

# 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	Prevalence Estimates of Amyloid Abnormality Across the Alzheimer Disease Clinical Spectrum. <i>JAMA Neurology</i> , 2022, 79, 228.	4.5	97
2	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
3	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
4	Influence of sample size and analytic approach on stability and interpretation of brain-behavior correlations in task-related fMRI data. <i>Human Brain Mapping</i> , 2021, 42, 204-219.	1.9	93
5	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
6	Functional Connectivity Within and Between Back Modulated Regions: An Adult Lifespan Psychophysiological Interaction Investigation. <i>Brain Connectivity</i> , 2021, 11, 103-118.	0.8	8
7	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
8	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
9	The association between BOLD-based cerebrovascular reactivity (CVR) and end-tidal CO <sub>2</sub> in healthy subjects. <i>NeuroImage</i> , 2020, 207, 116365.	2.1	23
10	Beta-amyloid burden predicts poorer mnemonic discrimination in cognitively normal older adults. <i>NeuroImage</i> , 2020, 221, 117199.	2.1	13
11	Contribution of iron and A $\beta$ to age differences in entorhinal and hippocampal subfield volume. <i>Neurology</i> , 2020, 95, e2586-e2594.	1.5	11
12	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
13	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
14	Striatal iron content is linked to reduced fronto-striatal brain function under working memory load. <i>NeuroImage</i> , 2020, 210, 116544.	2.1	23
15	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
16	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
17	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
18	ASL-MRICloud: An online tool for the processing of ASL MRI data. <i>NMR in Biomedicine</i> , 2019, 32, e4051.	1.6	33

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19	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
20	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
21	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
22	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
23	Prevalence of the apolipoprotein E $\epsilon 4$ allele in amyloid $\beta$ positive subjects across the spectrum of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 913-924.	0.4	58
24	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
25	APOE $\epsilon 4$ 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
26	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
27	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
28	Association of Longitudinal Cognitive Decline With Amyloid Burden in Middle-aged and Older Adults. <i>JAMA Neurology</i> , 2017, 74, 830.	4.5	87
29	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
30	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
31	Dynamic range in BOLD modulation: lifespan aging trajectories and association with performance. <i>Neurobiology of Aging</i> , 2017, 60, 153-163.	1.5	49
32	Differential Aging Trajectories of Modulation of Activation to Cognitive Challenge in APOE $\epsilon 4$ Groups: Reduced Modulation Predicts Poorer Cognitive Performance. <i>Journal of Neuroscience</i> , 2017, 37, 6894-6901.	1.7	13
33	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
34	Amyloid deposition in younger adults is linked to episodic memory performance. <i>Neurology</i> , 2016, 87, 2562-2566.	1.5	27
35	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
36	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

