Daniel S Zahm

List of Publications by Year
in descending order

109 papers	11,652 citations	47006 47 h-index	29157 104 g-index
110 all docs	110 docs citations	110 times ranked	6415 citing authors

#	Article	IF	Citations
1	Specificity in the projection patterns of accumbal core and shell in the rat. Neuroscience, 1991, 41, 89-125.	2.3	1,105
2	The patterns of afferent innervation of the core and shell in the ?Accumbens? part of the rat ventral striatum: Immunohistochemical detection of retrogradely transported fluoro-gold. Journal of Comparative Neurology, 1993, 338, 255-278.	1.6	1,031
3	On the significance of subterritories in the â€œaccumbensâ€• part of the rat ventral striatum. Neuroscience, 1992, 50, 751-767.	2.3	989
4	An integrative neuroanatomical perspective on some subcortical substrates of adaptive responding with emphasis on the nucleus accumbens. Neuroscience and Biobehavioral Reviews, 2000, 24, 85-105.	6.1	437
5	Glutamatergic Afferents of the Ventral Tegmental Area in the Rat. Journal of Neuroscience, 2007, 27, 5730-5743.	3.6	403
6	The mesopontine rostromedial tegmental nucleus: A structure targeted by the lateral habenula that projects to the ventral tegmental area of Tsai and substantia nigra compacta. Journal of Comparative Neurology, 2009, 513, 566-596.	1.6	391
7	Specificity in the efferent projections of the nucleus accumbens in the rat: Comparison of the rostral pole projection patterns with those of the core and shell. Journal of Comparative Neurology, 1993, 327, 220-232.	1.6	378
8	Two transpallidal pathways originating in the rat nucleus accumbens. Journal of Comparative Neurology, 1990, 302, 437-446.	1.6	356
9	The accumbens: beyond the core-shell dichotomy. Journal of Neuropsychiatry and Clinical Neurosciences, 1997, 9, 354-381.	1.8	350
10	Afferents of the ventral tegmental area in the rat-anatomical substratum for integrative functions. Journal of Comparative Neurology, 2005, 490, 270-294.	1.6	335
11	Functionalâ€anatomical Implications of the Nucleus Accumbens Core and Shell Subterritories. Annals of the New York Academy of Sciences, 1999, 877, 113-128.	3.8	313
12	The ventral striatopallidal parts of the basal ganglia in the ratâ€"II. Compartmentation of ventral pallidal efferents. Neuroscience, 1989, 30, 33-50.	2.3	225
13	Insulin gene expression and insulin synthesis in mammalian neuronal cells. Journal of Biological Chemistry, 1994, 269, 8445-54.	3.4	221
14	Ventral striatopallidal parts of the basal ganglia in the rat: I. Neurochemical compartmentation as reflected by the distributions of neurotensin and substance P immunoreactivity. Journal of Comparative Neurology, 1988, 272, 516-535.	1.6	202
15	Specificity in the Projections of Prefrontal and Insular Cortex to Ventral Striatopallidum and the Extended Amygdala. Journal of Neuroscience, 2005, 25, 11757-11767.	3.6	199
16	Morphological differences between projection neurons of the core and shell in the nucleus accumbens of the rat. Neuroscience, 1992, 50, 149-162.	2.3	192
17	Altered Dendritic Spine Plasticity in Cocaine-Withdrawn Rats. Journal of Neuroscience, 2009, 29, 2876-2884.	3.6	192
18	Evidence for the coexistence of glutamate decarâ˜ylase and Met-enkephalin immunoreactivities in axon terminals of rat ventral pallidum. Brain Research, 1985, 325, 317-321.	2.2	190

