Edgar E GarcÃ-a-Rill

List of Publications by Year
in descending order

145 papers	3,457 citations	136950 32 h-index	189892 50 g-index
156 all docs	156 docs citations	156 times ranked	2954 citing authors

#	Article	IF	Citations
1	Deep brain stimulation for understanding the sleep-wake phenomena. , 2022, , 101-110.		0
2	HDAC superfamily promoters acetylation is differentially regulated by modafinil and methamphetamine in the mouse medial prefrontal cortex. Addiction Biology, 2020, 25, e12737.	2.6	15
3	The critical role of persistent sodium current in hippocampal gamma oscillations. Neuropharmacology, 2020, 162, 107787.	4.1	3
4	Gamma oscillations in the pedunculopontine nucleus are regulated by F-actin: neuroepigenetic implications. American Journal of Physiology - Cell Physiology, 2020, 318, C282-C288.	4.6	3
5	Differential effects of HDAC inhibitors on PPN oscillatory activity in vivo. Neuropharmacology, 2020, 165, 107922.	4.1	5
6	The effects of single-dose injections of modafinil and methamphetamine on epigenetic and functional markers in the mouse medial prefrontal cortex: potential role of dopamine receptors. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 88, 222-234.	4.8	26
7	Bipolar disorder, depression, and arousal. , 2019, , 55-65.		0
8	Physiology of arousal. , 2019, , 25-42.		0
9	Proteomic measures of gamma oscillations. Heliyon, 2019, 5, e02265.	3.2	6
10	Concerns regarding Baksa B, Kovacs A, Bayasgalan T, Szentesi P, Koseghy A, Szucs P, Balazs P. Characterization of functional subgroups among genetically identified cholinergic neurons in the pedunculopontine nucleus. Cell Molec. Life Sci. 2019-04-02. Cellular and Molecular Life Sciences, 2019, 76, 4581-4582.	5.4	1
11	Physiological Mechanisms for the Control of Waking. , 2019, , 27-43.		0
12	Local and Relayed Effects of Deep Brain Stimulation of the Pedunculopontine Nucleus. Brain Sciences, 2019, 9, 64.	2.3	12
13	Neuroepigenetics of arousal: Gamma oscillations in the pedunculopontine nucleus. Journal of Neuroscience Research, 2019, 97, 1515-1520.	2.9	5
14	Schizophrenia and arousal. , 2019, , 43-54.		1
15	Posttraumatic stress and anxiety, the role of arousal. , 2019, , 67-81.		1
16	Autism and arousal. , 2019, , 83-114.		3
17	Arousal and the Alzheimer disease. , 2019, , 131-141.		1
18	Arousal in REM sleep behavior disorder and narcolepsy. , 2019, , 161-177.		0

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19	Neuroepigenetics of arousal and the formulation of the self. , 2019, , 221-233.		1
20	Arousal and movement disorders. , 2019, , 179-193.		3
21	My years at UCLA. Journal of Neuroscience Research, 2019, 97, 1749-1749.	2.9	0
22	Bottomâ€up gamma and bipolar disorder, clinical and neuroepigenetic implications. Bipolar Disorders, 2019, 21, 108-116.	1.9	7
23	Bottom-up gamma maintenance in various disorders. Neurobiology of Disease, 2019, 128, 31-39.	4.4	15
24	Physiological Substrates of RBD Subtypes. , 2019, , 173-186.		0
25	Cell Type-specific Intrinsic Perithreshold Oscillations in Hippocampal GABAergic Interneurons. Neuroscience, 2018, 376, 80-93.	2.3	15
26	Leptin alters somatosensory thalamic networks by decreasing gaba release from reticular thalamic nucleus and action potential frequency at ventrobasal neurons. Brain Structure and Function, 2018, 223, 2499-2514.	2.3	4
27	Increased foot strike variability in Parkinson's disease patients with freezing of gait. Parkinsonism and Related Disorders, 2018, 53, 58-63.	2.2	33
28	Repeated methamphetamine and modafinil induce differential cognitive effects and specific histone acetylation and DNA methylation profiles in the mouse medial prefrontal cortex. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 82, 1-11.	4.8	39
29	Role of Calcium Channels in Bipolar Disorder. Current Psychopharmacology, 2018, 6, 122-135.	0.3	7
30	The Critical Role of Intrinsic Membrane Oscillations. NeuroSignals, 2018, 26, 66-76.	0.9	13
31	Impaired stepâ€length setting prior to turning in Parkinson's disease patients with freezing of gait. Movement Disorders, 2018, 33, 1823-1825.	3.9	20
32	Class II histone deacetylases require P/Q-type Ca2+ channels and CaMKII to maintain gamma oscillations in the pedunculopontine nucleus. Scientific Reports, 2018, 8, 13156.	3.3	14
33	Group I metabotropic glutamate receptors generate two types of intrinsic membrane oscillations in hippocampal oriens/alveus interneurons. Neuropharmacology, 2018, 139, 150-162.	4.1	11
34	Interaction between neuronal calcium sensor protein 1 and lithium in pedunculopontine neurons. Physiological Reports, 2017, 5, e13246.	1.7	5
35	Arousal and drug abuse. Behavioural Brain Research, 2017, 333, 276-281.	2.2	12
36	Modulation of GABA release from the thalamic reticular nucleus by cocaine and caffeine: role of serotonin receptors. Journal of Neurochemistry, 2016, 136, 526-535.	3.9	29

