Eugenio Scarnati

List of Publications by Year
in descending order

93 papers	4,891 citations	159358 30 h-index	91712 69 g-index
97 all docs	97 docs citations	97 times ranked	3376 citing authors

#	Article	IF	Citations
1	Contribution of different somatosensory afferent input to subcortical somatosensory evoked potentials in humans. Clinical Neurophysiology, 2021, 132, 2357-2364.	0.7	2
2	Pedunculopontine tegmental Nucleus-evoked prepulse inhibition of the blink reflex in Parkinsonâ€™s disease. Clinical Neurophysiology, 2021, 132, 2729-2738.	0.7	3
3	Comparison between Tail Suspension Swing Test and Standard Rotation Test in Revealing Early Motor Behavioral Changes and Neurodegeneration in 6-OHDA Hemiparkinsonian Rats. International Journal of Molecular Sciences, 2020, 21, 2874.	1.8	11
4	High Cervical Spinal Cord Stimulation: A One Year Follow-Up Study on Motor and Non-Motor Functions in Parkinsonâ€™s Disease. Brain Sciences, 2019, 9, 78.	1.1	23
5	Deep brain stimulation of the pedunculopontine tegmental nucleus and arousal in Parkinsonâ€™s disease. , 2019, , 143-159.		1
6	CM-Pf deep brain stimulation and the long term management of motor and psychiatric symptoms in a case of Tourette syndrome. Journal of Clinical Neuroscience, 2019, 62, 269-272.	0.8	12
7	Neurophysiology of the pedunculopontine tegmental nucleus. Neurobiology of Disease, 2019, 128, 19-30.	2.1	26
8	Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus Improves Static Balance in Parkinsonâ€™s Disease. , 2018, , 967-976.		2
9	Frameless Stereotaxis for Subthalamic Nucleus Deep Brain Stimulation: An Innovative Method for the Direct Visualization of Electrode Implantation by Intraoperative X-ray Control. Brain Sciences, 2018, 8, 90.	1.1	9
10	The Basal Ganglia: More than just a switching device. CNS Neuroscience and Therapeutics, 2018, 24, 677-684.	1.9	48
11	Fluorescent light induces neurodegeneration in the rodent nigrostriatal system but near infrared LED light does not. Brain Research, 2017, 1662, 87-101.	1.1	20
12	Our first decade of experience in deep brain stimulation of the brainstem: elucidating the mechanism of action of stimulation of the ventrolateral pontine tegmentum. Journal of Neural Transmission, 2016, 123, 751-767.	1.4	26
13	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.	1.4	7
14	Cholinergic excitation from the pedunculopontine tegmental nucleus to the dentate nucleus in the rat. Neuroscience, 2016, 317, 12-22.	1.1	30
15	Cholinergic input from the pedunculopontine nucleus to the cerebellum: implications for deep brain stimulation in Parkinsonâ€²s disease. Neural Regeneration Research, 2016, 11, 729.	1.6	6
16	Somatosensory evoked responses and lead position for deep brain stimulation in the brainstem: their relationships are helpful in the precise targeting of the pedunculopontine tegmental nucleus. Brain Stimulation, 2015, 8, 333.	0.7	0
17	Eyes as Gateways for Environmental Light to the Substantia Nigra: Relevance in Parkinsonâ€™s Disease. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	6
18	Continuous stimulation of the pedunculopontine tegmental nucleus at 40Hz affects preparative and executive control in a delayed sensorimotor task and reduces rotational movements induced by apomorphine in the 6-OHDA parkinsonian rat. Behavioural Brain Research, 2014, 271, 333-342.	1.2	5

