

Karen M Rodrigue

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

11,637
citations

66315

42
h-index

60583

81
g-index

90
all docs

90
docs citations

90
times ranked

13074
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional Brain Changes in Aging Healthy Adults: General Trends, Individual Differences and Modifiers. <i>Cerebral Cortex</i> , 2005, 15, 1676-1689.	1.6	2,331
2	Prevalence of Cerebral Amyloid Pathology in Persons Without Dementia. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 1924.	3.8	1,166
3	Differential aging of the brain: Patterns, cognitive correlates and modifiers. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 730-748.	2.9	953
4	Aging, sexual dimorphism, and hemispheric asymmetry of the cerebral cortex: replicability of regional differences in volume. <i>Neurobiology of Aging</i> , 2004, 25, 377-396.	1.5	617
5	Trajectories of brain aging in middle-aged and older adults: Regional and individual differences. <i>NeuroImage</i> , 2010, 51, 501-511.	2.1	504
6	Prevalence of Amyloid PET Positivity in Dementia Syndromes. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 1939.	3.8	501
7	$\hat{\tau}^2$ -Amyloid burden in healthy aging. <i>Neurology</i> , 2012, 78, 387-395.	1.5	338
8	Alterations in Cerebral Metabolic Rate and Blood Supply across the Adult Lifespan. <i>Cerebral Cortex</i> , 2011, 21, 1426-1434.	1.6	311
9	Hypertension and the Brain: Vulnerability of the Prefrontal Regions and Executive Functions.. <i>Behavioral Neuroscience</i> , 2003, 117, 1169-1180.	0.6	267
10	Vascular health and longitudinal changes in brain and cognition in middle-aged and older adults.. <i>Neuropsychology</i> , 2007, 21, 149-157.	1.0	225
11	Shrinkage of the Entorhinal Cortex over Five Years Predicts Memory Performance in Healthy Adults. <i>Journal of Neuroscience</i> , 2004, 24, 956-963.	1.7	222
12	Risk Factors for $\hat{\tau}^2$ -Amyloid Deposition in Healthy Aging. <i>JAMA Neurology</i> , 2013, 70, 600.	4.5	216
13	Differential aging of the human striatum: longitudinal evidence. <i>American Journal of Neuroradiology</i> , 2003, 24, 1849-56.	1.2	202
14	Age-related differences in regional brain volumes: A comparison of optimized voxel-based morphometry to manual volumetry. <i>Neurobiology of Aging</i> , 2009, 30, 1657-1676.	1.5	198
15	Extrahippocampal Contributions to Age Differences in Human Spatial Navigation. <i>Cerebral Cortex</i> , 2007, 17, 1274-1282.	1.6	165
16	Beta-Amyloid Deposition and the Aging Brain. <i>Neuropsychology Review</i> , 2009, 19, 436-450.	2.5	156
17	Neural Broadening or Neural Attenuation? Investigating Age-Related Dedifferentiation in the Face Network in a Large Lifespan Sample. <i>Journal of Neuroscience</i> , 2012, 32, 2154-2158.	1.7	152
18	Brain Aging and Its Modifiers: Insights from in Vivo Neuromorphometry and Susceptibility Weighted Imaging. <i>Annals of the New York Academy of Sciences</i> , 2007, 1097, 84-93.	1.8	149

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19	Neuroanatomical and cognitive mediators of age-related differences in episodic memory.. <i>Neuropsychology</i> , 2008, 22, 491-507.	1.0	139
20	A harmonized segmentation protocol for hippocampal and parahippocampal subregions: Why do we need one and what are the key goals?. <i>Hippocampus</i> , 2017, 27, 3-11.	0.9	130
21	Genetic and vascular modifiers of age-sensitive cognitive skills: Effects of COMT, BDNF, ApoE, and hypertension.. <i>Neuropsychology</i> , 2009, 23, 105-116.	1.0	129
22	Hippocampal Subfield Volumes: Age, Vascular Risk, and Correlation with Associative Memory. <i>Frontiers in Aging Neuroscience</i> , 2011, 3, 2.	1.7	128
23	Neuroanatomical Correlates of Fluid Intelligence in Healthy Adults and Persons with Vascular Risk Factors. <i>Cerebral Cortex</i> , 2008, 18, 718-726.	1.6	120
24	Age differences in perseveration: Cognitive and neuroanatomical mediators of performance on the Wisconsin Card Sorting Test. <i>Neuropsychologia</i> , 2009, 47, 1200-1203.	0.7	108
25	Age trajectories of functional activation under conditions of low and high processing demands: An adult lifespan fMRI study of the aging brain. <i>NeuroImage</i> , 2015, 104, 21-34.	2.1	97
26	Prevalence Estimates of Amyloid Abnormality Across the Alzheimer Disease Clinical Spectrum. <i>JAMA Neurology</i> , 2022, 79, 228.	4.5	97
27	Influence of sample size and analytic approach on stability and interpretation of brain-behavior correlations in task-related <sc>fMRI</sc> data. <i>Human Brain Mapping</i> , 2021, 42, 204-219.	1.9	93
28	Age-related differences in memory-encoding fMRI responses after accounting for decline in vascular reactivity. <i>NeuroImage</i> , 2013, 78, 415-425.	2.1	92
29	Association of Longitudinal Cognitive Decline With Amyloid Burden in Middle-aged and Older Adults. <i>JAMA Neurology</i> , 2017, 74, 830.	4.5	87
30	Effects of beta-amyloid accumulation on neural function during encoding across the adult lifespan. <i>NeuroImage</i> , 2012, 62, 1-8.	2.1	84
31	The Role of Hippocampal Iron Concentration and Hippocampal Volume in Age-Related Differences in Memory. <i>Cerebral Cortex</i> , 2013, 23, 1533-1541.	1.6	83
32	An fMRI study of episodic encoding across the lifespan: Changes in subsequent memory effects are evident by middle-age. <i>Neuropsychologia</i> , 2013, 51, 448-456.	0.7	75
33	Aging and Longitudinal Change in Perceptual-Motor Skill Acquisition in Healthy Adults. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , 2005, 60, P174-P181.	2.4	70
34	Age-related changes in cerebrovascular reactivity and their relationship to cognition: A four-year longitudinal study. <i>NeuroImage</i> , 2018, 174, 257-262.	2.1	69
35	Arterial-spin-labeling (ASL) perfusion MRI predicts cognitive function in elderly individuals: A 4-year longitudinal study. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 449-458.	1.9	67
36	BDNF val66met polymorphism affects aging of multiple types of memory. <i>Brain Research</i> , 2015, 1612, 104-117.	1.1	65

