James M Tepper

List of Publications by Year
in descending order

90 papers	7,931 citations	50276 46 h-index	56724 83 g-index
91 all docs	91 docs citations	91 times ranked	5552 citing authors

#	Article	IF	Citations
1	Inhibitory control of neostriatal projection neurons by GABAergic interneurons. Nature Neuroscience, 1999, 2, 467-472.	14.8	765
2	Functional diversity and specificity of neostriatal interneurons. Current Opinion in Neurobiology, 2004, 14, 685-692.	4.2	439
3	GABAergic microcircuits in the neostriatum. Trends in Neurosciences, 2004, 27, 662-669.	8.6	384
4	Heterogeneity and Diversity of Striatal GABAergic Interneurons. Frontiers in Neuroanatomy, 2010, 4, 150.	1.7	351
5	GABAA receptor-mediated inhibition of rat substantia nigra dopaminergic neurons by pars reticulata projection neurons. Journal of Neuroscience, 1995, 15, 3092-3103.	3.6	324
6	Glutamatergic Signaling by Mesolimbic Dopamine Neurons in the Nucleus Accumbens. Journal of Neuroscience, 2010, 30, 7105-7110.	3.6	280
7	Dual Cholinergic Control of Fast-Spiking Interneurons in the Neostriatum. Journal of Neuroscience, 2002, 22, 529-535.	3.6	277
8	GABAergic circuits mediate the reinforcement-related signals of striatal cholinergic interneurons. Nature Neuroscience, 2012, 15, 123-130.	14.8	258
9	Comparison of IPSCs Evoked by Spiny and Fast-Spiking Neurons in the Neostriatum. Journal of Neuroscience, 2004, 24, 7916-7922.	3.6	250
10	GABAergic control of substantia nigra dopaminergic neurons. Progress in Brain Research, 2007, 160, 189-208.	1.4	191
11	Feedforward and feedback inhibition in neostriatal GABAergic spiny neurons. Brain Research Reviews, 2008, 58, 272-281.	9.0	181
12	Postnatal Development of the Rat Neostriatum: Electrophysiological, Light- and Electron-Microscopic Studies. Developmental Neuroscience, 1998, 20, 125-145.	2.0	163
13	Basal ganglia macrocircuits. Progress in Brain Research, 2007, 160, 3-7.	1.4	159
14	Heterogeneity and Diversity of Striatal GABAergic Interneurons: Update 2018. Frontiers in Neuroanatomy, 2018, 12, 91.	1.7	145
15	Endogenous Hydrogen Peroxide Regulates the Excitability of Midbrain Dopamine Neurons via ATP-Sensitive Potassium Channels. Journal of Neuroscience, 2005, 25, 4222-4231.	3.6	143
16	GABAA and GABAB antagonists differentially affect the firing pattern of substantia nigra dopaminergic neurons in vivo. , 1999, 32, 165-176.		132
17	Striatal, pallidal, and pars reticulata evoked inhibition of nigrostriatal dopaminergic neurons is mediated by GABAA receptors in vivo. Neuroscience, 1999, 89, 799-812.	2.3	126
18	A Novel Functionally Distinct Subtype of Striatal Neuropeptide Y Interneuron. Journal of Neuroscience, 2011, 31, 16757-16769.	3.6	124

