Willy Mayo

List of Publications by Year
in descending order

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79 papers	6,424 citations	81839 39 h-index	71651 76 g-index
81 all docs	81 docs citations	81 times ranked	5752 citing authors

#	Article	IF	Citations
1	Prenatal Stress Induces High Anxiety and Postnatal Handling Induces Low Anxiety in Adult Offspring: Correlation with Stress-Induced Corticosterone Secretion. Journal of Neuroscience, 1997, 17, 2626-2636.	1.7	702
2	Spatial memory performances of aged rats in the water maze predict levels of hippocampal neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14385-14390.	3.3	594
3	Novelty-Seeking in Rats-Biobehavioral Characteristics and Possible Relationship with the Sensation-Seeking Trait in Man. Neuropsychobiology, 1996, 34, 136-145.	0.9	356
4	A two-trial memory task with automated recording: study in young and aged rats. Brain Research, 1992, 588, 132-139.	1.1	336
5	Long-term effects of prenatal stress and postnatal handling on age-related glucocorticoid secretion and cognitive performance: a longitudinal study in the rat. European Journal of Neuroscience, 1999, 11, 2906-2916.	1.2	325
6	Neurosteroids: Deficient cognitive performance in aged rats depends on low pregnenolone sulfate levels in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14865-14870.	3.3	284
7	Steroid hormones and neurosteroids in normal and pathological aging of the nervous system. Progress in Neurobiology, 2003, 71, 3-29.	2.8	262
8	Infusion of neurosteroids into the nucleus basalis magnocellularis affects cognitive processes in the rat. Brain Research, 1993, 607, 324-328.	1.1	205
9	The Effect of Education on Cognitive Performances and Its Implication for the Constitution of the Cognitive Reserve. Developmental Neuropsychology, 2003, 23, 317-337.	1.0	199
10	Role of pregnenolone, dehydroepiandrosterone and their sulfate esters on learning and memory in cognitive aging. Brain Research Reviews, 2001, 37, 301-312.	9.1	181
11	Profound disturbances of spontaneous and learned behaviors following lesions of the nucleus basalis magnocellularis in the rat. Brain Research, 1985, 338, 249-258.	1.1	157
12	Long-term effects of prenatal stress and handling on metabolic parameters: relationship to corticosterone secretion response. Brain Research, 1996, 712, 287-292.	1.1	138
13	Early and Later Adoptions Have Different Long-Term Effects on Male Rat Offspring. Journal of Neuroscience, 1996, 16, 7783-7790.	1.7	134
14	PSA-NCAM: an important regulator of hippocampal plasticity. International Journal of Developmental Neuroscience, 2000, 18, 213-220.	0.7	119
15	Behavioral reactivity to novelty during youth as a predictive factor of stress-induced corticosterone secretion in the elderlyâ€"a life-span study in rats. Psychoneuroendocrinology, 1996, 21, 441-453.	1.3	106
16	Biosynthesis and assay of neurosteroids in rats and mice: Functional correlates. Journal of Steroid Biochemistry and Molecular Biology, 1995, 53, 355-360.	1.2	104
17	Choline acetyltransferase activity and [3H]vesamicol binding in the temporal cortex of patients with Alzheimer's disease, Parkinson's disease, and rats with basal forebrain lesions. Neuroscience, 1990, 35, 327-333.	1.1	102
18	The neurosteroid allopregnanolone increases dopamine release and dopaminergic response to morphine in the rat nucleus accumbens. European Journal of Neuroscience, 2002, 16, 169-173.	1.2	87

