Peter R Rapp

List of Publications by Year
in descending order

69 papers	5,110 citations	109321 35 h-index	110387 64 g-index
70 all docs	70 docs citations	70 times ranked	5054 citing authors

#	Article	IF	Citations
1	THE USE OF ANIMAL MODELS TO STUDY THE EFFECTS OF AGING ON COGNITION. Annual Review of Psychology, 1997, 48, 339-370.	17.7	379
2	Selective Changes in Thin Spine Density and Morphology in Monkey Prefrontal Cortex Correlate with Aging-Related Cognitive Impairment. Journal of Neuroscience, 2010, 30, 7507-7515.	3.6	367
3	Circuit-Specific Alterations in Hippocampal Synaptophysin Immunoreactivity Predict Spatial Learning Impairment in Aged Rats. Journal of Neuroscience, 2000, 20, 6587-6593.	3.6	360
4	Cyclic Estrogen Replacement Improves Cognitive Function in Aged Ovariectomized Rhesus Monkeys. Journal of Neuroscience, 2003, 23, 5708-5714.	3.6	322
5	From The Cover: Imaging correlates of brain function in monkeys and rats isolates a hippocampal subregion differentially vulnerable to aging. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7181-7186.	7.1	264
6	Estrogen Alters Spine Number and Morphology in Prefrontal Cortex of Aged Female Rhesus Monkeys. Journal of Neuroscience, 2006, 26, 2571-2578.	3.6	229
7	Presynaptic mitochondrial morphology in monkey prefrontal cortex correlates with working memory and is improved with estrogen treatment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 486-491.	7.1	201
8	Estrogen increases the number of spinophilinâ€immunoreactive spines in the hippocampus of young and aged female rhesus monkeys. Journal of Comparative Neurology, 2003, 465, 540-550.	1.6	187
9	Sex biology contributions to vulnerability to Alzheimer's disease: A think tank convened by the Women's Alzheimer's Research Initiative. Alzheimer's and Dementia, 2016, 12, 1186-1196.	0.8	180
10	Entorhinal Cortex Lesions Disrupt the Relational Organization of Memory in Monkeys. Journal of Neuroscience, 2004, 24, 9811-9825.	3.6	178
11	Interactive effects of age and estrogen on cognition and pyramidal neurons in monkey prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11465-11470.	7.1	146
12	Recognition memory deficits in a subpopulation of aged monkeys resemble the effects of medial temporal lobe damage. Neurobiology of Aging, 1991, 12, 481-486.	3.1	138
13	Neuronal and morphological bases of cognitive decline in aged rhesus monkeys. Age, 2012, 34, 1051-1073.	3.0	114
14	Visual discrimination and reversal learning in the aged monkey (Macaca mulatta).. Behavioral Neuroscience, 1990, 104, 876-884.	1.2	112
15	Hilar interneuron vulnerability distinguishes aged rats with memory impairment. Journal of Comparative Neurology, 2013, 521, 3508-3523.	1.6	110
16	Neuron Number in the Parahippocampal Region is Preserved in Aged Rats with Spatial Learning Deficits. Cerebral Cortex, 2002, 12, 1171-1179.	2.9	105
17	Hippocampal dependent learning ability correlates with N-methyl-D-aspartate (NMDA) receptor levels in CA3 neurons of young and aged rats. Journal of Comparative Neurology, 2001, 432, 230-243.	1.6	104
18	Reproductive senescence predicts cognitive decline in aged female monkeys. NeuroReport, 1997, 8, 2047-2051.	1.2	100