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19	Functional Roles of Dopamine D₂and D₃Autoreceptors on Nigrostriatal Neurons Analyzed by Antisense Knockdown<i>In Vivo</i>. Journal of Neuroscience, 1997, 17, 2519-2530.	3.6	123
20	Segregated cholinergic transmission modulates dopamine neurons integrated in distinct functional circuits. Nature Neuroscience, 2016, 19, 1025-1033.	14.8	122
21	The shell region of the nucleus ovoidalis: A subdivision of the avian auditory thalamus. Journal of Comparative Neurology, 1992, 323, 495-518.	1.6	120
22	Electrophysiological and Morphological Characteristics and Synaptic Connectivity of Tyrosine Hydroxylase-Expressing Neurons in Adult Mouse Striatum. Journal of Neuroscience, 2010, 30, 6999-7016.	3.6	120
23	Gabaergic control of rat substantia nigra dopaminergic neurons: role of globus pallidus and substantia nigra pars reticulata. Neuroscience, 1999, 89, 813-825.	2.3	119
24	Axonal and dendritic arborization of an intracellularly labeled chandelier cell in the CA1 region of rat hippocampus. Experimental Brain Research, 1992, 90, 519-25.	1.5	116
25	Cell Type-Specific Differences in Chloride-Regulatory Mechanisms and GABA_AReceptor-Mediated Inhibition in Rat Substantia Nigra. Journal of Neuroscience, 2003, 23, 8237-8246.	3.6	114
26	Subthalamic Stimulation-Induced Synaptic Responses in Substantia Nigra Pars Compacta Dopaminergic Neurons In Vitro. Journal of Neurophysiology, 1999, 82, 925-933.	1.8	106
27	Electrophysiological characteristics of cells within mesencephalon suspension grafts. Neuroscience, 1991, 40, 109-122.	2.3	104
28	Are Striatal Tyrosine Hydroxylase Interneurons Dopaminergic?. Journal of Neuroscience, 2015, 35, 6584-6599.	3.6	85
29	Postnatal development of the electrical activity of rat nigrostriatal dopaminergic neurons. Developmental Brain Research, 1990, 54, 21-33.	1.7	75
30	Local infusion of brain-derived neurotrophic factor modifies the firing pattern of dorsal raphÃ© serotonergic neurons. Brain Research, 1996, 712, 293-298.	2.2	73
31	Differential Dopaminergic Modulation of Neostriatal Synaptic Connections of Striatopallidal Axon Collaterals. Journal of Neuroscience, 2009, 29, 8977-8990.	3.6	73
32	Differential processing of thalamic information via distinct striatal interneuron circuits. Nature Communications, 2017, 8, 15860.	12.8	72
33	Postnatal changes in the distribution and morphology of rat substantia nigra dopaminergic neurons. Neuroscience, 1994, 60, 469-477.	2.3	68
34	GABAergic Afferents Activate Both GABA_Aand GABA_BReceptors in Mouse Substantia Nigra Dopaminergic Neurons<i>In Vivo</i>. Journal of Neuroscience, 2008, 28, 10386-10398.	3.6	67
35	Excitatory extrinsic afferents to striatal interneurons and interactions with striatal microcircuitry. European Journal of Neuroscience, 2019, 49, 593-603.	2.6	67
36	Neostriatal GABAergic Interneurons Mediate Cholinergic Inhibition of Spiny Projection Neurons. Journal of Neuroscience, 2016, 36, 9505-9511.	3.6	65