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37	Differential effects of age and history of hypertension on regional brain volumes and iron. <i>NeuroImage</i> , 2011, 54, 750-759.	2.1	63
38	Age-related reduction of BOLD modulation to cognitive difficulty predicts poorer task accuracy and poorer fluid reasoning ability. <i>NeuroImage</i> , 2017, 147, 262-271.	2.1	62
39	Prevalence of the apolipoprotein E ϵ 4 allele in amyloid β positive subjects across the spectrum of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 913-924.	0.4	58
40	A comparison of physiologic modulators of fMRI signals. <i>Human Brain Mapping</i> , 2013, 34, 2078-2088.	1.9	56
41	Does variability in cognitive performance correlate with frontal brain volume?. <i>NeuroImage</i> , 2013, 64, 209-215.	2.1	53
42	Dynamic range in BOLD modulation: lifespan aging trajectories and association with performance. <i>Neurobiology of Aging</i> , 2017, 60, 153-163.	1.5	49
43	Differential age-related changes in the regional metencephalic volumes in humans: a 5-year follow-up. <i>Neuroscience Letters</i> , 2003, 349, 163-166.	1.0	43
44	Effects of age, genes, and pulse pressure on executive functions in healthy adults. <i>Neurobiology of Aging</i> , 2011, 32, 1124-1137.	1.5	42
45	Differential brain shrinkage over 6 months shows limited association with cognitive practice. <i>Brain and Cognition</i> , 2013, 82, 171-180.	0.8	42
46	White matter deterioration in 15 months: latent growth curve models in healthy adults. <i>Neurobiology of Aging</i> , 2012, 33, 429.e1-429.e5.	1.5	41
47	Hormone replacement therapy and age-related brain shrinkage: regional effects. <i>NeuroReport</i> , 2004, 15, 2531-2534.	0.6	37
48	BDNF val66met polymorphism influences age differences in microstructure of the corpus callosum. <i>Frontiers in Human Neuroscience</i> , 2009, 3, 19.	1.0	37
49	Joint contributions of cortical morphometry and white matter microstructure in healthy brain aging: A partial least squares correlation analysis. <i>Human Brain Mapping</i> , 2019, 40, 5315-5329.	1.9	35
50	Progress update from the hippocampal subfields group. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 439-449.	1.2	34
51	ASL-MRICloud: An online tool for the processing of ASL MRI data. <i>NMR in Biomedicine</i> , 2019, 32, e4051.	1.6	33
52	Discrepancies between fluid and crystallized ability in healthy adults: a behavioral marker of preclinical Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016, 46, 68-75.	1.5	32
53	Both hyper- and hypo-activation to cognitive challenge are associated with increased beta-amyloid deposition in healthy aging: A nonlinear effect. <i>NeuroImage</i> , 2018, 166, 285-292.	2.1	30
54	The role of hippocampal subfield volume and fornix microstructure in episodic memory across the lifespan. <i>Hippocampus</i> , 2019, 29, 1206-1223.	0.9	30