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19	Constituents and functional implications of the rat default mode network. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4541-7.	7.1	90
20	Morphometric studies of the aged hippocampus: I. Volumetric analysis in behaviorally characterized rats. Journal of Comparative Neurology, 1999, 403, 459-470.	1.6	84
21	Age-Related Regional Network of Magnetic Resonance Imaging Gray Matter in the Rhesus Macaque. Journal of Neuroscience, 2008, 28, 2710-2718.	3.6	78
22	Age-Related Memory Impairment Is Associated with Disrupted Multivariate Epigenetic Coordination in the Hippocampus. PLoS ONE, 2012, 7, e33249.	2.5	70
23	Functional connectivity with the retrosplenial cortex predicts cognitive aging in rats. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12286-12291.	7.1	69
24	Volumetric Correlates of Spatiotemporal Working and Recognition Memory Impairment in Aged Rhesus Monkeys. Cerebral Cortex, 2011, 21, 1559-1573.	2.9	68
25	Hippocampal volume is preserved and fails to predict recognition memory impairment in aged rhesus monkeys (Macaca mulatta). Neurobiology of Aging, 2006, 27, 1405-1415.	3.1	67
26	Transcranial Magnetic Stimulation in Alzheimerâ€™s Disease: Are We Ready?. ENeuro, 2020, 7, ENEURO.0235-19.2019.	1.9	61
27	Synaptic correlates of memory and menopause in the hippocampal dentate gyrus in rhesus monkeys. Neurobiology of Aging, 2012, 33, 421.e17-421.e28.	3.1	60
28	Synaptic Characteristics of Dentate Gyrus Axonal Boutons and Their Relationships with Aging, Menopause, and Memory in Female Rhesus Monkeys. Journal of Neuroscience, 2011, 31, 7737-7744.	3.6	59
29	Synaptic Distributions of GluA2 and PKMÎ¶ in the Monkey Dentate Gyrus and Their Relationships with Aging and Memory. Journal of Neuroscience, 2012, 32, 7336-7344.	3.6	56
30	Individual differences in neurocognitive aging of the medial temporal lobe. Age, 2006, 28, 221-233.	3.0	49
31	Fornix Lesions Decouple the Induction of Hippocampal Arc Transcription from Behavior But Not Plasticity. Journal of Neuroscience, 2006, 26, 1507-1515.	3.6	49
32	Estrogen Restores Multisynaptic Boutons in the Dorsolateral Prefrontal Cortex while Promoting Working Memory in Aged Rhesus Monkeys. Journal of Neuroscience, 2016, 36, 901-910.	3.6	48
33	Reduction in hippocampal cholinergic innervation is unrelated to recognition memory impairment in aged rhesus monkeys. Journal of Comparative Neurology, 2004, 475, 238-246.	1.6	46
34	Epigenetic contributions to cognitive aging: disentangling mindspan and lifespan. Learning and Memory, 2014, 21, 569-574.	1.3	44
35	HDAC3-Mediated Repression of the <i>Nr4a</i> Family Contributes to Age-Related Impairments in Long-Term Memory. Journal of Neuroscience, 2019, 39, 4999-5009.	3.6	40
36	Cognitive Reserve in Model Systems for Mechanistic Discovery: The Importance of Longitudinal Studies. Frontiers in Aging Neuroscience, 2020, 12, 607685.	3.4	40

