

Karen Anne Mather

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

9,106
citations

66343

42
h-index

51608

86
g-index

129
all docs

129
docs citations

129
times ranked

14912
citing authors

#	ARTICLE	IF	CITATIONS
1	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015, 520, 224-229.	27.8	772
2	New insights into the genetic etiology of Alzheimer's disease and related dementias. <i>Nature Genetics</i> , 2022, 54, 412-436.	21.4	700
3	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	2.1	696
4	Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. <i>Nature Communications</i> , 2018, 9, 2098.	12.8	484
5	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	12.6	450
6	Is Telomere Length a Biomarker of Aging? A Review. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 202-213.	3.6	362
7	The Sydney Memory and Ageing Study (MAS): methodology and baseline medical and neuropsychiatric characteristics of an elderly epidemiological non-demented cohort of Australians aged 70-90 years. <i>International Psychogeriatrics</i> , 2010, 22, 1248-1264.	1.0	286
8	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	12.8	250
9	Common and rare variant association analyses in amyotrophic lateral sclerosis identify 15 risk loci with distinct genetic architectures and neuron-specific biology. <i>Nature Genetics</i> , 2021, 53, 1636-1648.	21.4	223
10	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	14.8	213
11	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. <i>Nature Neuroscience</i> , 2016, 19, 420-431.	14.8	204
12	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019, 51, 1624-1636.	21.4	192
13	Sigma nonopioid intracellular receptor 1 mutations cause frontotemporal lobar degeneration motor neuron disease. <i>Annals of Neurology</i> , 2010, 68, 639-649.	5.3	168
14	Plasma Apolipoprotein Levels Are Associated with Cognitive Status and Decline in a Community Cohort of Older Individuals. <i>PLoS ONE</i> , 2012, 7, e34078.	2.5	158
15	<i>APOE</i> genotype and MRI markers of cerebrovascular disease. <i>Neurology</i> , 2013, 81, 292-300.	1.1	149
16	Large-scale GWAS identifies multiple loci for hand grip strength providing biological insights into muscular fitness. <i>Nature Communications</i> , 2017, 8, 16015.	12.8	149
17	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017, 11, 1497-1514.	2.1	144
18	<i>APOE</i> genotype and cognitive functioning in a large age-stratified population sample. <i>Neuropsychology</i> , 2007, 21, 1-8.	1.3	143

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19	Factors Predicting Reversion from Mild Cognitive Impairment to Normal Cognitive Functioning: A Population-Based Study. <i>PLoS ONE</i> , 2013, 8, e59649.	2.5	143
20	Common variants in Alzheimer's disease and risk stratification by polygenic risk scores. <i>Nature Communications</i> , 2021, 12, 3417.	12.8	140
21	Body mass index is negatively associated with telomere length: a collaborative cross-sectional meta-analysis of 87 observational studies. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 453-475.	4.7	137
22	The Concordance and Heritability of Type 2 Diabetes in 34,166 Twin Pairs From International Twin Registers: The Discordant Twin (DISCOTWIN) Consortium. <i>Twin Research and Human Genetics</i> , 2015, 18, 762-771.	0.6	125
23	The effect of increased genetic risk for Alzheimer's disease on hippocampal and amygdala volume. <i>Neurobiology of Aging</i> , 2016, 40, 68-77.	3.1	115
24	Risk prediction of late-onset Alzheimer's disease implies an oligogenic architecture. <i>Nature Communications</i> , 2020, 11, 4799.	12.8	110
25	Risk Factors for Late-Life Cognitive Decline and Variation with Age and Sex in the Sydney Memory and Ageing Study. <i>PLoS ONE</i> , 2013, 8, e65841.	2.5	93
26	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020, 11, 6285.	12.8	89
27	Circulating microRNAs as Biomarkers of Alzheimer's Disease: A Systematic Review. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 755-766.	2.6	85
28	DNA methylation of the <i>MAPT</i> gene in Parkinson's disease cohorts and modulation by vitamin E <i>In Vitro</i> . <i>Movement Disorders</i> , 2014, 29, 1606-1614.	3.9	79
29	Genetic variants associated with longitudinal changes in brain structure across the lifespan. <i>Nature Neuroscience</i> , 2022, 25, 421-432.	14.8	75
30	Ageing, exceptional longevity and comparisons of the Hannum and Horvath epigenetic clocks. <i>Epigenomics</i> , 2017, 9, 689-700.	2.1	73
31	Review and meta-analysis of genetic polymorphisms associated with exceptional human longevity. <i>Mechanisms of Ageing and Development</i> , 2018, 175, 24-34.	4.6	71
32	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020, 51, 2111-2121.	2.0	71
33	Genome-wide Studies of Verbal Declarative Memory in Nondemented Older People: The Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. <i>Biological Psychiatry</i> , 2015, 77, 749-763.	1.3	67
34	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020, 11, 4796.	12.8	61
35	Risk Profiles for Mild Cognitive Impairment Vary by Age and Sex: The Sydney Memory and Ageing Study. <i>American Journal of Geriatric Psychiatry</i> , 2012, 20, 854-865.	1.2	59
36	Risk Profiles of Subtypes of Mild Cognitive Impairment: The Sydney Memory and Ageing Study. <i>Journal of the American Geriatrics Society</i> , 2012, 60, 24-33.	2.6	56