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37	Lithium decreases the effects of neuronal calcium sensor protein 1 in pedunculopontine neurons. Physiological Reports, 2016, 4, e12740.	1.7	9
38	Intracellular mechanisms modulating gamma band activity in the pedunculopontine nucleus (PPN). Physiological Reports, 2016, 4, e12787.	1.7	21
39	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Techniques, Side Effects, and Postoperative Imaging. Stereotactic and Functional Neurosurgery, 2016, 94, 307-319.	1.5	54
40	Recording Gamma Band Oscillations in Pedunculopontine Nucleus Neurons. Journal of Visualized Experiments, 2016, , .	0.3	3
41	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Anatomy and Terminology. Stereotactic and Functional Neurosurgery, 2016, 94, 298-306.	1.5	452
42	Progress in deep brain stimulation of the pedunculopontine nucleus and other structures: implications for motor and non-motor disorders. Journal of Neural Transmission, 2016, 123, 653-654.	2.8	7
43	Combined Effects of Simultaneous Exposure to Caffeine and Cocaine in the Mouse Striatum. Neurotoxicity Research, 2016, 29, 525-538.	2.7	17
44	Implications of gamma band activity in the pedunculopontine nucleus. Journal of Neural Transmission, 2016, 123, 655-665.	2.8	37
45	Methamphetamine blunts Ca²⁺currents and excitatory synaptic transmission through D1/5 receptor-mediated mechanisms in the mouse medial prefrontal cortex. Addiction Biology, 2016, 21, 589-602.	2.6	28
46	Pedunculopontine arousal system physiology â€“ Implications for insomnia. Sleep Science, 2015, 8, 92-99.	1.0	19
47	Pedunculopontine arousal system physiologyâ€”Effects of psychostimulant abuse. Sleep Science, 2015, 8, 162-168.	1.0	7
48	High-threshold Ca²⁺channels behind gamma band activity in the pedunculopontine nucleus (PPN). Physiological Reports, 2015, 3, e12431.	1.7	36
49	Pedunculopontine Gamma Band Activity and Development. Brain Sciences, 2015, 5, 546-567.	2.3	8
50	Psychostimulant-Induced Testicular Toxicity in Mice: Evidence of Cocaine and Caffeine Effects on the Local Dopaminergic System. PLoS ONE, 2015, 10, e0142713.	2.5	18
51	Differential Effects of Environment-Induced Changes in Body Temperature on Modafinilâ€™s Actions Against Methamphetamine-Induced Striatal Toxicity in Mice. Neurotoxicity Research, 2015, 27, 71-83.	2.7	12
52	Governing Principles of Brain Activity. , 2015, , 1-16.		2
53	Other Regions Modulating Waking. , 2015, , 35-47.		0
54	Wiring Diagram of the RAS. , 2015, , 49-80.		0