#	Article	IF	Citations
19	3,4-Dihydroxyphenylacetaldehyde is the toxic dopamine metabolite in vivo: implications for Parkinsonâ€™s disease pathogenesis. Brain Research, 2003, 989, 205-213.	2.2	182
20	Neurotoxicity of MAO Metabolites of Catecholamine Neurotransmitters: Role in Neurodegenerative Diseases. NeuroToxicology, 2004, 25, 101-115.	3.0	177
21	An update on the connections of the ventral mesencephalic dopaminergic complex. Neuroscience, 2014, 282, 23-48.	2.3	153
22	The evolving theory of basal forebrain functionalâ€"anatomical â€˜macrosystemsâ€™. Neuroscience and Biobehavioral Reviews, 2006, 30, 148-172.	6.1	139
23	Separate Prefrontal-Subcortical Circuits Mediate Different Components of Risk-Based Decision Making. Journal of Neuroscience, 2012, 32, 2886-2899.	3.6	137
24	Ventral striatopallidothalamic projection: IV. Relative involvements of neurochemically distinct subterritories in the ventral pallidum and adjacent parts of the rostroventral forebrain. , 1996, 364, 340-362.		131
25	Compartments in rat dorsal and ventral striatum revealed following injection of 6-hydroxydopamine into the ventral mesencephalon. Brain Research, 1991, 552, 164-169.	2.2	120
26	An electron microscopic morphometric comparison of tyrosine hydroxylase immunoreactive innervation in the neostriatum and the nucleus accumbens core and shell. Brain Research, 1992, 575, 341-346.	2.2	118
27	The ventral striatopallidothalamic projection: I. The striatopallidal link originating in the striatal parts of the olfactory tubercle. Journal of Comparative Neurology, 1987, 255, 571-591.	1.6	109
28	Direct comparison of projections from the central amygdaloid region and nucleus accumbens shell. European Journal of Neuroscience, 1999, 11, 1119-1126.	2.6	106
29	The ventral striatopallidothalamic projection: II. The ventral pallidothalamic link. Journal of Comparative Neurology, 1987, 255, 592-605.	1.6	105
30	Developmental Regulation of the Distribution of Rat Brain Insulin-Insensitive (Glut 1) Glucose Transporter*. Endocrinology, 1991, 129, 1530-1540.	2.8	105
31	Effects of dopamine depletion on the morphology of medium spiny neurons in the shell and core of the rat nucleus accumbens. Journal of Neuroscience, 1995, 15, 3808-3820.	3.6	99
32	Sources of input to the rostromedial tegmental nucleus, ventral tegmental area, and lateral habenula compared: A study in rat. Journal of Comparative Neurology, 2015, 523, 2426-2456.	1.6	88
33	Immunocytochemical characterization of catecholaminergic neurons in the rat striatum following dopamine-depleting lesions. European Journal of Neuroscience, 1999, 11, 3585-3596.	2.6	80
34	Prominent Activation of Brainstem and Pallidal Afferents of the Ventral Tegmental Area by Cocaine. Neuropsychopharmacology, 2008, 33, 2688-2700.	5.4	76
35	The mediodorsal nucleus of the thalamus in ratsâ€"I. Forebrain gabaergic innervation. Neuroscience, 1996, 70, 93-102.	2.3	71
36	Neurotensin afferents of the ventral tegmental area in the rat: [1] re-examination of their origins and [2] responses to acute psychostimulant and antipsychotic drug administration. European Journal of Neuroscience, 2006, 24, 116-134.	2.6	70