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37	Association of Copy Number Variation of the 15q11.2 BP1-BP2 Region With Cortical and Subcortical Morphology and Cognition. <i>JAMA Psychiatry</i> , 2020, 77, 420.	11.0	54
38	The association of APOE genotype and cognitive decline in interaction with risk factors in a 65-69 year old community sample. <i>BMC Geriatrics</i> , 2008, 8, 14.	2.7	53
39	Risk Factors for Mild Cognitive Impairment, Dementia and Mortality: The Sydney Memory and Ageing Study. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 388-395.	2.5	53
40	Plasma lipidome is dysregulated in Alzheimer's disease and is associated with disease risk genes. <i>Translational Psychiatry</i> , 2021, 11, 344.	4.8	51
41	Genetic influences on individual differences in longitudinal changes in global and subcortical brain volumes: Results of the ENIGMA plasticity working group. <i>Human Brain Mapping</i> , 2017, 38, 4444-4458.	3.6	51
42	The Sydney Centenarian Study: methodology and profile of centenarians and near-centenarians. <i>International Psychogeriatrics</i> , 2013, 25, 993-1005.	1.0	49
43	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. <i>Molecular Psychiatry</i> , 2020, 25, 584-602.	7.9	49
44	Meta-analysis of genome-wide DNA methylation identifies shared associations across neurodegenerative disorders. <i>Genome Biology</i> , 2021, 22, 90.	8.8	49
45	The Genetics of White Matter Lesions. <i>CNS Neuroscience and Therapeutics</i> , 2011, 17, 525-540.	3.9	45
46	Plasma apolipoproteins and physical and cognitive health in very old individuals. <i>Neurobiology of Aging</i> , 2017, 55, 49-60.	3.1	42
47	No Associations Between Telomere Length and Age-Sensitive Indicators of Physical Function in Mid and Later Life. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 792-799.	3.6	41
48	Systematic review and meta-analysis of genetic studies of late-life depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 75, 129-139.	6.1	41
49	Genome-wide Meta-analysis Finds the ACSL5-ZDHHC6 Locus Is Associated with ALS and Links Weight Loss to the Disease Genetics. <i>Cell Reports</i> , 2020, 33, 108323.	6.4	41
50	Distinct Genetic Influences on Cortical and Subcortical Brain Structures. <i>Scientific Reports</i> , 2016, 6, 32760.	3.3	40
51	White Matter Hyperintensities Are Under Strong Genetic Influence. <i>Stroke</i> , 2016, 47, 1422-1428.	2.0	38
52	Genome-wide study of DNA methylation shows alterations in metabolic, inflammatory, and cholesterol pathways in ALS. <i>Science Translational Medicine</i> , 2022, 14, eabj0264.	12.4	38
53	Differential blood miRNA expression in brain amyloid imaging-defined Alzheimer's disease and controls. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 59.	6.2	35
54	Epigenome-wide meta-analysis of blood DNA methylation and its association with subcortical volumes: findings from the ENIGMA Epigenetics Working Group. <i>Molecular Psychiatry</i> , 2021, 26, 3884-3895.	7.9	34

