Raymond Cespuglio

List of Publications by Year
in descending order

129	6,175	53794	76900
papers	citations	45 h-index	74 g-index

137	137	137	3712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In vivo electrochemical detection of catechols in the neostriatum of anaesthetized rats: dopamine or DOPAC?. Nature, 1980, 286, 902-904.	27.8	401
2	Normal pulse polarography with carbon fiber electrodes for in vitro and in vivo determination of catecholamines. Analytical Chemistry, 1979, 51, 1483-1486.	6.5	319
3	Voltammetry in the striatum of chronic freely moving rats: Detection of catechols and ascorbic acid. Brain Research, 1981, 223, 69-80.	2.2	282
4	Single unit recordings in the nuclei raphe dorsalis and magnus during the sleep-waking cycle of semi-chronic prepared cats. Neuroscience Letters, 1981, 24, 133-138.	2.1	210
5	Immobilisation stress induces a paradoxical sleep rebound in rat. Neuroscience Letters, 1991, 126, 113-118.	2.1	197
6	Alterations in the sleep-waking cycle induced by cooling of the locus coeruleus area. Electroencephalography and Clinical Neurophysiology, 1982, 54, 570-578.	0.3	186
7	l -Arginine Availability Modulates Local Nitric Oxide Production and Parasite Killing in Experimental Trypanosomiasis. Infection and Immunity, 2000, 68, 4653-4657.	2.2	145
8	Endogenous peptides and sleep in the rat: III the hypnogenic properties of vasoactive intestinal polypeptide. Neuropeptides, 1982, 2, 265-277.	2.2	144
9	Nitric oxide and sleep in the rat: a puzzling relationship. Neuroscience, 1999, 92, 627-639.	2.3	144
10	Is the nucleus raphe dorsalis a target for the peptides possessing hypnogenic properties?. Brain Research, 1994, 637, 211-221.	2.2	119
11	Differential pulse voltammetry in brain tissue. II. Detection of 5-hydroxyindolacetic acid in the rat striatum. Brain Research, 1981, 223, 299-311.	2.2	100
12	Recombinant Human Erythropoietin Prevents the Death of Mice during Cerebral Malaria. Journal of Infectious Diseases, 2006, 193, 987-995.	4.0	94
13	Influence of stress duration on the sleep rebound induced by immobilization in the rat: a possible role for corticosterone. Neuroscience, 1999, 92, 921-933.	2.3	93
14	Characterization of a Yeast<scp>d</scp>-Amino Acid Oxidase Microbiosensor for<scp>d</scp>-Serine Detection in the Central Nervous System. Analytical Chemistry, 2008, 80, 1589-1597.	6.5	93
15	In Vivo Brain Glucose Measurements:Â Differential Normal Pulse Voltammetry with Enzyme-Modified Carbon Fiber Microelectrodes. Analytical Chemistry, 1996, 68, 4358-4364.	6.5	89
16	Voltammetric measurements of 5-hydroxyindole compounds in the suprachiasmatic nuclei: Circadian fluctuations. Brain Research, 1983, 279, 111-119.	2.2	83
17	Differential pulse voltammetry in brain tissue. I. Detection of 5-hydroxyindoles in the rat striatum. Brain Research, 1981, 223, 287-298.	2.2	82
18	Voltammetric detection of nitric oxide (NO) in the rat brain: its variations throughout the sleep-wake cycle. Neuroscience Letters, 1997, 226, 131-135.	2.1	79

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19	Nitric oxide and sleep. Sleep Medicine Reviews, 2005, 9, 101-113.	8.5	77
20	Sleep structure: a new diagnostic tool for stage determination in sleeping sickness. Acta Tropica, 2005, 93, 107-117.	2.0	77
21	Voltammetric detection of the release of 5-hydroxyindole compounds throughout the sleep-waking cycle of the rat. Experimental Brain Research, 1990, 80, 121-8.	1.5	76