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37	Postnatal development of excitatory synaptic input to the rat neostriatum: An electron microscopic study. Neuroscience, 1998, 84, 1163-1175.	2.3	63
38	Autoreceptor-mediated changes in dopaminergic terminal excitability: Effects of striatal drug infusions. Brain Research, 1984, 309, 309-316.	2.2	62
39	GABAA receptor stimulation blocks NMDA-induced bursting of dopaminergic neurons in vitro by decreasing input resistance. Brain Research, 1999, 832, 145-151.	2.2	62
40	Neurophysiological consequences of presynaptic receptor activation: changes in noradrenergic terminal excitability. Brain Research, 1981, 226, 155-170.	2.2	60
41	Chapter 3 In vivo studies of the postnatal development of rat neostriatal neurons. Progress in Brain Research, 1993, 99, 35-50.	1.4	60
42	Dorsal raphï¿½ stimulation modifies striatal-evoked antidromic invasion of nigral dopaminergic neurons in vivo. Experimental Brain Research, 1991, 84, 620-30.	1.5	58
43	Novel fast adapting interneurons mediate cholinergicâ€induced fast <scp>GABA_A</scp> inhibitory postsynaptic currents in striatal spiny neurons. European Journal of Neuroscience, 2015, 42, 1764-1774.	2.6	57
44	Antidromic activation of dorsal raphe neurons from neostriatum: Physiological characterization and effects of terminal autoreceptor activation. Brain Research, 1985, 332, 15-28.	2.2	56
45	Morphological and physiological properties of parvalbumin- and calretinin-containing Î^3-aminobutyric acidergic neurons in the substantia nigra. Journal of Comparative Neurology, 2007, 500, 958-972.	1.6	54
46	A Calcium-Activated Nonselective Cation Conductance Underlies the Plateau Potential in Rat Substantia Nigra GABAergic Neurons. Journal of Neuroscience, 2007, 27, 6531-6541.	3.6	53
47	Changes in dopaminergic terminal excitability induced by amphetamine and haloperidol. Brain Research, 1981, 221, 425-431.	2.2	49
48	Noradrenergic terminal excitability: Effects of opioids. Neuroscience Letters, 1982, 30, 57-62.	2.1	43
49	Analysis of dynamin isoforms in mammalian brain: dynamin-1 expression is spatially and temporally regulated during postnatal development.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 8376-8380.	7.1	43
50	Morphological characterization of electrophysiologically and immunohistochemically identified basal forebrain cholinergic and neuropeptide Y-containing neurons. Brain Structure and Function, 2007, 212, 55-73.	2.3	42
51	Autoreceptor-mediated changes in dopaminergic terminal excitability: Effects of increases in impulse flow. Brain Research, 1984, 309, 299-307.	2.2	41
52	Cerebellar-responsive neurons in the thalamic ventroanterior-ventrolateral complex of rats: In vivo electrophysiology. Neuroscience, 1994, 63, 711-724.	2.3	40
53	Pallidal control of substantia nigra dopaminergic neuron firing pattern and its relation to extracellular neostriatal dopamine levels. Neuroscience, 2004, 129, 481-489.	2.3	40
54	Pedunculopontine Glutamatergic Neurons Provide a Novel Source of Feedforward Inhibition in the Striatum by Selectively Targeting Interneurons. Journal of Neuroscience, 2019, 39, 4727-4737.	3.6	39

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55	Stimulus-evoked changes in neostriatal dopamine levels in awake and anesthetized rats as measured by microdialysis. Brain Research, 1991, 559, 283-292.	2.2	38
56	Cerebellar-responsive neurons in the thalamic ventroanterior-ventrolateral complex of rats: Light and electron microscopy. Neuroscience, 1994, 63, 725-745.	2.3	38
57	Morphological and electrophysiological characteristics of noncholinergic basal forebrain neurons. , 1998, 394, 186-204.		37
58	Do silent dopaminergic neurons exist in rat substantia nigra in vivo?. Neuroscience, 1998, 85, 1089-1099.	2.3	37
59	Mesocortical dopaminergic neurons. 1. Electrophysiological properties and evidence for soma-dendritic autoreceptors. Brain Research Bulletin, 1989, 22, 511-516.	3.0	35
60	Basal Ganglia Control of Substantia Nigra Dopaminergic Neurons. , 2009, , 71-90.		30
61	Dopaminergic and cholinergic modulation of striatal tyrosine hydroxylase interneurons. Neuropharmacology, 2015, 95, 468-476.	4.1	30
62	Anatomical and electrophysiological changes in striatal TH interneurons after loss of the nigrostriatal dopaminergic pathway. Brain Structure and Function, 2015, 220, 331-349.	2.3	29
63	The neuropharmacology of the autoinhibition of monoamine release. Trends in Pharmacological Sciences, 1985, 6, 251-256.	8.7	28
64	Distribution of Tyrosine Hydroxylase-Expressing Interneurons with Respect to Anatomical Organization of the Neostriatum. Frontiers in Systems Neuroscience, 2011, 5, 41.	2.5	24
65	Identification and Characterization of a Novel Spontaneously Active Bursty GABAergic Interneuron in the Mouse Striatum. Journal of Neuroscience, 2018, 38, 5688-5699.	3.6	24
66	Neuropilin 2 Signaling Mediates Corticostriatal Transmission, Spine Maintenance, and Goal-Directed Learning in Mice. Journal of Neuroscience, 2019, 39, 8845-8859.	3.6	24
67	Changes in noradrenergic terminal excitability induced by amphetamine and their relation to impulse traffic. Neuroscience, 1982, 7, 2217-2224.	2.3	23
68	Glutamatergic signaling by midbrain dopaminergic neurons: recent insights from optogenetic, molecular and behavioral studies. Current Opinion in Neurobiology, 2011, 21, 393-401.	4.2	22
69	Relations between nicotine-induced convulsive behavior and blood and brain levels of nicotine as a function of sex and age in two inbred strains of mice. Pharmacology Biochemistry and Behavior, 1979, 10, 349-353.	2.9	20
70	Acoustic priming and kanamycin-induced cochlear damage. Brain Research, 1980, 187, 81-95.	2.2	19
71	Amphetamine's effects on terminal excitability of noradrenergic locus coeruleus neurons are impulse-dependent at low but not high doses. Brain Research, 1985, 341, 155-163.	2.2	19
72	Autoreceptor activation in central monoamine neurons: Modulation of neurotransmitter release is not mediated by intermittent axonal conduction. Neuroscience, 1985, 15, 925-931.	2.3	18