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19	Low and high-frequency somatosensory evoked potentials recorded from the human pedunculopontine nucleus. Clinical Neurophysiology, 2014, 125, 1859-1869.	0.7	16
20	Unilateral deep brain stimulation of the pedunculopontine tegmental nucleus in idiopathic Parkinsonâ€™s disease: Effects on gait initiation and performance. Gait and Posture, 2014, 40, 357-362.	0.6	43
21	The temporal context of certaintyâ€“uncertainty modulates the subthalamic nucleus-mediated anticipatory responding. Behavioural Brain Research, 2013, 247, 40-47.	1.2	0
22	The Clinical Effects of Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus in Movement Disorders May Not Be Related to the Anatomical Target, Leads Location, and Setup of Electrical Stimulation. Neurosurgery, 2013, 73, 894-906.	0.6	38
23	A Commentary on the Lead Positioning for Deep Brain Stimulation in the Pedunculopontine Tegmental Nucleus in a Patient Affected by Multiple System Atrophy. Stereotactic and Functional Neurosurgery, 2012, 90, 130-133.	0.8	1
24	Uncertainty, misunderstanding and the pedunculopontine nucleus: the exhumation of an already buried dispute. Acta Neurochirurgica, 2012, 154, 1527-1529.	0.9	3
25	Unilateral deep brain stimulation of the pedunculopontine tegmental nucleus improves oromotor movements in Parkinsonâ€™s disease. Brain Stimulation, 2012, 5, 634-641.	0.7	12
26	Is urinary incontinence a true consequence of deep brain stimulation of the pedunculopontine tegmental nucleus in Parkinsonâ€™s disease?. Acta Neurochirurgica, 2012, 154, 831-834.	0.9	5
27	Commentary: The pedunculopontine nucleus: clinical experience, basic questions and future directions. Journal of Neural Transmission, 2011, 118, 1391-1396.	1.4	23
28	The pedunculopontine tegmental nucleus: implications for a role in modulating spinal cord motoneuron excitability. Journal of Neural Transmission, 2011, 118, 1409-1421.	1.4	19
29	The deep brain stimulation of the pedunculopontine tegmental nucleus: towards a new stereotactic neurosurgery. Journal of Neural Transmission, 2011, 118, 1431-1451.	1.4	48
30	Effects of unilateral pedunculopontine stimulation on electromyographic activation patterns during gait in individual patients with Parkinsonâ€™s disease. Journal of Neural Transmission, 2011, 118, 1477-1486.	1.4	21
31	The pedunculopontine nucleus: from basic neuroscience to translational applications for Parkinsonâ€™s disease. Journal of Neural Transmission, 2011, 118, 1389-1390.	1.4	1
32	Where are the somatosensory evoked potentials recorded from DBS leads implanted in the human pedunculopontine tegmental nucleus generated?. Movement Disorders, 2011, 26, 1572-1573.	2.2	10
33	Reply: Where are the somatosensory evoked potentials recorded from DBS leads implanted in the human pedunculopontine tegmental nucleus generated?. Movement Disorders, 2011, 26, 1573-1574.	2.2	2
34	The deep brain stimulation of the pedunculopontine tegmental nucleus: The (un)certainty of the stimulating site. Parkinsonism and Related Disorders, 2010, 16, 148.	1.1	4
35	Low frequency stimulation of the pedunculopontine nucleus modulates electrical activity of subthalamic neurons in the rat. Journal of Neural Transmission, 2009, 116, 51-56.	1.4	13
36	The Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus. Neuromodulation, 2009, 12, 191-204.	0.4	55

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37	Deep Brain Stimulation of the Medial Thalamus for Movement Disorders. , 2009, , 599-615.		8
38	In vivo electrophysiology of dopamineâ€denervated striatum: Focus on the nitric oxide/cGMP signaling pathway. Synapse, 2008, 62, 409-420.	0.6	30
39	Stereotactic surgery of nucleus tegmenti pedunculopontini. British Journal of Neurosurgery, 2008, 22, S33-S40.	0.4	72
40	Deep brain stimulation promotes excitation and inhibition in subthalamic nucleus in Parkinson's disease. NeuroReport, 2008, 19, 661-666.	0.6	29
41	Reply: The peripeduncular and pedunculopontine nuclei: a putative dispute not discouraging the effort to define a clinically relevant target. Brain, 2007, 130, e74-e74.	3.7	4
42	Peripeduncular and pedunculopontine nuclei: a dispute on a clinically relevant target. NeuroReport, 2007, 18, 1407-1408.	0.6	46
43	Bilateral deep brain stimulation of the pedunculopontine and subthalamic nuclei in severe Parkinson's disease. Brain, 2007, 130, 1596-1607.	3.7	739
44	High-frequency stimulation of the subthalamic nucleus modulates the activity of pedunculopontine neurons through direct activation of excitatory fibres as well as through indirect activation of inhibitory pallidal fibres in the rat. European Journal of Neuroscience, 2007, 25, 1174-1186.	1.2	60
45	Implantation of human pedunculopontine nucleus: a safe and clinically relevant target in Parkinson's disease. NeuroReport, 2005, 16, 1877-1881.	0.6	383
46	The pedunculopontine nucleus projection to the parafascicular nucleus of the thalamus: an electrophysiological investigation in the rat. Journal of Neural Transmission, 2003, 110, 733-747.	1.4	28
47	Behavioural learning-induced increase in spontaneous GABAA-dependent synaptic activity in rat striatal cholinergic interneurons. European Journal of Neuroscience, 2003, 17, 174-178.	1.2	11
48	Role of tonically-active neurons in the control of striatal function: Cellular mechanisms and behavioral correlates. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2001, 25, 211-230.	2.5	54
49	Unilateral lesions of the pedunculopontine nucleus do not alleviate subthalamic nucleus-mediated anticipatory responding in a delayed sensorimotor task in the rat. Behavioural Brain Research, 2001, 126, 93-103.	1.2	14
50	The thalamus as a place for interaction between the input and the output systems of the basal ganglia: a commentary. Journal of Chemical Neuroanatomy, 1999, 16, 149-152.	1.0	7
51	Dopamine denervation of specific striatal subregions differentially affects preparation and execution of a delayed response task in the rat. Behavioural Brain Research, 1999, 104, 51-62.	1.2	15
52	The function of the pedunculopontine nucleus in the preparation and execution of an externally-cued bar pressing task in the rat. Behavioural Brain Research, 1999, 104, 95-104.	1.2	28
53	MRI Helps in the Early Diagnosis of Corticobasilar Degeneration. The Neuroradiology Journal, 1998, 11, 13-14.	0.1	2
54	Transplantation of Mesencephalic Cell Suspension in Dopamine-Denervated Striatum of the Rat. Experimental Neurology, 1997, 146, 142-150.	2.0	4