22	Proopiomelanocortin (POMC)-derived peptides and sleep in the rat Part 1 â€" Hypnogenic properties of ACTH derivatives. Neuropeptides, 1990, 15, 61-74.	2.2	73
23	In Vivo Voltammetric Detection of Rat Brain Lactate with Carbon Fiber Microelectrodes Coated with Lactate Oxidase. Analytical Chemistry, 1998, 70, 2618-2622.	6.5	68
24	The duality of sleeping sickness: focusing on sleep. Sleep Medicine Reviews, 2001, 5, 139-153.	8.5	67
25	Evidence for a sleep-promoting influence of stress. Advances in Neuroimmunology, 1995, 5, 145-154.	1.8	66
26	Behavioural changes after an acute stress: stressor and test types influences. Behavioural Brain Research, 2003, 139, 167-175.	2.2	62
27	In vivo electrochemical detection of catechols in several dopaminergic brain regions of anaesthetized rats. European Journal of Pharmacology, 1981, 73, 61-68.	3.5	59
28	The neuronal insulin sensitizer dicholine succinate reduces stress-induced depressive traits and memory deficit: possible role of insulin-like growth factor 2. BMC Neuroscience, 2012, 13, 110.	1.9	59
29	Comparative distribution of nitric oxide synthase- and serotonin-containing neurons in the raphe nuclei of four mammalian species. Histochemistry and Cell Biology, 1998, 110, 517-525.	1.7	58
30	Brain extracellular glucose assessed by voltammetry throughout the rat sleep-wake cycle. European Journal of Neuroscience, 2001, 13, 1429-1434.	2.6	58
31	Carbon fibre-based microbiosensors for in vivo measurements of acetylcholine and choline. Biosensors and Bioelectronics, 2005, 21, 87-94.	10.1	58
32	Deuterium content of water increases depression susceptibility: The potential role of a serotonin-related mechanism. Behavioural Brain Research, 2015, 277, 237-244.	2.2	56
33	Anatomical distribution of serotonin-containing neurons and axons in the central nervous system of the cat. Journal of Comparative Neurology, 2001, 433, 157-182.	1.6	55
34	Detection of the release of 5-hydroxyindole compounds in the hypothalamus and the n. raphe dorsalis throughout the sleep-waking cycle and during stressful situations in the rat: a polygraphic and voltammetric approach. Experimental Brain Research, 1991, 85, 153-62.	1.5	53
35	Influence of a 1 h immobilization stress on sleep states and corticotropin-like intermediate lobe peptide (CLIP or ACTH18â€“39, Ph-ACTH18â€“39) brain contents in the rat. Brain Research, 1997, 751, 54-63.	2.2	50
36	Lactate in the brain of the freely moving rat: voltammetric monitoring of the changes related to the sleep-wake states. European Journal of Neuroscience, 2002, 16, 461-466.	2.6	50

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37	Nitric oxide in the regulation of the sleep-wake states. Sleep Medicine Reviews, 2012, 16, 265-279.	8.5	49
38	Axonal and somatoâ€dendritic modalities of serotonin release: their involvement in sleep preparation, triggering and maintenance. Journal of Sleep Research, 1992, 1, 150-156.	3.2	48
39	Effects of an acute immobilization stress upon proopiomelanocortin (POMC) mRNA levels in the mediobasal hypothalamus: a quantitative in situ hybridization study. Molecular Brain Research, 1994, 26, 163-168.	2.3	48
40	Human Macrophage Tumor Necrosis Factor (TNF)â€"Î± Production Induced byTrypanosoma brucei gambienseand the Role of TNFâ€Î± in Parasite Control. Journal of Infectious Diseases, 2001, 183, 988-991.	4.0	48
41	High sensitivity measurement of brain catechols and indoles in vivo using electrochemically treated carbon-fiber electrodes. Journal of Neuroscience Methods, 1993, 48, 241-250.	2.5	47
