairment assessed using an empirically pre-defined statistical region-of-interest: findings from the Alzheimer's Disease Neuroimaging Initiative. <i>NeuroImage</i> , <b>2010</b> , 51, 654-64	7.9	122
66	Evidence for an association between KIBRA and late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2010</b> , 31, 901-9	5.6	78
65	Higher serum total cholesterol levels in late middle age are associated with glucose hypometabolism in brain regions affected by Alzheimer's disease and normal aging. <i>NeuroImage</i> , <b>2010</b> , 49, 169-76	7.9	50
64	Age-related networks of regional covariance in MRI gray matter: reproducible multivariate patterns in healthy aging. <i>NeuroImage</i> , <b>2010</b> , 49, 1750-9	7.9	82
63	Imaging systems level consolidation of novel associate memories: a longitudinal neuroimaging study. <i>NeuroImage</i> , <b>2010</b> , 50, 826-36	7.9	15
62	Comparing 3 T and 1.5 T MRI for tracking Alzheimer's disease progression with tensor-based morphometry. <i>Human Brain Mapping</i> , <b>2010</b> , 31, 499-514	5.9	60

61	Assessing the reliability to detect cerebral hypometabolism in probable Alzheimer's disease and amnesic mild cognitive impairment. <i>Journal of Neuroscience Methods</i> , <b>2010</b> , 192, 277-85	3	12
60	Fibrillar amyloid-beta burden in cognitively normal people at 3 levels of genetic risk for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 6820-5	11.5	591
59	Longitudinal modeling of age-related memory decline and the APOE epsilon4 effect. <i>New England Journal of Medicine</i> , <b>2009</b> , 361, 255-63	59.2	388
58	Categorical and correlational analyses of baseline fluorodeoxyglucose positron emission tomography images from the Alzheimer's Disease Neuroimaging Initiative (ADNI). <i>NeuroImage</i> , <b>2009</b> , 45, 1107-16	7.9	223
57	Alzheimer's disease neuroimaging initiative: a one-year follow up study using tensor-based morphometry correlating degenerative rates, biomarkers and cognition. <i>NeuroImage</i> , <b>2009</b> , 45, 645-55	7.9	137
56	Linking functional and structural brain images with multivariate network analyses: a novel application of the partial least square method. <i>NeuroImage</i> , <b>2009</b> , 47, 602-10	7.9	55
55	Optimizing power to track brain degeneration in Alzheimer's disease and mild cognitive impairment with tensor-based morphometry: an ADNI study of 515 subjects. <i>NeuroImage</i> , <b>2009</b> , 48, 668-81	7.9	110
54	Intensity non-uniformity correction using N3 on 3-T scanners with multichannel phased array coils. <i>NeuroImage</i> , <b>2008</b> , 39, 1752-62	7.9	110
53	Cholesterol-related genetic risk scores are associated with hypometabolism in Alzheimer's-affected brain regions. <i>NeuroImage</i> , <b>2008</b> , 40, 1214-21	7.9	26
52	3D characterization of brain atrophy in Alzheimer's disease and mild cognitive impairment using tensor-based morphometry. <i>NeuroImage</i> , <b>2008</b> , 41, 19-34	7.9	135
51	Age-related regional network of magnetic resonance imaging gray matter in the rhesus macaque. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 2710-8	6.6	64
50	Correlating cerebral hypometabolism with future memory decline in subsequent converters to amnesic pre-mild cognitive impairment. <i>Archives of Neurology</i> , <b>2008</b> , 65, 1231-6		72
49	Gene expression profiles in anatomically and functionally distinct regions of the normal aged human brain. <i>Physiological Genomics</i> , <b>2007</b> , 28, 311-22	3.6	184
48	Cognitive performance in older women relative to ApoE-epsilon4 genotype and aerobic fitness. <i>Medicine and Science in Sports and Exercise</i> , <b>2007</b> , 39, 199-207	1.2	89
47	Cognitive domain decline in healthy apolipoprotein E epsilon4 homozygotes before the diagnosis of mild cognitive impairment. <i>Archives of Neurology</i> , <b>2007</b> , 64, 1306-11		118
46	Correlations between apolipoprotein E epsilon4 gene dose and whole brain atrophy rates. <i>American Journal of Psychiatry</i> , <b>2007</b> , 164, 916-21	11.9	88