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55	Cognitive performance and leukocyte telomere length in two narrow age-range cohorts: a population study. <i>BMC Geriatrics</i> , 2010, 10, 62.	2.7	33
56	Genetic and environmental causes of variation in epigenetic aging across the lifespan. <i>Clinical Epigenetics</i> , 2020, 12, 158.	4.1	33
57	Genome-wide association study of circulating interleukin 6 levels identifies novel loci. <i>Human Molecular Genetics</i> , 2021, 30, 393-409.	2.9	32
58	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018, 9, 3945.	12.8	31
59	Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. <i>Neurology</i> , 2019, 92, .	1.1	30
60	Effects of copy number variations on brain structure and risk for psychiatric illness: Large-scale studies from the ENIGMA working groups on CNVs. <i>Human Brain Mapping</i> , 2022, 43, 300-328.	3.6	30
61	Co-expression network analysis of peripheral blood transcriptome identifies dysregulated protein processing in endoplasmic reticulum and immune response in recurrent MDD in older adults. <i>Journal of Psychiatric Research</i> , 2018, 107, 19-27.	3.1	27
62	Grey matter atrophy of basal forebrain and hippocampus in mild cognitive impairment. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 487-493.	1.9	26
63	Differential gene expression in brain and peripheral tissues in depression across the life span: A review of replicated findings. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 71, 281-293.	6.1	26
64	A Meta-Analysis of Genome-Wide Association Studies of Growth Differentiation Factor-15 Concentration in Blood. <i>Frontiers in Genetics</i> , 2018, 9, 97.	2.3	26
65	Significant out-of-sample classification from methylation profile scoring for amyotrophic lateral sclerosis. <i>Npj Genomic Medicine</i> , 2020, 5, 10.	3.8	25
66	The Relationship Between Plasma A β Levels, Cognitive Function and Brain Volumetrics: Sydney Memory and Ageing Study. <i>Current Alzheimer Research</i> , 2016, 13, 243-255.	1.4	25
67	Genetics of ageing-related changes in brain white matter integrity – A review. <i>Ageing Research Reviews</i> , 2013, 12, 391-401.	10.9	24
68	1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. <i>Translational Psychiatry</i> , 2021, 11, 182.	4.8	24
69	The contribution of twins to the study of cognitive ageing and dementia: The Older Australian Twins Study. <i>International Review of Psychiatry</i> , 2013, 25, 738-747.	2.8	23
70	Genetic influence on ageing-related changes in resting-state brain functional networks in healthy adults: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 113, 98-110.	6.1	23
71	Associations between Alzheimer's disease polygenic risk scores and hippocampal subfield volumes in 17,161 UK Biobank participants. <i>Neurobiology of Aging</i> , 2021, 98, 108-115.	3.1	21
72	The role of epigenetics in cognitive ageing. <i>International Journal of Geriatric Psychiatry</i> , 2014, 29, 1162-1171.	2.7	20

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73	Alcohol Consumption and Incident Dementia: Evidence from the Sydney Memory and Ageing Study. <i>Journal of Alzheimer's Disease</i> , 2016, 52, 529-538.	2.6	20
74	Genome-wide significant results identified for plasma apolipoprotein H levels in middle-aged and older adults. <i>Scientific Reports</i> , 2016, 6, 23675.	3.3	20
75	DNA Methylation in the Apolipoprotein-A1 Gene is Associated with Episodic Memory Performance in Healthy Older Individuals. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 175-182.	2.6	19
76	Sydney Memory and Ageing Study: An epidemiological cohort study of brain ageing and dementia. <i>International Review of Psychiatry</i> , 2013, 25, 711-725.	2.8	16
77	IsCHCHD10Pro34Ser pathogenic for frontotemporal dementia and amyotrophic lateral sclerosis?: Figure 1. <i>Brain</i> , 2015, 138, e385-e385.	7.6	16
78	Global and Regional Development of the Human Cerebral Cortex: Molecular Architecture and Occupational Aptitudes. <i>Cerebral Cortex</i> , 2020, 30, 4121-4139.	2.9	16
79	Polygenic risk score analysis for amyotrophic lateral sclerosis leveraging cognitive performance, educational attainment and schizophrenia. <i>European Journal of Human Genetics</i> , 2022, 30, 532-539.	2.8	16
80	Association of SORL1 Gene Variants with Hippocampal and Cerebral Atrophy and Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2014, 11, 558-563.	1.4	16
81	Renin-Angiotensin System Genetic Polymorphisms and Brain White Matter Lesions in Older Australians. <i>American Journal of Hypertension</i> , 2014, 27, 1191-1198.	2.0	15
82	Genetics of hand grip strength in mid to late life. <i>Age</i> , 2015, 37, 9745.	3.0	15
83	Early life affects late-life health through determining DNA methylation across the lifespan: A twin study. <i>EBioMedicine</i> , 2022, 77, 103927.	6.1	15
84	Expression of influenza neuraminidase in baculovirus-infected cells. <i>Virus Research</i> , 1992, 26, 127-139.	2.2	14
85	Gene expression in the aging human brain. <i>Current Opinion in Psychiatry</i> , 2016, 29, 159-167.	6.3	14
86	Concordance between Direct and Imputed APOE Genotypes using 1000 Genomes Data. <i>Journal of Alzheimer's Disease</i> , 2014, 42, 391-393.	2.6	13
87	APOE Genotype Differentially Modulates Plasma Lipids in Healthy Older Individuals, with Relevance to Brain Health. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 703-716.	2.6	13
88	An investigation into early-life stress and cognitive function in older age. <i>International Psychogeriatrics</i> , 2020, 32, 1325-1329.	1.0	13
89	Going around in circles. <i>Current Opinion in Psychiatry</i> , 2020, 33, 141-147.	6.3	13
90	Investigating the influence of KIBRA and CLSTN2 genetic polymorphisms on cross-sectional and longitudinal measures of memory performance and hippocampal volume in older individuals. <i>Neuropsychologia</i> , 2015, 78, 10-17.	1.6	12