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37	Prevalence of Cerebral Amyloid Pathology in Persons Without Dementia. JAMA - Journal of the American Medical Association, 2015, 313, 1924.	3.8	1,166
38	Prevalence of Amyloid PET Positivity in Dementia Syndromes. JAMA - Journal of the American Medical Association, 2015, 313, 1939.	3.8	501
39	BDNF val66met polymorphism affects aging of multiple types of memory. Brain Research, 2015, 1612, 104-117.	1.1	65
40	Age trajectories of functional activation under conditions of low and high processing demands: An adult lifespan fMRI study of the aging brain. NeuroImage, 2015, 104, 21-34.	2.1	97
41	A comparison of physiologic modulators of fMRI signals. Human Brain Mapping, 2013, 34, 2078-2088.	1.9	56
42	Age-related differences in memory-encoding fMRI responses after accounting for decline in vascular reactivity. NeuroImage, 2013, 78, 415-425.	2.1	92
43	An fMRI study of episodic encoding across the lifespan: Changes in subsequent memory effects are evident by middle-age. Neuropsychologia, 2013, 51, 448-456.	0.7	75
44	Differential brain shrinkage over 6months shows limited association with cognitive practice. Brain and Cognition, 2013, 82, 171-180.	0.8	42
45	Does variability in cognitive performance correlate with frontal brain volume?. NeuroImage, 2013, 64, 209-215.	2.1	53
46	Risk Factors for $\beta$ -Amyloid Deposition in Healthy Aging. JAMA Neurology, 2013, 70, 600.	4.5	216
47	The Role of Hippocampal Iron Concentration and Hippocampal Volume in Age-Related Differences in Memory. Cerebral Cortex, 2013, 23, 1533-1541.	1.6	83
48	Contribution of Cerebrovascular Health to the Diagnosis of Alzheimer Disease. JAMA Neurology, 2013, 70, 438.	4.5	10
49	$\beta$ -Amyloid burden in healthy aging. Neurology, 2012, 78, 387-395.	1.5	338
50	Neural Broadening or Neural Attenuation? Investigating Age-Related Dedifferentiation in the Face Network in a Large Lifespan Sample. Journal of Neuroscience, 2012, 32, 2154-2158.	1.7	152
51	White matter deterioration in 15 months: latent growth curve models in healthy adults. Neurobiology of Aging, 2012, 33, 429.e1-429.e5.	1.5	41
52	Effects of beta-amyloid accumulation on neural function during encoding across the adult lifespan. NeuroImage, 2012, 62, 1-8.	2.1	84
53	Differential effects of age and history of hypertension on regional brain volumes and iron. NeuroImage, 2011, 54, 750-759.	2.1	63
54	Effects of age, genes, and pulse pressure on executive functions in healthy adults. Neurobiology of Aging, 2011, 32, 1124-1137.	1.5	42

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55	Hippocampal Subfield Volumes: Age, Vascular Risk, and Correlation with Associative Memory. <i>Frontiers in Aging Neuroscience</i> , 2011, 3, 2.	1.7	128
56	Alterations in Cerebral Metabolic Rate and Blood Supply across the Adult Lifespan. <i>Cerebral Cortex</i> , 2011, 21, 1426-1434.	1.6	311
57	The Cognitive Consequences of Structural Changes to the Aging Brain. , 2011, , 73-91.		17
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	Trajectories of brain aging in middle-aged and older adults: Regional and individual differences. <i>NeuroImage</i> , 2010, 51, 501-511.	2.1	504
60	BDNF val66met polymorphism influences age differences in microstructure of the corpus callosum. <i>Frontiers in Human Neuroscience</i> , 2009, 3, 19.	1.0	37
61	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
62	Beta-Amyloid Deposition and the Aging Brain. <i>Neuropsychology Review</i> , 2009, 19, 436-450.	2.5	156
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	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
65	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
66	Neuroanatomical and cognitive mediators of age-related differences in perceptual priming and learning.. <i>Neuropsychology</i> , 2009, 23, 475-491.	1.0	28
67	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
68	Neuroanatomical and cognitive mediators of age-related differences in episodic memory.. <i>Neuropsychology</i> , 2008, 22, 491-507.	1.0	139
69	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
70	Extrahippocampal Contributions to Age Differences in Human Spatial Navigation. <i>Cerebral Cortex</i> , 2007, 17, 1274-1282.	1.6	165
71	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
72	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

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73	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
74	Differential aging of the brain: Patterns, cognitive correlates and modifiers. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 730-748.	2.9	953
75	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
76	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
77	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
78	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
79	Hormone replacement therapy and age-related brain shrinkage: regional effects. <i>NeuroReport</i> , 2004, 15, 2531-2534.	0.6	37
80	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
81	Hypertension and the Brain: Vulnerability of the Prefrontal Regions and Executive Functions.. <i>Behavioral Neuroscience</i> , 2003, 117, 1169-1180.	0.6	267
82	Differential aging of the human striatum: longitudinal evidence. <i>American Journal of Neuroradiology</i> , 2003, 24, 1849-56.	1.2	202