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55	Brain-Derived Neurotrophic Factor Val66Met and Blood Glucose: A Synergistic Effect on Memory. <i>Frontiers in Human Neuroscience</i> , 2008, 2, 12.	1.0	29
56	Neuroanatomical and cognitive mediators of age-related differences in perceptual priming and learning. <i>Neuropsychology</i> , 2009, 23, 475-491.	1.0	28
57	Amyloid deposition in younger adults is linked to episodic memory performance. <i>Neurology</i> , 2016, 87, 2562-2566.	1.5	27
58	Adult Age Differences and the Role of Cognitive Resources in Perceptual-Motor Skill Acquisition: Application of a Multilevel Negative Exponential Model. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , 2010, 65B, 163-173.	2.4	25
59	The effect of beta-amyloid on face processing in young and old adults: A multivariate analysis of the BOLD signal. <i>Human Brain Mapping</i> , 2015, 36, 2514-2526.	1.9	25
60	The association between BOLD-based cerebrovascular reactivity (CVR) and end-tidal CO2 in healthy subjects. <i>NeuroImage</i> , 2020, 207, 116365.	2.1	23
61	Striatal iron content is linked to reduced fronto-striatal brain function under working memory load. <i>NeuroImage</i> , 2020, 210, 116544.	2.1	23
62	Greater BOLD Variability is Associated With Poorer Cognitive Function in an Adult Lifespan Sample. <i>Cerebral Cortex</i> , 2021, 31, 562-574.	1.6	23
63	Synergistic effects of the MTHFR C677T polymorphism and hypertension on spatial navigation. <i>Biological Psychology</i> , 2009, 80, 240-245.	1.1	22
64	APOE ϵ 4 Genotype and Hypertension Modify 8-year Cortical Thinning: Five Occasion Evidence from the Seattle Longitudinal Study. <i>Cerebral Cortex</i> , 2018, 28, 1934-1945.	1.6	21
65	Contributions of White Matter Connectivity and BOLD Modulation to Cognitive Aging: A Lifespan Structure-Function Association Study. <i>Cerebral Cortex</i> , 2020, 30, 1649-1661.	1.6	20
66	Association between subjective memory assessment and associative memory performance: Role of ad risk factors. <i>Psychology and Aging</i> , 2018, 33, 109-118.	1.4	20
67	The Cognitive Consequences of Structural Changes to the Aging Brain. , 2011, , 73-91.		17
68	Genetic predisposition for inflammation exacerbates effects of striatal iron content on cognitive switching ability in healthy aging. <i>NeuroImage</i> , 2019, 185, 471-478.	2.1	14
69	Aerobic exercise training and neurocognitive function in cognitively normal older adults: A one-year randomized controlled trial. <i>Journal of Internal Medicine</i> , 2022, 292, 788-803.	2.7	14
70	Differential Aging Trajectories of Modulation of Activation to Cognitive Challenge in APOE ϵ 4 Groups: Reduced Modulation Predicts Poorer Cognitive Performance. <i>Journal of Neuroscience</i> , 2017, 37, 6894-6901.	1.7	13
71	Beta-amyloid burden predicts poorer mnemonic discrimination in cognitively normal older adults. <i>NeuroImage</i> , 2020, 221, 117199.	2.1	13
72	Fragmented Pictures Revisited: Long-Term Changes in Repetition Priming, Relation to Skill Learning, and the Role of Cognitive Resources. <i>Gerontology</i> , 2007, 53, 148-158.	1.4	11

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73	Frontoparietal cortical thickness mediates the effect of COMT ValMet polymorphism on age-associated executive function. <i>Neurobiology of Aging</i> , 2019, 73, 104-114.	1.5	11
74	Contribution of iron and A β to age differences in entorhinal and hippocampal subfield volume. <i>Neurology</i> , 2020, 95, e2586-e2594.	1.5	11
75	The effect of vascular health factors on white matter microstructure mediates age-related differences in executive function performance. <i>Cortex</i> , 2021, 141, 403-420.	1.1	11
76	Contribution of Cerebrovascular Health to the Diagnosis of Alzheimer Disease. <i>JAMA Neurology</i> , 2013, 70, 438.	4.5	10
77	Increasing beta-amyloid deposition in cognitively healthy aging predicts nonlinear change in BOLD modulation to difficulty. <i>NeuroImage</i> , 2018, 183, 142-149.	2.1	10
78	Functional Connectivity Within and Between <i>n</i> -Back Modulated Regions: An Adult Lifespan Psychophysiological Interaction Investigation. <i>Brain Connectivity</i> , 2021, 11, 103-118.	0.8	8
79	White Matter Microstructure Predicts Focal and Broad Functional Brain Dedifferentiation in Normal Aging. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 1536-1549.	1.1	7
80	Frontostriatal white matter connectivity: age differences and associations with cognition and BOLD modulation. <i>Neurobiology of Aging</i> , 2020, 94, 154-163.	1.5	7
81	Functional magnetic resonance imaging data of incremental increases in visuo-spatial difficulty in an adult lifespan sample. <i>Data in Brief</i> , 2017, 11, 54-60.	0.5	5
82	Cortical thickness mediates the relationship between DRD2 C957T polymorphism and executive function across the adult lifespan. <i>Brain Structure and Function</i> , 2021, 226, 121-136.	1.2	3