

# Gene E Alexander

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11613084/gene-e-alexander-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
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	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
113	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
112	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
111	GAB2 alleles modify Alzheimer's risk in APOE epsilon4 carriers. <i>Neuron</i> , <b>2007</b> , 54, 713-20	13.9	405
110	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
109	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
108	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
107	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
106	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
105	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
104	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
103	Longitudinal stability of MRI for mapping brain change using tensor-based morphometry. <i>NeuroImage</i> , <b>2006</b> , 31, 627-40	7.9	183
102	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
101	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
100	Progression of corpus callosum atrophy in Alzheimer disease. <i>Archives of Neurology</i> , <b>2002</b> , 59, 243-8		139
99	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
98	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

97	Characterizing Alzheimer's disease using a hypometabolic convergence index. <i>NeuroImage</i> , <b>2011</b> , 56, 52-60	7.9	122
96	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
95	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
94	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
93	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
92	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
91	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
90	Interactive effects of age and hypertension on volumes of brain structures. <i>Stroke</i> , <b>1997</b> , 28, 1410-7	6.7	108
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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

79	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
78	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
77	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
76	Exercise, APOE genotype, and the evolution of the human lifespan. <i>Trends in Neurosciences</i> , <b>2014</b> , 37, 247-55	13.3	75
75	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
74	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
73	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
72	Higher serum glucose levels are associated with cerebral hypometabolism in Alzheimer regions. <i>Neurology</i> , <b>2013</b> , 80, 1557-64	6.5	68
71	Characterizing cognitive aging in humans with links to animal models. <i>Frontiers in Aging Neuroscience</i> , <b>2012</b> , 4, 21	5.3	64
70	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
69	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
68	Regional network of magnetic resonance imaging gray matter volume in healthy aging. <i>NeuroReport</i> , <b>2006</b> , 17, 951-6	1.7	64
67	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
66	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
65	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
64	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
63	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
62	Alzheimer disease constricts the dynamic range of spatial attention in visual search. <i>Neuropsychologia</i> , <b>2000</b> , 38, 1126-35	3.2	53

61	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
60	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
59	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
58	Selective impairment of spatial attention during visual search in Alzheimer's disease. <i>NeuroReport</i> , <b>1995</b> , 6, 1861-4	1.7	50
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	Network analysis of single-subject fMRI during a finger opposition task. <i>NeuroImage</i> , <b>2006</b> , 32, 325-32	7.9	28
45	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
44	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

43	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
42	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
41	Imaging systems level consolidation of novel associate memories: a longitudinal neuroimaging study. <i>NeuroImage</i> , <b>2010</b> , 50, 826-36	7.9	15
40	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
39	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
38	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
37	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
36	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
35	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
34	Visual variant of Alzheimer's disease: Distinctive neuropsychological features.. <i>Neuropsychology</i> , <b>1996</b> , 10, 294-300	3.8	12
33	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
32	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
31	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
30	Challenges and opportunities for characterizing cognitive aging across species. <i>Frontiers in Aging Neuroscience</i> , <b>2012</b> , 4, 6	5.3	10
29	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
28	Apolipoprotein E and intellectual achievement. <i>Journal of the American Geriatrics Society</i> , <b>2002</b> , 50, 49-54	5.6	9
27	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
26	Contributions of Hippocampal Volume to Cognition in Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 593833	5.3	7



25	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
24	Structural Neural Correlates of Double Decision Performance in Older Adults. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 278	5.3	6
23	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
22	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
21	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
20	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
19	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
18	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
17	Exposure to air pollution and risk of incident dementia in the UK Biobank.. <i>Environmental Research</i> , <b>2022</b> , 112895	7.9	3
16	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
15	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
14	Association of Air Pollution and Physical Activity With Brain Volumes. <i>Neurology</i> , <b>2021</b> ,	6.5	2
13	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
12	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
11	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
10	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
9	Functional Brain Studies of the Neurometabolic Bases of Cognitive and Behavioral Changes in Alzheimer's Disease <b>2001</b> , 227-242		1
8	Influence of regional white matter hyperintensity volume and apolipoprotein E $\epsilon$ status on hippocampal volume in healthy older adults. <i>Hippocampus</i> , <b>2021</b> , 31, 469-480	3.5	1

7	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
6	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
5	Cingulo-opercular and frontoparietal control network connectivity and executive functioning in older adults.. <i>GeroScience</i> , <b>2021</b> , 1	8.9	1
4	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
3	Pourquoi le sport fait du bien au cerveau <b>2020</b> , N°123, 76-81		
2	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	
1	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	