42	Decreased heat tolerance is associated with hypothalamoâ€"pituitaryâ€"adrenocortical axis impairment. Neuroscience, 2007, 147, 522-531.	2.3	47
43	Effects induced by the electrical stimulation of the nucleus raphe dorsalis upon hypothalamic release of 5-hydroxyindole compounds and sleep parameters in the rat. Brain Research, 1991, 565, 48-56.	2.2	46
44	Inducible Nitric Oxide Synthase and Nitrotyrosine in the Central Nervous System of Mice Chronically Infected with Trypanosoma brucei brucei. Experimental Parasitology, 2000, 95, 19-27.	1.2	42
45	Sleep wake profile and EEG spectral power in young or old senescence accelerated mice. Neurobiology of Aging, 2005, 26, 265-273.	3.1	42
46	Influence of the novel antidepressant and melatonin agonist/serotonin2C receptor antagonist, agomelatine, on the rat sleepâ€"wake cycle architecture. Psychopharmacology, 2009, 205, 93-106.	3.1	39
47	Differential pulse voltammetry in brain tissue: III mapping of the rat serotoninergic raphe nuclei by electrochemical detection of 5-HIAA. Brain Research, 1983, 270, 45-54.	2.2	37
48	Brain glucose. NeuroReport, 1997, 8, 1109-1112.	1.2	36
49	Sleep and stress in man: an approach through exercise and exposure to extreme environments. Canadian Journal of Physiology and Pharmacology, 1998, 76, 553-561.	1.4	35
50	Changes in the sleepâ€"wake cycle architecture and cortical nitric oxide release during ageing in the rat. Neuroscience, 2003, 116, 863-870.	2.3	35
51	Twenty-Fourâ€"Hour Disruption of the Sleep-Wake Cycle and Sleep-Onset REM-Like Episodes in a Rat Model of African Trypanosomiasis. Sleep, 2004, 27, 42-46.	1.1	35
52	Influence of proopiomelanocortin-derived peptides on the sleep-waking cycle of the rat. Neuroscience Letters, 1985, 62, 365-370.	2.1	33
53	Regional age-related changes in neuronal nitric oxide synthase (nNOS), messenger RNA levels and activity in SAMP8 brain. BMC Neuroscience, 2006, 7, 81.	1.9	33
54	Evidence for the presence of eye movement potentials during paradoxical sleep in cats. Electroencephalography and Clinical Neurophysiology, 1976, 41, 37-48.	0.3	32

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55	Monitoring nitric oxide (NO) in rat locus coeruleus. NeuroReport, 1997, 8, 1321-1325.	1.2	32
56	Sleep and Epilepsy: A Key Role for Nitric Oxide?. Epilepsia, 2000, 41, 794-801.	5.1	31
57	Cooling of the nucleus raphe dorsalis induces sleep in the cat. Neuroscience Letters, 1976, 3, 221-227.	2.1	30
58	Serotonin: its place today in sleep preparation, triggering or maintenance. Sleep Medicine, 2018, 49, 31-39.	1.6	30
59	Neurokinin NK1- and NK3-immunoreactive neurons in serotonergic cell groups in the rat brain. Neuroscience Letters, 2002, 323, 146-150.	2.1	29
60	Rhythmical activity of the rat's tongue in sleep and wakefulness. Electroencephalography and Clinical Neurophysiology, 1978, 44, 8-13.	0.3	28
61	Clinical Follow-Up in the Rat Experimental Model of African-Trypanosomiasis. Experimental Biology and Medicine, 2003, 228, 1355-1362.	2.4	28
62	d-Serine diffusion through the bloodâ€“brain barrier: Effect on d-serine compartmentalization and storage. Neurochemistry International, 2012, 60, 837-845.	3.8	28
63	S32212, a Novel Serotonin Type 2C Receptor Inverse Agonist/Î±₂-Adrenoceptor Antagonist and Potential Antidepressant: II. A Behavioral, Neurochemical, and Electrophysiological Characterization. Journal of Pharmacology and Experimental Therapeutics, 2012, 340, 765-780.	2.5	27
64	Autism-Like Behaviours and Memory Deficits Result from a Western Diet in Mice. Neural Plasticity, 2017, 2017, 1-14.	2.2	27