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55	Development and the RAS. , 2015, , 81-105.		0
56	Ascending Projections of the RAS. , 2015, , 107-128.		0
57	The 10Hz Fulcrum. , 2015, , 157-170.		4
58	Descending Projections of the RAS. , 2015, , 129-156.		1
59	Neurological Disorders and the RAS. , 2015, , 255-276.		0
60	Psychiatric Disorders and the RAS. , 2015, , 227-254.		0
61	Preconscious Awareness. , 2015, , 209-226.		0
62	Gamma Band Activity. , 2015, , 171-207.		1
63	Drug Abuse and the RAS. , 2015, , 277-289.		0
64	Pedunculopontine arousal system physiologyâ€"Implications for schizophrenia. Sleep Science, 2015, 8, 82-91.	1.0	7
65	Pedunculopontine arousal system physiology â€“ Deep brain stimulation (DBS). Sleep Science, 2015, 8, 153-161.	1.0	14
66	Modulation of gamma oscillations in the pedunculopontine nucleus by neuronal calcium sensor protein-1: relevance to schizophrenia and bipolar disorder. Journal of Neurophysiology, 2015, 113, 709-719.	1.8	31
67	The physiology of the pedunculopontine nucleus: implications for deep brain stimulation. Journal of Neural Transmission, 2015, 122, 225-235.	2.8	51
68	Pedunculopontine Nucleus Gamma Band Activity-Preconscious Awareness, Waking, and REM Sleep. Frontiers in Neurology, 2014, 5, 210.	2.4	32
69	Gamma band activity in the RAS-intracellular mechanisms. Experimental Brain Research, 2014, 232, 1509-1522.	1.5	46
70	The use of three-dimensional printing to produce in vitro slice chambers. Journal of Neuroscience Methods, 2014, 238, 82-87.	2.5	19
71	Modafinil improves methamphetamine-induced object recognition deficits and restores prefrontal cortex ERK signaling in mice. Neuropharmacology, 2014, 87, 188-197.	4.1	53
72	Visualization of fast calcium oscillations in the parafascicular nucleus. Pflugers Archiv European Journal of Physiology, 2013, 465, 1327-1340.	2.8	20

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73	Effects of leptin on pedunculopontine nucleus (PPN) neurons. Journal of Neural Transmission, 2013, 120, 1027-1038.	2.8	9
74	Coherence and frequency in the reticular activating system (RAS). Sleep Medicine Reviews, 2013, 17, 227-238.	8.5	78
75	Role of Gâ€proteins in the effects of leptin on pedunculopontine nucleus neurons. Journal of Neurochemistry, 2013, 126, 705-714.	3.9	9
76	Spatiotemporal properties of high-speed calcium oscillations in the pedunculopontine nucleus. Journal of Applied Physiology, 2013, 115, 1402-1414.	2.5	44
77	Differential effects of methylphenidate and cocaine on <scp>GABA</scp> transmission in sensory thalamic nuclei. Journal of Neurochemistry, 2013, 124, 602-612.	3.9	25
78	Muscarinic Modulation of High Frequency Oscillations in Pedunculopontine Neurons. Frontiers in Neurology, 2013, 4, 176.	2.4	26
79	Gamma band activity in the developing parafascicular nucleus. Journal of Neurophysiology, 2012, 107, 772-784.	1.8	36
80	Improvement in arousal, visual neglect, and perception of stimulus intensity following cold pressor stimulation. Neurocase, 2012, 18, 115-122.	0.6	12
81	Developmental Changes in Glutamatergic Fast Synaptic Neurotransmission in the Dorsal Subcoeruleus Nucleus. Sleep, 2012, 35, 407-417.	1.1	6
82	Gamma Band Activity in the Reticular Activating System. Frontiers in Neurology, 2012, 3, 6.	2.4	34
83	Neural Mechanisms of Sleep and Circadian Rhythms. , 2012, , 59-71.		0
84	Modafinil Abrogates Methamphetamine-Induced Neuroinflammation and Apoptotic Effects in the Mouse Striatum. PLoS ONE, 2012, 7, e46599.	2.5	73
85	Wind-up of stretch reflexes as a measure of spasticity in chronic spinalized rats: The effects of passive exercise and modafinil. Experimental Neurology, 2011, 227, 104-109.	4.1	19
86	Responses of developing pedunculopontine neurons to glutamate receptor agonists. Journal of Neurophysiology, 2011, 105, 1918-1931.	1.8	8
87	Effects of Glutamate Receptor Agonists on the P13 Auditory Evoked Potential and Startle Response in the Rat. Frontiers in Neurology, 2011, 2, 3.	2.4	1
88	Mechanism behind gamma band activity in the pedunculopontine nucleus. European Journal of Neuroscience, 2011, 34, 404-415.	2.6	86
89	The pedunculopontine tegmental nucleus: from basic neuroscience to neurosurgical applications. Journal of Neural Transmission, 2011, 118, 1397-1407.	2.8	33
90	Commentary: The pedunculopontine nucleus: clinical experience, basic questions and future directions. Journal of Neural Transmission, 2011, 118, 1391-1396.	2.8	23