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73	Mesocortical dopaminergic neurons. 2. Electrophysiological consequences of terminal autoreceptor activation. Brain Research Bulletin, 1989, 22, 517-523.	3.0	18
74	Amphetamine exerts anomalous effects on dopaminergic neurons in neonatal rats in vivo. European Journal of Pharmacology, 1991, 204, 265-272.	3.5	18
75	Opposing Influence of Sensory and Motor Cortical Input on Striatal Circuitry and Choice Behavior. Current Biology, 2019, 29, 1313-1323.e5.	3.9	18
76	Frontal cortex stimulation evoked neostriatal potentials in rats: Intracellular and extracellular analysis. Brain Research Bulletin, 1986, 17, 751-758.	3.0	16
77	Autoreceptor-mediated changes in dopaminergic terminal excitability: Effects of potassium channel blockers. Brain Research, 1986, 367, 230-237.	2.2	12
78	Cortical and thalamic inputs exert cell typeâ€specific feedforward inhibition on striatal GABAergic interneurons. Journal of Neuroscience Research, 2019, 97, 1491-1502.	2.9	10
79	Loss of striatal tyrosineâ€hydroxylase interneurons impairs instrumental goalâ€directed behavior. European Journal of Neuroscience, 2019, 50, 2653-2662.	2.6	10
80	Selective breeding for acoustic priming. Behavior Genetics, 1976, 6, 375-383.	2.1	7
81	In Vivo Electrophysiology of Central Nervous System Terminal Autoreceptors. Annals of the New York Academy of Sciences, 1990, 604, 470-487.	3.8	7
82	GABAergic Interneurons of the Striatum. Handbook of Behavioral Neuroscience, 2010, , 151-166.	0.7	7
83	Seizure proneness and neurotransmitter uptake. Neurochemical Research, 1979, 4, 755-761.	3.3	6
84	Neurophysiology of Substantia Nigra Dopamine Neurons. Handbook of Behavioral Neuroscience, 2010, , 275-296.	0.7	1
85	Introduction to Basal Ganglia X â€" Proceedings of the 10th Triennial Meeting of the International Basal Ganglia Society. Frontiers in Systems Neuroscience, 2012, 6, 29.	2.5	1
86	Afferent Control of Nigral Dopaminergic Neurons. Advances in Behavioral Biology, 2002, , 641-651.	0.2	1
87	Electrophysiological Consequences of D2 and/or D3 Receptor Knockout by Antisense Oligonucleotides in Nigrostriatal Dopaminergic Neurons. Advances in Behavioral Biology, 1996, , 141-149.	0.2	0
88	Opposing Influence of Sensory and Motor Cortex on Striatal Circuitry and Choice Behavior. SSRN Electronic Journal, 0, , .	0.4	0
89	Feedforward and Feedback Inhibition in the Neostriatum. , 2005, , 457-466.		0
90	Neuropilin 2/Plexin-A3 Receptors Regulate the Functional Connectivity and the Excitability in the Layers 4 and 5 of the Cerebral Cortex. Journal of Neuroscience, 2022, , JN-RM-1965-21.	3.6	0