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55	The pedunculopontine nucleus and related structures. Functional organization. Advances in Neurology, 1997, 74, 97-110.	0.8	21
56	Transplantation of Mesencephalic Cell Suspension in Dopamine-Denervated Striatum of the Rat. Experimental Neurology, 1996, 138, 318-326.	2.0	15
57	Short-latency excitation of hindlimb motoneurons induced by electrical stimulation of the pontomesencephalic tegmentum in the rat. Neuroscience Letters, 1994, 169, 13-16.	1.0	9
58	Regulatory Action of the Dopaminergic Nigrostriatal Pathway on the Corticostriatal Transmission. Advances in Behavioral Biology, 1994, , 277-283.	0.2	0
59	Influence of prelimbic and sensorimotor cortices on striatal neurons in the rat: electrophysiological evidence for converging inputs and the effects of 6-OHDA-induced degeneration of the substantia nigra. Brain Research, 1993, 619, 180-188.	1.1	27
60	Chapter 15 Reward-related activity in the monkey striatum and substantia nigra. Progress in Brain Research, 1993, 99, 227-235.	0.9	91
61	Neuronal activity in monkey ventral striatum related to the expectation of reward. Journal of Neuroscience, 1992, 12, 4595-4610.	1.7	755
62	Neuronal activity in monkey striatum related to the expectation of predictable environmental events. Journal of Neurophysiology, 1992, 68, 945-960.	0.9	244
63	Role of primate basal ganglia and frontal cortex in the internal generation of movements. Experimental Brain Research, 1992, 91, 385-395.	0.7	168
64	Evidence that non-NMDA receptors are involved in the excitatory pathway from the pedunculopontine region to nigrostriatal dopaminergic neurons. Experimental Brain Research, 1992, 89, 79-86.	0.7	77
65	Tonically discharging neurons of monkey striatum respond to preparatory and rewarding stimuli. Experimental Brain Research, 1991, 84, 672-5.	0.7	156
66	Responses to reward in monkey dorsal and ventral striatum. Experimental Brain Research, 1991, 85, 491-500.	0.7	313
67	Deficits in reaction times and movement times as correlates of hypokinesia in monkeys with MPTP-induced striatal dopamine depletion. Journal of Neurophysiology, 1989, 61, 651-668.	0.9	57
68	Saccadic reaction times, eye-arm coordination and spontaneous eye movements in normal and MPTP-treated monkeys. Experimental Brain Research, 1989, 78, 253-67.	0.7	32
69	Protection against 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonism by the catecholamine uptake inhibitor nomifensine: Behavioral analysis in monkeys with partial striatal dopamine depletions. Neuroscience, 1989, 31, 219-230.	1.1	15
70	The functional role of the pedunculopontine nucleus in the regulation of the electrical activity of entopeduncular neurons in the rat. Archives Italiennes De Biologie, 1988, 126, 145-63.	0.1	20
71	An EM and Golgi study on the connection between the nucleus tegmenti pedunculopontinus and the pars compacta of the substantia nigra in the rat. Journal FÃ¼r Hirnforschung, 1988, 29, 95-105.	0.0	7
72	Increase in glutamate sensitivity of subthalamic nucleus neurons following bilateral decortication: a microiontophoretic study in the rat. Brain Research, 1987, 403, 366-370.	1.1	11