#	Article	IF	Citations
37	Fos After Single and Repeated Self-Administration of Cocaine and Saline in the Rat: Emphasis on the Basal Forebrain and Recalibration of Expression. Neuropsychopharmacology, 2010, 35, 445-463.	5.4	70
38	Review of the cytology and connections of the lateral habenula, an avatar of adaptive behaving. Pharmacology Biochemistry and Behavior, 2017, 162, 3-21.	2.9	66
39	Activation of afferents to the ventral tegmental area in response to acute amphetamine: a doubleâ€labelling study. European Journal of Neuroscience, 2007, 26, 1011-1025.	2.6	62
40	On lateral septumâ€like characteristics of outputs from the accumbal hedonic â€œhotspotâ€• of PeciÃ±a and Berridge with commentary on the transitional nature of basal forebrain â€œboundariesâ€. Journal of Comparative Neurology, 2013, 521, 50-68.	1.6	62
41	Numbers of neurotensin-immunoreactive neurons selectively increased in rat ventral striatum following acute haloperidol administration. Neuropeptides, 1988, 11, 125-132.	2.2	61
42	Neurons of origin of the neurotensinergic plexus enmeshing the ventral tegmental area in rat: retrograde labeling and in situ hybridization combined. Neuroscience, 2001, 104, 841-851.	2.3	61
43	Brain neurotensin, psychostimulants, and stress â€“ emphasis on neuroanatomical substrates. Peptides, 2006, 27, 2364-2384.	2.4	61
44	Inputs to the midbrain dopaminergic complex in the rat, with emphasis on extended amygdalaâ€recipient sectors. Journal of Comparative Neurology, 2011, 519, 3159-3188.	1.6	56
45	Is the Caudomedial Shell of the Nucleus Accumbens Part of the Extended Amygdala? A Consideration of Connections. Critical Reviews in Neurobiology, 1998, 12, 245-265.	3.1	56
46	The ventral striatopallidothalamic projection. III. Striatal cells of the olfactory tubercle establish direct synaptic contact with ventral pallidal cells projecting to mediodorsal thalamus. Brain Research, 1987, 404, 327-331.	2.2	53
47	The mesopontine rostromedial tegmental nucleus: An integrative modulator of the reward system. Basal Ganglia, 2011, 1, 191-200.	0.3	50
48	Neurotensin-immunoreactive neurons in the ventral striatum of the adult rat: Ventromedial caudate-putamen, nucleus accumbens and olfactory tubercle. Neuroscience Letters, 1987, 81, 41-47.	2.1	48
49	Lipopolysaccharide and cyclic AMP regulation of CB2 cannabinoid receptor levels in rat brain and mouse RAW 264.7 macrophages. Journal of Neuroimmunology, 2006, 181, 82-92.	2.3	48
50	The innervation of the primate fungiform papilla â€” development, distribution and changes following selective ablation. Brain Research Reviews, 1985, 9, 147-186.	9.0	47
51	The Current Status of Neurotensin-Dopamine Interactions.. Annals of the New York Academy of Sciences, 1992, 668, 232-252.	3.8	47
52	The mediodorsal nucleus of the thalamus in ratsâ€"II. Behavioral and neurochemical effects of GABA agonists. Neuroscience, 1996, 70, 103-112.	2.3	47
53	Mesopontine rostromedial tegmental nucleus neurons projecting to the dorsal raphe and pedunculopontine tegmental nucleus: psychostimulant-elicited Fos expression and collateralization. Brain Structure and Function, 2012, 217, 719-734.	2.3	45
54	Asymmetrical distribution of neurotensin immunoreactivity following unilateral injection of 6-hydroxydopamine in rat ventral tegmental area (VTA). Brain Research, 1989, 483, 301-311.	2.2	43

#	Article	IF	Citations
55	Subsets of neurotensin-immunoreactive neurons revealed following antagonism of the dopamine-mediated suppression of neurotensin immunoreactivity in the rat striatum. Neuroscience, 1992, 46, 335-350.	2.3	43
56	Fetal development of primate chemosensory corpuscles. I. Synaptic relationships in late gestation. Journal of Comparative Neurology, 1983, 213, 146-162.	1.6	40
57	Distinct and interactive effects of d-amphetamine and haloperidol on levels of neurotensin and its mRNA in subterritories in the dorsal and ventral striatum of the rat. , 1998, 400, 487-503.		39
58	Fetal development of primate chemosensory corpuscles. II. Synaptic relationships in early gestation. Journal of Comparative Neurology, 1983, 219, 36-50.	1.6	38
59	Structure-function relationships in rat brainstem subnucleus interpolaris. X. Mechanisms underlying enlarged spared whisker projections after infraorbital nerve injury at birth. Journal of Neuroscience, 1993, 13, 2946-2964.	3.6	36
60	Ventral mesopontine projections of the caudomedial shell of the nucleus accumbens and extended amygdala in the rat: Double dissociation by organization and development. Journal of Comparative Neurology, 2001, 436, 111-125.	1.6	35
61	The caudal sublenticular region/anterior amygdaloid area is the only part of the rat forebrain and mesopontine tegmentum occupied by magnocellular cholinergic neurons that receives outputs from the central division of extended amygdala. Brain Research, 2002, 957, 207-222.	2.2	34
62	Discrimination of striatopallidum and extended amygdala in the rat: a role for parvalbumin immunoreactive neurons?. Brain Research, 2003, 978, 141-154.	2.2	34
63	Differential distribution of parvalbumin immunoreactive neurons in the striatum of cocaine sensitized rats. Neuroscience, 2004, 127, 35-42.	2.3	32
64	Differential effects of gestational buprenorphine, naloxone, and methadone on mesolimbic Î¼ opioid and ORL1 receptor G protein coupling. Developmental Brain Research, 2004, 151, 149-157.	1.7	31
65	The basal forebrain projection to the region of the nuclei gemini in the rat; A combined light and electron microscopic study employing horseradish peroxidase, fluorescent tracers and Phaseolus vulgaris-leucoagglutinin. Neuroscience, 1990, 34, 707-731.	2.3	29
66	Comparison of the locomotor-activating effects of bicuculline infusions into the preoptic area and ventral pallidum. Brain Structure and Function, 2014, 219, 511-526.	2.3	28
67	Postnatal development of striatal neurotensin immunoreactivity in relation to clusters of substance P immunoreactive neurons and the â€œdopamine islandsâ€•in the rat. Journal of Comparative Neurology, 1990, 296, 403-414.	1.6	27
68	Morphometric analysis of ventral mesencephalic neurons retrogradely labeled with Fluoro-Gold following injections in the shell, core and rostral pole of the rat nucleus accumbens. Brain Research, 1995, 689, 151-156.	2.2	27
69	Morphology and Fos immunoreactivity reveal two subpopulations of striatal neurotensin neurons following acute 6-hydroxydopamine lesions and reserpine administration. Neuroscience, 1995, 65, 71-86.	2.3	27
70	Decreased choline acetyltransferase immunoreactivity in discrete striatal subregions following chronic haloperidol in rats. Synapse, 2001, 39, 51-57.	1.2	27
71	Catecholamine monoamine oxidase a metabolite in adrenergic neurons is cytotoxic in vivo. Brain Research, 2001, 891, 218-227.	2.2	27
72	BDNF heterozygous mice demonstrate age-related changes in striatal and nigral gene expression. Experimental Neurology, 2006, 199, 362-372.	4.1	27