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19	Reactivity to novelty during youth as a predictive factor of cognitive impairment in the elderly: a longitudinal study in rats. Brain Research, 1994, 653, 51-56.	1.1	84
20	Ciliary Neurotrophic Factor is a Regulator of Muscular Strength in Aging. Journal of Neuroscience, 1999, 19, 1257-1262.	1.7	84
21	Learning disturbances following excitotoxic lesion of cholinergic pedunculo-pontine nucleus in the rat. Brain Research, 1991, 544, 126-132.	1.1	83
22	Pregnenolone sulfate enhances neurogenesis and PSA-NCAM in young and aged hippocampus. Neurobiology of Aging, 2005, 26, 103-114.	1.5	80
23	Neurosteroids in learning and memory processes. International Review of Neurobiology, 2001, 46, 273-320.	0.9	75
24	The neurosteroid pregnenolone sulfate infused into the nucleus basalis increases both acetylcholine release in the frontal cortex or amygdala and spatial memory. Neuroscience, 1998, 87, 551-558.	1.1	74
25	Effect of aging on the basal expression of c-fos, c-jun, and egr-1 proteins in the hippocampus. Neurobiology of Aging, 1997, 18, 37-44.	1.5	73
26	Motherhood-induced memory improvement persists across lifespan in rats but is abolished by a gestational stress. European Journal of Neuroscience, 2006, 23, 3368-3374.	1.2	73
27	Individual differences in behavioral responses to novelty in rats. Possible relationship with the sensation-seeking trait in man. Personality and Individual Differences, 1993, 15, 411-418.	1.6	70
28	Pregnenolone sulfate increases hippocampal acetylcholine release and spatial recognition. Brain Research, 2000, 852, 173-179.	1.1	67
29	Anti-S-Nitrosocysteine Antibodies Are a Predictive Marker for Demyelination in Experimental Autoimmune Encephalomyelitis: Implications for Multiple Sclerosis. Journal of Neuroscience, 2002, 22, 123-132.	1.7	64
30	Individual differences in cognitive aging: implication of pregnenolone sulfate. Progress in Neurobiology, 2003, 71, 43-48.	2.8	51
31	Facilitation of Cognitive Performance in Aged Rats by Past Experience Depends on the Type of Information Processing Involved: A Combined Cross-Sectional and Longitudinal Study. Neurobiology of Learning and Memory, 1997, 67, 121-128.	1.0	48
32	Long term neurodevelopmental and behavioral effects of perinatal life events in rats. Neurotoxicity Research, 2001, 3, 65-83.	1.3	46
33	The neurosteroid pregnenolone sulfate infused into the medial septum nucleus increases hippocampal acetylcholine and spatial memory in rats. Brain Research, 2002, 951, 237-242.	1.1	46
34	Cortical cholinergic projections from the basal forebrain of the rat, with special reference to the prefrontal cortex innervation. Neuroscience Letters, 1984, 47, 149-154.	1.0	44
35	Pregnenolone Sulfate and Aging of Cognitive Functions: Behavioral, Neurochemical, and Morphological Investigations. Hormones and Behavior, 2001, 40, 215-217.	1.0	44
36	Neurosteroids and cholinergic systems: implications for sleep and cognitive processes and potential role of age-related changes. Psychopharmacology, 2006, 186, 402-413.	1.5	44

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37	Decrease in highly polysialylated neuronal cell adhesion molecules and in spatial learning during ageing are not correlated. Brain Research, 1997, 744, 285-292.	1.1	43
38	The neurosteroid pregnenolone sulphate increases dopamine release and the dopaminergic response to morphine in the rat nucleus accumbens. European Journal of Neuroscience, 1999, 11, 3757-3760.	1.2	43
39	The Neurosteroid Pregnenolone Sulfate Increases Cortical Acetylcholine Release: A Microdialysis Study in Freely Moving Rats. Journal of Neurochemistry, 2002, 71, 2018-2022.	2.1	41
40	Cognitive enhancing properties of Î²-CCM infused into the nucleus basalis magnocellularis of the rat. Brain Research, 1992, 589, 109-114.	1.1	39
41	The effect of restraint stress on paradoxical sleep is influenced by the circadian cycle. Brain Research, 2002, 937, 45-50.	1.1	39
42	Individual vulnerability to substance abuse and affective disorders: Role of early environmental influences. Neurotoxicity Research, 2002, 4, 281-296.	1.3	38
43	Locomotor hyperactivity in the rat after infusion of muscimol and [d-Ala2]Met-enkephalin into the nucleus basalis magnocellularis. Possible interaction with cortical cholinergic projections. Brain Research, 1988, 452, 203-211.	1.1	37
44	Memory disturbances following ibotenic acid injections in the nucleus basalis magnocellularis of the rat. Brain Research, 1988, 455, 213-222.	1.1	35
45	Reaction of sleepâ€“wakefulness cycle to stress is related to differences in hypothalamoâ€“pituitaryâ€“adrenal axis reactivity in rat. Brain Research, 1998, 804, 114-124.	1.1	35
46	Deleterious effects of an environmental noise on sleep and contribution of its physical components in a rat model. Brain Research, 2004, 1009, 88-97.	1.1	35
47	Chronic exposure to an environmental noise permanently disturbs sleep in rats: Inter-individual vulnerability. Brain Research, 2005, 1059, 72-82.	1.1	33
48	Chronic exposure of rats to noise: Relationship between long-term memory deficits and slow wave sleep disturbances. Behavioural Brain Research, 2006, 171, 303-312.	1.2	33
49	Mood Influences the Concordance of Subjective and Objective Measures of Sleep Duration in Older Adults. Frontiers in Aging Neuroscience, 2016, 08, 181.	1.7	33
50	Low Brain Allopregnanolone Levels Mediate Flattened Circadian Activity Associated with Memory Impairments in Aged Rats. Biological Psychiatry, 2010, 68, 956-963.	0.7	30
51	¹²³I-Iodobenzovesamicol SPECT Imaging of Cholinergic Systems in Dementia with Lewy Bodies. Journal of Nuclear Medicine, 2017, 58, 123-128.	2.8	29
52	Infusion of neurosteroids into the rat nucleus basalis affects paradoxical sleep in accordance with their memory modulating properties. Neuroscience, 1999, 92, 583-588.	1.1	28
53	Inter-individual differences in the effects of acute stress on the sleep-wakefulness cycle in the rat. Neuroscience Letters, 1997, 225, 193-196.	1.0	26
54	Activity/rest cycle and disturbances of structural backbone of cerebral networks in aging. NeuroImage, 2017, 146, 814-820.	2.1	24