65	Sleepâ€“wake architecture in mouse models for Down syndrome. Neurobiology of Disease, 2004, 16, 291-299.	4.4	25
66	Hypocretin and Human African Trypanosomiasis. Sleep, 2008, 31, 348-354.	1.1	25
67	Microbiosensor based on glucose oxidase and hexokinase co-immobilised on platinum microelectrode for selective ATP detection. Talanta, 2009, 78, 1023-1028.	5.5	25
68	Endogenous peptides and sleep in the rat: II peptides without significant effect on the sleep-waking cycle. Neuropeptides, 1982, 2, 255-264.	2.2	22
69	Determination of NADH in the rat brain during sleep-wake states with an optic fibre sensor and time-resolved fluorescence procedures. Neuroscience, 1997, 79, 683-693.	2.3	21
70	Inhibition of NADH oxidation by chloramphenicol in the freely moving rat measured by picosecond time-resolved emission spectroscopy. Journal of Neurochemistry, 2003, 84, 633-642.	3.9	21
71	Sleep and stress in man: an approach through exercise and exposure to extreme environments. Canadian Journal of Physiology and Pharmacology, 1998, 76, 553-561.	1.4	21
72	Endogenous peptides and sleep in the rat: I peptides decreasing paradoxical sleep. Neuropeptides, 1982, 2, 243-254.	2.2	20

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73	Changes occurring in cortical NO release and brain NO-synthases during a paradoxical sleep deprivation and subsequent recovery in the rat. Journal of Neurochemistry, 2004, 90, 848-856.	3.9	19
74	Effect of glucocorticoid depletion on heat-induced Hsp70, IL-1Î² and TNF-Î± gene expression. Brain Research, 2007, 1164, 63-71.	2.2	19
75	Cerebral and Peripheral Changes Occurring in Nitric Oxide (NO) Synthesis in a Rat Model of Sleeping Sickness: Identification of Brain iNOS Expressing Cells. PLoS ONE, 2010, 5, e9211.	2.5	19
76	Cerebral Changes Occurring in Arginase and Dimethylarginine Dimethylaminohydrolase (DDAH) in a Rat Model of Sleeping Sickness. PLoS ONE, 2011, 6, e16891.	2.5	19
77	Effects of tianeptine, sertraline and clomipramine on brain serotonin metabolism: a voltammetric approach in the rat. Brain Research, 1996, 736, 82-90.	2.2	18
78	Localization of nitric oxide-synthesizing neurons sending projections to the dorsal raphe nucleus of the rat. Neuroscience Letters, 1998, 257, 147-150.	2.1	18
79	Expression patterns of c-Fos early gene and phosphorylated ERK in the rat brain following 1-h immobilization stress: concomitant changes induced in association with stress-related sleep rebound. Brain Structure and Function, 2015, 220, 1793-1804.	2.3	18
80	Absence of light-dark entrainment on the sleep-waking cycle in mice with intact visual perception. Brain Research, 1980, 202, 41-49.	2.2	17
81	In vivo monitoring of evoked noradrenaline release in the rat anteroventral thalamic nucleus by continuous amperometry. Journal of Neurochemistry, 2002, 82, 529-537.	3.9	17
82	Distribution of the pro-opiomelanocortin-immunoreactive axons in relation to the serotoninergic neurons in the dorsal raphe nucleus of the rat. Neuroscience Letters, 1991, 130, 17-21.	2.1	16
83	In Vivo Electrochemical Monitoring of Serotonin in Spinal Dorsal Horn with Nafion-Coated Multi-Carbon Fiber Electrodes. Journal of Neurochemistry, 2002, 65, 1257-1263.	3.9	16
84	Nitric oxide and liver microcirculation during autoregulation and haemorrhagic shock in rabbit model. British Journal of Anaesthesia, 2006, 97, 137-146.	3.4	16
85	Influence of aging on the sleep rebound induced by immobilization stress in the rat. Brain Research, 2010, 1335, 14-23.	2.2	16