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91	Downregulated transferrin receptor in the blood predicts recurrent MDD in the elderly cohort: A fuzzy forests approach. <i>Journal of Affective Disorders</i> , 2020, 267, 42-48.	4.1	12
92	The many ages of man. <i>Current Opinion in Psychiatry</i> , 2019, 32, 130-137.	6.3	10
93	Exceptional Longevity and Polygenic Risk for Cardiovascular Health. <i>Genes</i> , 2019, 10, 227.	2.4	9
94	The influence of rs53576 polymorphism in the oxytocin receptor (<i>OXTR</i>) gene on empathy in healthy adults by subtype and ethnicity: a systematic review and meta-analysis. <i>Reviews in the Neurosciences</i> , 2022, 33, 43-57.	2.9	9
95	Investigating the Genetics of Hippocampal Volume in Older Adults without Dementia. <i>PLoS ONE</i> , 2015, 10, e0116920.	2.5	8
96	Development of a short-form version of the Reading the Mind in the Eyes Test for assessing theory of mind in older adults. <i>International Journal of Geriatric Psychiatry</i> , 2020, 35, 1322-1330.	2.7	8
97	GSK3B and MAPT Polymorphisms Are Associated with Grey Matter and Intracranial Volume in Healthy Individuals. <i>PLoS ONE</i> , 2013, 8, e71750.	2.5	8
98	Genetics of Microstructure of the Corpus Callosum in Older Adults. <i>PLoS ONE</i> , 2014, 9, e113181.	2.5	8
99	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins. <i>ELife</i> , 2020, 9, .	6.0	8
100	Genetic factors and epigenetic mechanisms of longevity: current perspectives. <i>Epigenomics</i> , 2015, 7, 1339-1349.	2.1	7
101	The heritability of amyloid burden in older adults: the Older Australian Twins Study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, 303-308.	1.9	7
102	Tick tock: DNA methylation, the epigenetic clock and exceptional longevity. <i>Epigenomics</i> , 2016, 8, 1577-1582.	2.1	6
103	Unraveling the genetic contributions to complex traits across different ethnic groups. <i>Nature Medicine</i> , 2020, 26, 467-469.	30.7	4
104	Investigating Olfactory Gene Variation and Odour Identification in Older Adults. <i>Genes</i> , 2021, 12, 669.	2.4	4
105	Parental Life Span and Polygenic Risk Score of Longevity Are Associated With White Matter Hyperintensities. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 689-696.	3.6	2
106	Genetic and Environmental Factors in Ageing and Age-Related Disease. <i>Genes</i> , 2022, 13, 396.	2.4	2
107	The prevalence of limbic-predominant age-related TDP43 encephalopathy in the Sydney brain bank. <i>Alzheimer's and Dementia</i> , 2020, 16, e037885.	0.8	1
108	P3-128: Plasma Apolipoproteins and Physical And Cognitive Health in Very Old Individuals. , 2016, 12, P868-P868.		0

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109	05â€04â€06: DIFFERENTIAL EXPRESSION OF SYNAPTIC AND INTERNEURON GENES IN THE AGING HUMAN PREFRONTAL CORTEX. Alzheimer's and Dementia, 2018, 14, P1654.	0.8	0
110	Social cognitive abilities in older adults with mild cognitive impairment and dementia. Alzheimer's and Dementia, 2020, 16, e044231.	0.8	0
111	Sydney Centenarian Study. , 2016, , 1-8.		0
112	Sydney Centenarian Study. , 2017, , 2365-2372.		0