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37	A fine balance: Regulation of hippocampal Arc/Arg3.1 transcription, translation and degradation in a rat model of normal cognitive aging. Neurobiology of Learning and Memory, 2014, 115, 58-67.	1.9	38
38	Head west or left, east or right: interactions between memory systems in neurocognitive aging. Neurobiology of Aging, 2015, 36, 3067-3078.	3.1	36
39	Selective Loss of Thin Spines in Area 7a of the Primate Intraparietal Sulcus Predicts Age-Related Working Memory Impairment. Journal of Neuroscience, 2018, 38, 10467-10478.	3.6	31
40	Pancreatic polypeptide inhibits somatostatin secretion. FEBS Letters, 2014, 588, 3233-3239.	2.8	28
41	Clinically Relevant Hormone Treatments Fail to Induce Spinogenesis in Prefrontal Cortex of Aged Female Rhesus Monkeys. Journal of Neuroscience, 2012, 32, 11700-11705.	3.6	27
42	Reassessing the effects of histone deacetylase inhibitors on hippocampal memory and cognitive aging. Hippocampus, 2014, 24, 1006-1016.	1.9	27
43	Reelin in the Years: decline in the number of reelin immunoreactive neurons in layer II of the entorhinal cortex in aged monkeys with memory impairment. Neurobiology of Aging, 2020, 87, 132-137.	3.1	24
44	A quantitative neural network approach to understanding aging phenotypes. Ageing Research Reviews, 2014, 15, 44-50.	10.9	20
45	Experience Modulates the Effects of Histone Deacetylase Inhibitors on Gene and Protein Expression in the Hippocampus: Impaired Plasticity in Aging. Journal of Neuroscience, 2015, 35, 11729-11742.	3.6	20
46	What are the threats to successful brain and cognitive aging?. Neurobiology of Aging, 2019, 83, 130-134.	3.1	20
47	Diverse Synaptic Distributions of G Protein-coupled Estrogen Receptor 1 in Monkey Prefrontal Cortex with Aging and Menopause. Cerebral Cortex, 2017, 27, bhw050.	2.9	18
48	Representational organization in the aged hippocampus. , 1998, 8, 432-435.		17
49	Age-related spatial learning impairment is unrelated to spinophilin immunoreactive spine number and protein levels in rat hippocampus. Neurobiology of Aging, 2008, 29, 1256-1264.	3.1	17
50	Estrogen Alters the Synaptic Distribution of Phospho-GluN2B in the Dorsolateral Prefrontal Cortex While Promoting Working Memory in Aged Rhesus Monkeys. Neuroscience, 2018, 394, 303-315.	2.3	16
51	CREB-binding protein levels in the rat hippocampus fail to predict chronological or cognitive aging. Neurobiology of Aging, 2013, 34, 832-844.	3.1	12
52	Functional Connectivity of Hippocampal CA3 Predicts Neurocognitive Aging via CA1â€"Frontal Circuit. Cerebral Cortex, 2020, 30, 4297-4305.	2.9	12
53	Survey of the Arc Epigenetic Landscape in Normal Cognitive Aging. Molecular Neurobiology, 2020, 57, 2727-2740.	4.0	9
54	Who's the fairest of them all? Role of the human hippocampus in the relational organization of memory. Hippocampus, 2004, 14, 141-142.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Cortical network dynamics are coupled with cognitive aging in rats. Hippocampus, 2019, 29, 1165-1177.	1.9	7
56	Behavioral Impact of Long-Term Chronic Implantation of Neural Recording Devices in the Rhesus Macaque. Neuromodulation, 2019, 22, 435-440.	0.8	6
57	Differential Retinoic Acid Signaling in the Hippocampus of Aged Rats with and without Memory Impairment. ENeuro, 2021, 8, ENEURO.0120-21.2021.	1.9	6
58	Effects of repetitive Transcranial Magnetic Stimulation in aged rats depend on pre-treatment cognitive status: Toward individualized intervention for successful cognitive aging. Brain Stimulation, 2021, 14, 1219-1225.	1.6	6
59	Neuroadaptive Trajectories of Healthy Mindspan: From Genes to Neural Networks. , 2020, , 62-81.		5
60	Loss of Sensitivity to Rewards by Dopamine Neurons May Underlie Age-Related Increased Probability Discounting. Frontiers in Aging Neuroscience, 2020, 12, 49.	3.4	5
61	Synaptic distributions of pS214â€tau in rhesus monkey prefrontal cortex are associated with spine density, but not with cognitive decline. Journal of Comparative Neurology, 2019, 527, 856-873.	1.6	4
62	Recognition Memory is Associated with Distinct Patterns of Regional Gray Matter Volumes in Young and Aged Monkeys. Cerebral Cortex, 2022, 32, 933-948.	2.9	4
63	Effect of Cardiotonic Steroid Marinobufagenin on Vascular Remodeling and Cognitive Impairment in Young Dahl-S Rats. International Journal of Molecular Sciences, 2022, 23, 4563.	4.1	4
64	Morphometric studies of the aged hippocampus: I. Volumetric analysis in behaviorally characterized rats. Journal of Comparative Neurology, 1999, 403, 459-470.	1.6	2
65	Isolation and Quantification Brain Region-Specific and Cell Subtype-Specific Histone (De)Acetylation in Cognitive Neuroepigenetics. Methods in Molecular Biology, 2019, 1983, 265-277.	0.9	1
66	â€˜Arcâ€™-hitecture of normal cognitive aging. Ageing Research Reviews, 2022, 80, 101678.	10.9	1
67	Functional components of the hippocampal memory system: Implications for future learning and memory research in nonhuman primates. Behavioral and Brain Sciences, 1994, 17, 491-492.	0.7	0
68	Neuropathology of normal aging in cerebral cortex. , 2005, , 396-406.		0
69	Cover Image, Volume 29, Issue 12. Hippocampus, 2019, 29, C1.	1.9	0