86	Ultrasound stress compromises the correlates of emotional-like states and brain AMPAR expression in mice: effects of antioxidant and anti-inflammatory herbal treatment. Stress, 2020, 23, 481-495.	1.8	16
87	Immunocytochemical study of the CLIP/ACTH-immunoreactive nerve fibres in the dorsal raphe nucleus of the rat. Neuroscience Letters, 1994, 174, 137-140.	2.1	15
88	5-Hydroxyindoles compounds and nitric oxide voltammetric detection in the rat brain: changes occurring throughout the sleep-wake cycle. Journal of Neural Transmission, 1998, 105, 205-215.	2.8	15
89	Influence of a 1-h immobilization stress on sleep and CLIP (ACTH18â€“39) brain contents in adrenalectomized rats. Brain Research, 2000, 853, 323-329.	2.2	15
90	Metyrapone decreases locomotion acutely. Neuroscience Letters, 2009, 457, 41-44.	2.1	15

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91	Polysomnography as a diagnosis and post-treatment follow-up tool in human African trypanosomiasis: A case study in an infant. Journal of the Neurological Sciences, 2011, 305, 112-115.	0.6	15
92	Dicholine succinate, the neuronal insulin sensitizer, normalizes behavior, REM sleep, hippocampal pGSK3 beta and mRNAs of NMDA receptor subunits in mouse models of depression. Frontiers in Behavioral Neuroscience, 2015, 9, 37.	2.0	15
93	Effect of noradrenergic denervation of the amygdala upon recovery after sleep deprivation in the rat. Neuroscience Letters, 2000, 287, 41-44.	2.1	14
94	Acute administration of the novel serotonin and noradrenaline reuptake inhibitor, S33005, markedly modifies sleepâ€“wake cycle architecture in the rat. Psychopharmacology, 2005, 181, 639-652.	3.1	14
95	Clinical assessment of the entry into neurological state in rat experimental African trypanosomiasis. Acta Tropica, 2005, 95, 33-39.	2.0	14
96	Hippocampal Over-Expression of Cyclooxygenase-2 (COX-2) Is Associated with Susceptibility to Stress-Induced Anhedonia in Mice. International Journal of Molecular Sciences, 2022, 23, 2061.	4.1	14
97	Metabolic, Molecular, and Behavioral Effects of Western Diet in Serotonin Transporter-Deficient Mice: Rescue by Heterozygosity?. Frontiers in Neuroscience, 2020, 14, 24.	2.8	13
98	Stress-induced hippocampus Npas4 mRNA expression relates to specific psychophysiological patterns of stress response. Brain Research, 2018, 1679, 75-83.	2.2	12
99	Hepatic Ischemia Is Associated with an Increase in Liver Parenchyma Nitric Oxide That Is in Part Enzyme-Independent. Anesthesiology, 2003, 98, 373-378.	2.5	11
100	Fiber-Optic Time-Resolved Fluorescence Sensor for in Vitro Serotonin Determination. Applied Spectroscopy, 1993, 47, 590-597.	2.2	10
101	Voltametric assessment of brain nitric oxide during heatstroke in rats. Neuroscience Letters, 1997, 231, 67-70.	2.1	10
102	Effects of a thermal injury on brain and blood nitric oxide (NO) content in the rat. Burns, 2003, 29, 557-562.	1.9	10
103	In Vivo Measurement of Glucose Utilization in Rats using a Î²-Microprobe: Direct Comparison with Autoradiography. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 1015-1024.	4.3	10
104	REM sleep control during aging in SAM mice: a role for inducible nitric oxide synthase. Neurobiology of Aging, 2005, 26, 1375-1384.	3.1	10
105	Cerebrospinal fluid B lymphocyte identification for diagnosis and follow-up in human African trypanosomiasis in the field. Tropical Medicine and International Health, 2009, 15, 454-61.	2.3	10