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91	Novel mechanism for hyperreflexia and spasticity. Progress in Brain Research, 2011, 188, 167-180.	1.4	21
92	Cold pressor stimulation diminishes P50 amplitude in normal subjects. Acta Neurobiologiae Experimentalis, 2011, 71, 348-58.	0.7	3
93	Cholinergic Modulation of Fast Inhibitory and Excitatory Transmission to Pedunculopontine Thalamic Projecting Neurons. Journal of Neurophysiology, 2010, 103, 2417-2432.	1.8	52
94	Oocyte triplet pairing for electrophysiological investigation of gap junctional coupling. Journal of Neuroscience Methods, 2010, 188, 280-286.	2.5	0
95	l-Dopa effect on frequency-dependent depression of the H-reflex in adult rats with complete spinal cord transection. Brain Research Bulletin, 2010, 83, 262-265.	3.0	13
96	Potentiating Effect of Eszopiclone on GABAA Receptor-Mediated Responses in Pedunculopontine Neurons. Sleep, 2009, 32, 879-887.	1.1	7
97	Cholinergic Modulation of GABAergic and Glutamatergic Transmission in the Dorsal Subcoeruleus: Mechanisms for REM Sleep Control. Sleep, 2009, 32, 1135-1147.	1.1	26
98	Cholinergic Responses and Intrinsic Membrane Properties of Developing Thalamic Parafascicular Neurons. Journal of Neurophysiology, 2009, 102, 774-785.	1.8	15
99	Genetic Predictions of Future Dangerousness: Is there a Blueprint for Violence?. , 2009, , 389-437.		5
100	Long-term deficits of preterm birth: Evidence for arousal and attentional disturbances. Clinical Neurophysiology, 2008, 119, 1281-1291.	1.5	21
101	The effects of passive exercise therapy initiated prior to or after the development of hyperreflexia following spinal transection. Experimental Neurology, 2008, 213, 405-409.	4.1	19
102	Magnetic sources of the M50 response are localized to frontal cortex. Clinical Neurophysiology, 2008, 119, 388-398.	1.5	39
103	Modafinil Increases Arousal Determined by P13 Potential Amplitude: An Effect Blocked by Gap Junction Antagonists. Sleep, 2008, 31, 1647-1654.	1.1	46
104	The Developmental Decrease in REM Sleep: The Role of Transmitters and Electrical Coupling. Sleep, 2008, 31, 673-690.	1.1	88
105	Novel Mechanism for Sleep-Wake Control: Electrical Coupling. , 2008, 14, 8-10.		3
106	Electrical Coupling: Novel Mechanism for Sleep-Wake Control. Sleep, 2007, 30, 1405-1414.	1.1	104
107	GABAergic modulation of developing pedunculopontine nucleus. NeuroReport, 2007, 18, 249-253.	1.2	5
108	Smoking during pregnancy: Postnatal effects on arousal and attentional brain systems. NeuroToxicology, 2007, 28, 915-923.	3.0	24