#	Article	IF	Citations
73	Neurotensin antagonist acutely and robustly attenuates locomotion that accompanies stimulation of a neurotensin-containing pathway from rostrobasal forebrain to the ventral tegmental area. European Journal of Neuroscience, 2006, 24, 188-196.	2.6	27
74	The Dopaminergic Projection System, Basal Forebrain Macrosystems, and Conditioned Stimuli. CNS Spectrums, 2008, 13, 32-40.	1.2	27
75	Synaptic contacts of ventral striatal cells in the olfactory tubercle of the rat: Correlated light and electron microscopy of anterogradely transported Phaseolus vulgaris-leucoagglutinin. Neuroscience Letters, 1985, 60, 169-175.	2.1	26
76	Calbindin-D 28kD immunofluorescence in ventral mesencephalic neurons labeled following injections of Fluoro-Gold in nucleus accumbens subterritories: inverse relationship relative to known neurotoxin vulnerabilities. Brain Research, 1999, 844, 67-77.	2.2	26
77	Modulation of Locomotor Activation by the Rostromedial Tegmental Nucleus. Neuropsychopharmacology, 2015, 40, 676-687.	5.4	26
78	Morphologically distinct subpopulations of neurotensin-immunoreactive striatal neurons observed in rat following dopamine depletions and D2 receptor blockade project to the globus pallidus. Neuroscience, 1996, 74, 805-812.	2.3	25
79	Protracted maturation of forebrain afferent connections of the ventral tegmental area in the rat. Journal of Comparative Neurology, 2014, 522, 1031-1047.	1.6	25
80	Lateral preoptic and ventral pallidal roles in locomotion and other movements. Brain Structure and Function, 2018, 223, 2907-2924.	2.3	23
81	Abundant collateralization of temporal lobe projections to the accumbens, bed nucleus of stria terminalis, central amygdala and lateral septum. Brain Structure and Function, 2017, 222, 1971-1988.	2.3	18
82	The Lateral Preoptic Area: A Novel Regulator of Reward Seeking and Neuronal Activity in the Ventral Tegmental Area. Frontiers in Neuroscience, 2019, 13, 1433.	2.8	18
83	Subsets of neurotensin-immunoreactive neurons in the rat striatal complex following antagonism of the dopamine D2 receptor: An immunohistochemical double-labeling study using antibodies against Fos. Neuroscience, 1993, 57, 649-660.	2.3	17
84	Patterns of glucose use after bicuculline-induced convulsions in relationship to Î³-aminobutyric acid and Î¼-opioid receptors in the ventral pallidum â€" functional markers for the ventral pallidum. Brain Research, 1992, 581, 39-45.	2.2	16
85	On the altered expression of tyrosine hydroxylase and calbindin-D 28kD immunoreactivities and viability of neurons in the ventral tegmental area of Tsai following injections of 6-hydroxydopamine in the medial forebrain bundle in the rat. Brain Research, 2000, 869, 56-68.	2.2	16
86	On the retention of neurotensin in the ventral tegmental area (VTA) despite destruction of the main neurotensinergic afferents of the VTA â€" Implications for the organization of forebrain projections to the VTA. Brain Research, 2006, 1087, 87-104.	2.2	16
87	Organization of the proximal, orbital segment of the infraorbital nerve at multiple intervals after axotomy at birth: A quantitative electron microscopic study in rat. Journal of Comparative Neurology, 1993, 338, 159-174.	1.6	15
88	Synaptologic and fine structural features distinguishing a subset of basal forebrain cholinergic neurons embedded in the dense intrinsic fiber network of the caudal extended amygdala. Journal of Comparative Neurology, 2006, 498, 93-111.	1.6	14
89	Oxytocin projections to the nucleus of the solitary tract contribute to the increased mealâ€related satiety responses in primary adrenal insufficiency. Experimental Physiology, 2013, 98, 1495-1504.	2.0	14
90	The lateral preoptic area and ventral pallidum embolden behavior. Brain Structure and Function, 2019, 224, 1245-1265.	2.3	14