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73	The reciprocal electrophysiological influence between the nucleus tegmenti pedunculopontinus and the substantia nigra in normal and decorticated rats. Brain Research, 1987, 423, 116-124.	1.1	84
74	The organization of nucleus tegmenti pedunculopontinus neurons projecting to basal ganglia and thalamus: a retrograde fluorescent double labeling study in the rat. Neuroscience Letters, 1987, 79, 11-16.	1.0	46
75	Pharmacological study of the cortical-induced excitation of subthalamic nucleus neurons in the rat: Evidence for amino acids as putative neurotransmitters. Neuroscience, 1987, 21, 429-440.	1.1	90
76	The catecholamine uptake blocker nomifensine protects against MPTP-induced parkinsonism in monkeys. Experimental Brain Research, 1986, 63, 216-20.	0.7	35
77	A microiontophoretic study on the nature of the putative synaptic neurotransmitter involved in the pedunculopontine-substantia nigra pars compacta excitatory pathway of the rat. Experimental Brain Research, 1986, 62, 470-8.	0.7	137
78	Bilateral corticosubthalamic nucleus projections: An electrophysiological study in rats with chronic cerebral lesions. Neuroscience, 1985, 15, 69-79.	1.1	75
79	Pedunculopontine-evoked excitation of substantia nigra neurons in the rat. Brain Research, 1984, 304, 351-361.	1.1	108
80	PEDUNCULOPONTINE PROJECTIONS TO THE EXTRAPYRAMIDAL SYSTEM AND THEIR ROLE IN THE REGULATION OF THE SUBSTANTIA NIGRA PARS COMPACTA. Clinical Neuropharmacology, 1984, 7, S37.	0.2	2
81	The functional role of the nucleus accumbens in the control of the substantia nigra: Electrophysiological investigations in intact and striatum-globus pallidus lesioned rats. Brain Research, 1983, 265, 249-257.	1.1	19
82	Microiontophoretic studies on the nature of the neurotransmitter in the subthalamo-entopeduncular pathway of the rat. Brain Research, 1983, 271, 11-20.	1.1	43
83	Electrophysiological evidence for an inhibitory accumbens-entopeduncular pathway in the rat. Neuroscience Letters, 1982, 33, 35-40.	1.0	9
84	Neuronal responses to iontophoretically applied dopamine, glutamate, and GABA of identified dopaminergic cells in the rat substantia nigra after kainic acid-induced destruction of the striatum. Experimental Brain Research, 1982, 46, 377-382.	0.7	34
85	microinjections in behavioural rats. Bollettino Della SocietÃ Italiana Di Biologia Sperimentale, 1981, 57, 919-25.	0.0	1
86	Dopaminergic and non-dopaminergic neurons in substantia nigra: Differential response to bromocriptine. Journal of Neural Transmission, 1980, 48, 297-303.	1.4	6
87	Determination of red cell survival in rabbits by fluorescent excitation analysis of stable rubidium. Medical Physics, 1980, 7, 97-100.	1.6	2
88	Responsiveness of nigral neurons to the stimulation of striatal dopaminergic receptors in the rat. Life Sciences, 1980, 26, 1203-1209.	2.0	10
89	Striatal cholinergic receptors and dyskinetic motor activity in the rat. Neuroscience Letters, 1980, 20, 363-367.	1.0	7
90	Electrophysiological and behavioural correlations during the manipulations of GABA functions in the Substantia Nigra by n-dipropylacetate and Picrotoxin. Pharmacological Research Communications, 1979, 11, 817-824.	0.2	6

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91	Sleep induced by low doses of apomorphine in rats. Electroencephalography and Clinical Neurophysiology, 1979, 46, 214-219.	0.3	57
92	Evidence for an intrastriatal GABA control on motor activity arising from dopaminergic hyperfuction in the striatum. Acta Neurologica, 1978, 33, 304-313.	0.1	0
93	Behavioural and electrocortical modifications induced in the rat by intraventricular injection of physalaemin and eledoisin. Psychopharmacology, 1974, 38, 211-218.	1.5	15