45	GAB2 alleles modify Alzheimer's risk in APOE epsilon4 carriers. <i>Neuron</i> , <b>2007</b> , 54, 713-20	13.9	405
44	An automated normative-based fluorodeoxyglucose positron emission tomography image-analysis procedure to aid Alzheimer disease diagnosis using statistical parametric mapping and interactive image display <b>2006</b> , 6144, 1638		1

43	Network analysis of single-subject fMRI during a finger opposition task. <i>NeuroImage</i> , <b>2006</b> , 32, 325-32	7.9	28
42	Longitudinal stability of MRI for mapping brain change using tensor-based morphometry. <i>NeuroImage</i> , <b>2006</b> , 31, 627-40	7.9	183
41	A preliminary fluorodeoxyglucose positron emission tomography study in healthy adults reporting dream-enactment behavior. <i>Sleep</i> , <b>2006</b> , 29, 927-33	1.1	44
40	Regional network of magnetic resonance imaging gray matter volume in healthy aging. <i>NeuroReport</i> , <b>2006</b> , 17, 951-6	1.7	64
39	Correlations between apolipoprotein E epsilon4 gene dose and brain-imaging measurements of regional hypometabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8299-302	11.5	314
38	Functional brain abnormalities in young adults at genetic risk for late-onset Alzheimer's dementia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 284-9	11.5	773
37	Age-related cortical grey matter reductions in non-demented Down's syndrome adults determined by MRI with voxel-based morphometry. <i>Brain</i> , <b>2004</b> , 127, 811-24	11.2	115
36	A distinctive interaction between chronic anxiety and problem solving in asymptomatic APOE e4 homozygotes. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , <b>2004</b> , 16, 320-9	2.7	31
35	Positron Emission Tomography and Magnetic Resonance Imaging in the Study of Cognitively Normal Persons at Differential Genetic Risk for Alzheimer's Dementia <b>2004</b> , 151-177		1
34	Resting state brain glucose metabolism is not reduced in normotensive healthy men during aging, after correction for brain atrophy. <i>Brain Research Bulletin</i> , <b>2004</b> , 63, 147-54	3.9	55
33	An automated algorithm for the computation of brain volume change from sequential MRIs using an iterative principal component analysis and its evaluation for the assessment of whole-brain atrophy rates in patients with probable Alzheimer's disease. <i>NeuroImage</i> , <b>2004</b> , 22, 134-43	7.9	36
32	Relation of corpus callosum and hippocampal size to age in nondemented adults with Down's syndrome. <i>American Journal of Psychiatry</i> , <b>2003</b> , 160, 1870-8	11.9	83
31	Monte-Carlo based neuroimaging set-level multiple-comparison correction. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 11-15		1
30	Construction of mouse brain MRI templates using SPM 99. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 113-118		1
29	A Distinctive Interaction Between Memory and Chronic Daytime Somnolence in Asymptomatic APOE e4 Homozygotes. <i>Sleep</i> , <b>2002</b> , 25, 437-443	1.1	15
28	Apolipoprotein E and intellectual achievement. <i>Journal of the American Geriatrics Society</i> , <b>2002</b> , 50, 49-54	5.6	9
27	Relation of medial temporal lobe volumes to age and memory function in nondemented adults with Down's syndrome: implications for the prodromal phase of Alzheimer's disease. <i>American Journal of Psychiatry</i> , <b>2002</b> , 159, 74-81	11.9	90
26	Longitudinal PET Evaluation of Cerebral Metabolic Decline in Dementia: A Potential Outcome Measure in Alzheimer's Disease Treatment Studies. <i>American Journal of Psychiatry</i> , <b>2002</b> , 159, 738-45	11.9	379

25	Progression of corpus callosum atrophy in Alzheimer disease. <i>Archives of Neurology</i> , <b>2002</b> , 59, 243-8		139
24	Age transformation of combined hippocampus and amygdala volume improves diagnostic accuracy in Alzheimer's disease. <i>Journal of the Neurological Sciences</i> , <b>2002</b> , 194, 15-9	3.2	40
23	A distinctive interaction between memory and chronic daytime somnolence in asymptomatic APOE e4 homozygotes. <i>Sleep</i> , <b>2002</b> , 25, 447-53	1.1	13