106	Metyrapone blunts stress-induced hyperthermia and increased locomotor activity independently of glucocorticoids and neurosteroids. Psychoneuroendocrinology, 2010, 35, 1299-1310.	2.7	10
107	Altered behaviour, dopamine and norepinephrine regulation in stressed mice heterozygous in TPH2 gene. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 108, 110155.	4.8	10
108	SARS-CoV-2 infection and sleep disturbances: nitric oxide involvement and therapeutic opportunity. Sleep, 2021, 44, .	1.1	10

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109	Factors influencing the properties of voltammetric carbon fibre electrodes: the importance of the pH of the medium used for the electrical treatment and of the resin coating of the fibres. Journal of Proteomics, 1985, 11, 265-275.	2.4	9
110	Chloramphenicol decreases brain glucose utilization and modifies the sleep-wake cycle architecture in rats. Journal of Neurochemistry, 2005, 93, 1623-1632.	3.9	9
111	Metyrapone effects on systemic and cerebral energy metabolism. European Journal of Pharmacology, 2012, 682, 92-98.	3.5	8
112	Cerebral inducible nitric oxide synthase protein expression in microglia, astrocytes and neurons in Trypanosoma brucei brucei-infected rats. PLoS ONE, 2019, 14, e0215070.	2.5	8
113	Circadian rest-activity rhythms in the anophthalmic, monocular and binocular ZRDCT/An mice. Retinal and serotoninergic (raphe) influences. Brain Research, 1990, 526, 207-216.	2.2	7
114	Ultrastructural relationships of the pro-opiomelanocortin axons with the serotoninergic neurons in the dorsal raphe nucleus of the rat. Neuroscience Letters, 1997, 222, 155-158.	2.1	7
115	Agomelatine restores a physiological response to stress in the aged rat. Neuroscience Letters, 2014, 566, 257-262.	2.1	7
116	Management of African trypanosomiasis of the CNS: polysomnography as a noninvasive staging tool. Future Neurology, 2012, 7, 453-472.	0.5	6
117	Serum Arginase, a Biomarker of Treatment Efficacy in Human African Trypanosomiasis. Journal of Clinical Microbiology, 2013, 51, 2379-2381.	3.9	5
118	ENERGY PROCESSES UNDERLYING THE SLEEPâ€“WAKE CYCLE. , 2005, , 3-21.		4
119	Effects of chloramphenicol on brain energy metabolism using ³¹P spectroscopy: influences on sleepâ€wake states in rat. Journal of Neurochemistry, 2008, 106, 1552-1562.	3.9	4
120	The relationship between locomotion and heat tolerance in heat exposed rats. Behavioural Brain Research, 2010, 211, 41-47.	2.2	4
121	Single administration of metyrapone modifies sleepâ€“wake patterns in the rat. European Journal of Pharmacology, 2011, 652, 60-64.	3.5	4
122	Sleep patterns in villagers and urban African volunteers in a humid tropical climate: Influence of accessibility to electric light?. Journal of the Neurological Sciences, 2017, 376, 44-48.	0.6	4
123	Phasic events of paradoxical sleep in the anophthalmic ZRDCT/An mice. Physiology and Behavior, 1981, 26, 961-965.	2.1	3
124	Glucose and Lactate Monitoring Across the Rat Sleepâ€“Wake Cycle. Neuromethods, 2013, , 241-256.	0.3	3
125	Behavioral Features of Mice Fed with a Cholesterol-Enriched Diet: Deficient Novelty Exploration and Unaltered Aggressive Behavior. Translational Neuroscience and Clinics, 2016, 2, 87-95.	0.1	3
126	Geoclimatology and sleep in Africa: A mini-review. Revue Neurologique, 2019, 175, 581-592.	1.5	2

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127	Relationships between pontogeniculooccipital waves and ocular movements. Behavioral and Brain Sciences, 1986, 9, 401-402.	0.7	1
128	African Sleeping Sickness. , 2015, , 159-165.		1
129	Sleeping Sickness. , 2005, , 163-173.		0