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109	Evidence for Electrical Coupling in the SubCoeruleus (SubC) Nucleus. Journal of Neurophysiology, 2007, 97, 3142-3147.	1.8	51
110	Muscarinic and nicotinic responses in the developing pedunculopontine nucleus (PPN). Brain Research, 2007, 1129, 147-155.	2.2	21
111	Alpha-2 adrenergic regulation of pedunculopontine nucleus neurons during development. Neuroscience, 2006, 141, 769-779.	2.3	13
112	Bias in magnitude estimation following left hemisphere injury. Neuropsychologia, 2006, 44, 1406-1412.	1.6	30
113	Arousal and attention deficits in patients with tinnitus. International Tinnitus Journal, 2006, 12, 9-16.	0.2	29
114	Use of a Motorized Bicycle Exercise Trainer to Normalize Frequency-Dependent Habituation of the H-reflex in Spinal Cord Injury. Journal of Spinal Cord Medicine, 2005, 28, 241-245.	1.4	49
115	Neuropharmacology of Sleep and Wakefulness. , 2005, , 63-71.		0
116	Nicotine suppresses the P13 auditory evoked potential by acting on the pedunculopontine nucleus in the rat. Experimental Brain Research, 2005, 164, 109-119.	1.5	20
117	Modulation of the Sleep Stateâ€“Dependent P50 Midlatency Auditory-Evoked Potential by Electric Stimulation of Acupuncture Points. Archives of Physical Medicine and Rehabilitation, 2005, 86, 2018-2026.	0.9	4
118	Arousal mechanisms related to posture and locomotion: 2. Ascending modulation. Progress in Brain Research, 2004, 143, 291-298.	1.4	44
119	Arousal mechanisms related to posture and locomotion: 1. Descending modulation. Progress in Brain Research, 2004, 143, 283-90.	1.4	25
120	Developmental changes in the effects of serotonin on neurons in the region of the pedunculopontine nucleus. Developmental Brain Research, 2003, 140, 57-66.	1.7	24
121	The midlatency auditory evoked potential P50 is abnormal in Huntington's disease. Journal of the Neurological Sciences, 2003, 212, 1-5.	0.6	53
122	Propofol suppresses the sleep state-dependent P13 midlatency auditory evoked potential in the rat. Brain Research Bulletin, 2003, 61, 189-196.	3.0	6
123	Effects of rotation on the sleep state-dependent midlatency auditory evoked P50 potential in the human. Journal of Vestibular Research: Equilibrium and Orientation, 2003, 12, 205-209.	2.0	4
124	The sleep state-dependent midlatency auditory evoked P50 potential in various disorders. Thalamus & Related Systems, 2002, 2, 9-19.	0.5	9
125	The sleep state-dependent P50 auditory evoked potential in neuropsychiatric diseases. International Congress Series, 2002, 1232, 813-825.	0.2	3
126	Effects of rotation on the sleep state-dependent midlatency auditory evoked P50 potential in the human. Journal of Vestibular Research: Equilibrium and Orientation, 2002, 12, 205-9.	2.0	5

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127	Cholinergic modulation of the sleep state-dependent P13 midlatency auditory evoked potential in the rat. Brain Research, 2000, 884, 196-200.	2.2	19
128	Serotonergic modulation of the P13 midlatency auditory evoked potential in the rat. Brain Research Bulletin, 2000, 51, 387-391.	3.0	25
129	Locus coeruleus involvement in the effects of immobilization stress on the P13 midlatency auditory evoked potential in the rat. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2000, 24, 1177-1201.	4.8	30
130	Sensory gating of the P13 midlatency auditory evoked potential and the startle response in the rat. Brain Research, 1999, 822, 60-71.	2.2	47
131	Effects of fetal spinal cord tissue transplants and cycling exercise on the soleus muscle in spinalized rats. , 1999, 22, 846-856.		72
132	Combat veterans with posttraumatic stress disorder exhibit decreased habituation of the P1 midlatency auditory evoked potential. Life Sciences, 1997, 61, 1421-1434.	4.3	71
133	Decreased habituation of midlatency auditory evoked responses in parkinson's disease. Movement Disorders, 1997, 12, 655-664.	3.9	77
134	A case of REM sleep behavior disorder with autopsy-confirmed alzheimer's disease: postmortem brain stem histochemical analyses. Biological Psychiatry, 1996, 40, 422-425.	1.3	71
135	Synaptic Evoked Potentials from Regenerating Dorsal Root Axons within Fetal Spinal Cord Tissue Transplants. Experimental Neurology, 1996, 139, 278-290.	4.1	27
136	HLA Class II genes associated with REM sleep behavior disorder. Annals of Neurology, 1996, 39, 261-263.	5.3	82
137	The P1: Insights into Attention and Arousal. Pediatric Neurosurgery, 1994, 20, 57-62.	0.7	41
138	The brain stem reticular formation in schizophrenia. Psychiatry Research - Neuroimaging, 1991, 40, 31-48.	1.8	101
139	The Basal Ganglia and the Mesencephalic Locomotor Region. , 1986, , 77-103.		11
140	Effects of electrical stimulation on acetylcholine synthesis in cat caudate nucleus. Brain Research Bulletin, 1983, 10, 437-440.	3.0	3
141	Connections of the mesencephalic locomotor region (MLR) III. Intracellular recordings. Brain Research Bulletin, 1983, 10, 73-81.	3.0	27
142	Topographical organization of visual input to precruciate cortex of cat. Brain Research, 1973, 56, 151-163.	2.2	29
143	Translational Research on Spinal Cord Injury. , 0, , 97-108.		0
144	Implications for the Future. , 0, , 135-143.		0

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145	Mentoring in Translational Neuroscience. , 0, , 15-28.		0