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55	Progressive Supranuclear Palsy: In Vivo SPECT Imaging of Presynaptic Vesicular Acetylcholine Transporter with [¹²³I]-Iodobenzovesamicol. Radiology, 2012, 265, 537-543.	3.6	23
56	Circadian Sleep/Wake Rhythm Abnormalities as a Risk Factor of a Poststroke Apathy. International Journal of Stroke, 2015, 10, 710-715.	2.9	22
57	The promnesic neurosteroid pregnenolone sulfate increases paradoxical sleep in rats. Brain Research, 1999, 818, 492-498.	1.1	20
58	Neuroactive steroids: new biomarkers of cognitive aging. Journal of Steroid Biochemistry and Molecular Biology, 2003, 85, 329-335.	1.2	20
59	New insights into the role of neuroactive steroids in cognitive aging. Experimental Gerontology, 2004, 39, 1695-1704.	1.2	18
60	Sleep-wake states and cortical synchronization control by pregnenolone sulfate into the pedunculopontine nucleus. Journal of Neuroscience Research, 2004, 76, 742-747.	1.3	17
61	[123I]-IBVM SPECT imaging of cholinergic systems in multiple system atrophy: A specific alteration of the ponto-thalamic cholinergic pathways (Ch5â€“Ch6). NeuroImage: Clinical, 2013, 3, 212-217.	1.4	15
62	The nucleus basalis is involved in brain modulation of the immune system in rats. Brain Research, 1990, 516, 345-348.	1.1	14
63	3-D motion capture for long-term tracking of spontaneous locomotor behaviors and circadian sleep/wake rhythms in mouse. Journal of Neuroscience Methods, 2018, 295, 51-57.	1.3	13
64	An experimental model of acute encephalopathy after total body irradiation in the rat: effect of liposome-entrapped Cu/Zn superoxide dismutase. International Journal of Radiation Oncology Biology Physics, 1998, 42, 179-184.	0.4	11
65	Alteration of Attentional Blink in High Functioning Autism: A Pilot Study. Journal of Autism and Developmental Disorders, 2009, 39, 1522-1528.	1.7	11
66	Attention-Deficit Hyperactivity and Obsessive-Compulsive Symptoms in Adult Patients With Primary Restless Legs Syndrome: Different Phenotypes of the Same Disease?. Behavioral Sleep Medicine, 2019, 17, 246-253.	1.1	11
67	Neurosteroids. , 1999, , 317-335.		11
68	Smad-dependent alterations of PPT cholinergic neurons as a pathophysiological mechanism of age-related sleep-dependent memory impairments. Neurobiology of Aging, 2006, 27, 1848-1858.	1.5	10
69	Affective Prosody and Depression After Stroke. Stroke, 2016, 47, 2397-2400.	1.0	10
70	Impulsive aggressive obsessions following cerebellar strokes: a case study. Journal of Neurology, 2015, 262, 1775-1776.	1.8	9
71	Iodobenzamide for in vivo exploration of central dopamine receptros: Evaluation in animal models of supersensitivity. Life Sciences, 1990, 47, 729-734.	2.0	6
72	Cerebellum involvement in post-stroke mood: A combined ecological and MRI study. Psychiatry Research - Neuroimaging, 2013, 212, 158-160.	0.9	6

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73	Improvement of in Vivo Quantification of [¹²³I]-Iodobenzovesamicol in Single-Photon Emission Computed Tomography/Computed Tomography Using Anatomic Image to Brain Atlas Nonrigid Registration. Molecular Imaging, 2013, 12, 7290.2012.00043.	0.7	4
74	Paradoxical effect of severe dietary restriction on Long-Evans rat life span. International Journal for Vitamin and Nutrition Research, 2010, 80, 386-393.	0.6	4
75	Improvement of in vivo quantification of [123I]-Iodobenzovesamicol in single-photon emission computed tomography/computed tomography using anatomic image to brain atlas nonrigid registration. Molecular Imaging, 2013, 12, 288-99.	0.7	4
76	Simplified Quantification Method for In Vivo SPECT Imaging of the Vesicular Acetylcholine Transporter with 123I-Iodobenzovesamicol. Journal of Nuclear Medicine, 2015, 56, 862-868.	2.8	2
77	Hormones corticostÃ©roÃ¯diennes et cerveau. SociÃ©tÃ© De Biologie Journal, 1999, 193, 275-283.	0.3	0
78	Assessment of dream-related aspects and beliefs in a large cohort of French students using a validated French version of the Mannheim Dream questionnaire. PLoS ONE, 2021, 16, e0247506.	1.1	0
79	Attention-deficit/hyperactivity and obsessive-compulsive symptoms in adult patients with primary restless legs syndrome. Applied Neuropsychology Adult, 2022, , 1-8.	0.7	0