#	Article	IF	Citations
91	Î³-Aminobutyric Acid and Âµ-Opioid Receptor Localization and Adaptation in the Basal Forebrain. Advances in Experimental Medicine and Biology, 1991, 295, 101-117.	1.6	14
92	Cholecystokinin concentrations and peptide immunoreactivity in the intact and deafferented medullary dorsal horn of the rat. Journal of Comparative Neurology, 1992, 326, 22-43.	1.6	13
93	Intrathecal capsaicin enhances one-kidney renal wrap hypertension in the rat. Journal of the Autonomic Nervous System, 1994, 50, 189-199.	1.9	13
94	Immunocytochemical co-localization of substance P and calcitonin gene-related peptide in afferent renal nerve soma of the rat. Neuroscience Letters, 1994, 173, 87-93.	2.1	13
95	Altered Fos-like immunoreactivity in terminal regions of the mesotelencephalic dopamine system is associated with reappearance of tyrosine hydroxylase immunoreactivity at the sites of focal 6-hydroxydopamine lesions in the nucleus accumbens. Brain Research, 1996, 736, 270-279.	2.2	12
96	Ventral mesopontine projections of the caudomedial shell of the nucleus accumbens and extended amygdala in the rat: double dissociation by organization and development. Journal of Comparative Neurology, 2001, 436, 111-25.	1.6	11
97	Evidence for a morphologically distinct subpopulation of striatipetal axons following injections of WGA-HRP into the ventral tegmental area in the rat. Brain Research, 1989, 482, 145-154.	2.2	10
98	Gap junctions between sensory and supporting cells of the utricular and saccular maculae inAnolis carolinensis examined by transmission electron microscopy. American Journal of Anatomy, 1980, 158, 263-273.	1.0	9
99	Dissociable effects of dopamine D1 and D2 receptors on compulsive ingestion and pivoting movements elicited by disinhibiting the ventral pallidum. Brain Structure and Function, 2019, 224, 1925-1932.	2.3	9
100	Temporal dissociation of neurotensin/neuromedin N mRNA expression in topographically separate subsets of rat striatal neurons following administration of haloperidol. Molecular Brain Research, 1996, 42, 71-78.	2.3	7
101	Catecholamine-Derived Aldehyde Neurotoxins. , 2000, , 167-180.		6
102	Desensitization and enhancement of neurotensin/neuromedin N mRNA responses in subsets of rat caudate-putamen neurons following multiple administrations of haloperidol. Molecular Brain Research, 1998, 59, 196-204.	2.3	4
103	Vulnerabilities of ventral mesencephalic neurons projecting to the nucleus accumbens following infusions of 6-hydroxydopamine into the medial forebrain bundle in the rat. Brain Research, 2004, 997, 119-127.	2.2	3
104	Increased opioid receptor binding and G protein coupling in the accumbens and ventral tegmental area of postnatal day 2 rats. Neuroscience Letters, 2006, 395, 244-248.	2.1	3
105	Pharmacotherapeutic approach to the treatment of addiction: persistent challenges. Missouri Medicine, 2010, 107, 276-80.	0.3	3
106	Reduction of miniature end-plate potential amplitude in extraocular and limb muscles in an animal model of myasthenia gravis. Experimental Neurology, 1983, 80, 258-262.	4.1	2
107	A novel giant non-cholinergic striatal interneuron restricted to the ventrolateral striatum coexpresses Kv3.3 potassium channel, parvalbumin, and the vesicular GABA transporter. Molecular Psychiatry, 2020, , .	7.9	1
108	Absence Epilepsy. , 2008, , 2-2.		0

#	Article	IF	Citations
109	The novel giant striatal neurons are not cholinergic. Molecular Psychiatry, 2022, 27, 1857-1857.	7.9	0