22	Tracking the decline in cerebral glucose metabolism in persons and laboratory animals at genetic risk for Alzheimer's disease. <i>Clinical Neuroscience Research</i> , <b>2001</b> , 1, 194-206		18
21	Positron emission tomography in evaluation of dementia: Regional brain metabolism and long-term outcome. <i>JAMA - Journal of the American Medical Association</i> , <b>2001</b> , 286, 2120-7	27.4	636
20	Preclinical cognitive decline in late middle-aged asymptomatic apolipoprotein E-e4/4 homozygotes: a replication study. <i>Journal of the Neurological Sciences</i> , <b>2001</b> , 189, 93-8	3.2	52
19	The effect of brain atrophy on cerebral hypometabolism in the visual variant of Alzheimer disease. <i>Archives of Neurology</i> , <b>2001</b> , 58, 480-6		60
18	Functional Brain Studies of the Neurometabolic Bases of Cognitive and Behavioral Changes in Alzheimer's Disease <b>2001</b> , 227-242		1
17	Corpus callosum measurement as an in vivo indicator for neocortical neuronal integrity, but not white matter pathology, in Alzheimer's disease. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 903, 470-6	6.5	13
16	Alzheimer disease constricts the dynamic range of spatial attention in visual search. <i>Neuropsychologia</i> , <b>2000</b> , 38, 1126-35	3.2	53
15	Cholinergic enhancement improves performance on working memory by modulating the functional activity in distinct brain regions: a positron emission tomography regional cerebral blood flow study in healthy humans. <i>Brain Research Bulletin</i> , <b>2000</b> , 51, 213-8	3.9	95
14	The neurometabolic landscape of cognitive decline: in vivo studies with positron emission tomography in Alzheimer's disease. <i>International Journal of Psychophysiology</i> , <b>2000</b> , 37, 87-98	2.9	51
13	Individual differences in PET activation of object perception and attention systems predict face matching accuracy. <i>NeuroReport</i> , <b>1999</b> , 10, 1965-71	1.7	40
12	Region-specific corpus callosum atrophy correlates with the regional pattern of cortical glucose metabolism in Alzheimer disease. <i>Archives of Neurology</i> , <b>1999</b> , 56, 467-73		46
11	Volumes of medial temporal lobe structures in patients with Alzheimer's disease and mild cognitive impairment (and in healthy controls). <i>Biological Psychiatry</i> , <b>1998</b> , 43, 60-8	7.9	168
10	Corpus callosum atrophy is a possible indicator of region- and cell type-specific neuronal degeneration in Alzheimer disease: a magnetic resonance imaging analysis. <i>Archives of Neurology</i> , <b>1998</b> , 55, 193-8		150
9	Relation of age and apolipoprotein E to cognitive function in Down syndrome adults. <i>NeuroReport</i> , <b>1997</b> , 8, 1835-40	1.7	33
8	Controlling the focus of spatial attention during visual search: Effects of advanced aging and Alzheimer disease.. <i>Neuropsychology</i> , <b>1997</b> , 11, 3-12	3.8	89

7	Interactive effects of age and hypertension on volumes of brain structures. <i>Stroke</i> , <b>1997</b> , 28, 1410-7	6.7	108
6	Brain cognition and metabolism in Down syndrome adults in association with development of dementia. <i>NeuroReport</i> , <b>1996</b> , 7, 2933-6	1.7	31
5	Visual variant of Alzheimer's disease: Distinctive neuropsychological features.. <i>Neuropsychology</i> , <b>1996</b> , 10, 294-300	3.8	12
4	Abnormal brain glucose metabolism in the delusional misidentification syndromes: a positron emission tomography study in Alzheimer disease. <i>Biological Psychiatry</i> , <b>1995</b> , 38, 438-49	7.9	100
3	Selective impairment of spatial attention during visual search in Alzheimer's disease. <i>NeuroReport</i> , <b>1995</b> , 6, 1861-4	1.7	50
2	Application of the scaled subprofile model to functional imaging in neuropsychiatric disorders: A principal component approach to modeling brain function in disease. <i>Human Brain Mapping</i> , <b>1994</b> , 2, 79-94	5.9	104
1	Inverse relationship between education and parietotemporal perfusion deficit in Alzheimer's disease. <i>Annals of Neurology</i> , <b>1992</b> , 32, 371-5	9.4	384