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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The substantia nigra of the human brain. Brain, 1999, 122, 1437-1448.	7.6	1,481
2	Neurotransmitters and neuromodulators in the basal ganglia. Trends in Neurosciences, 1990, 13, 244-254.	8.6	1,478
3	Habits, Rituals, and the Evaluative Brain. Annual Review of Neuroscience, 2008, 31, 359-387.	10.7	1,431
4	The Basal Ganglia and Adaptive Motor Control. Science, 1994, 265, 1826-1831.	12.6	1,168
5	Amphetamine and cocaine induce drug-specific activation of the c-fos gene in striosome-matrix compartments and limbic subdivisions of the striatum Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6912-6916.	7.1	849
6	Building Neural Representations of Habits. Science, 1999, 286, 1745-1749.	12.6	808
7	Histochemically distinct compartments in the striatum of human, monkeys, and cat demonstrated by acetylthiocholinesterase staining Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 5723-5726.	7.1	742
8	Activity of striatal neurons reflects dynamic encoding and recoding of procedural memories. Nature, 2005, 437, 1158-1161.	27.8	578
9	Prolonged dopamine signalling in striatum signals proximity and value of distant rewards. Nature, 2013, 500, 575-579.	27.8	444
10	A measure of striatal function predicts motor stereotypy. Nature Neuroscience, 2000, 3, 377-383.	14.8	389
11	Highly restricted origin of prefrontal cortical inputs to striosomes in the macaque monkey. Journal of Neuroscience, 1995, 15, 5999-6013.	3.6	369
12	Basal Ganglia Disorders Associated with Imbalances in the Striatal Striosome and Matrix Compartments. Frontiers in Neuroanatomy, 2011, 5, 59.	1.7	354
13	Differential Dynamics of Activity Changes in Dorsolateral and Dorsomedial Striatal Loops during Learning. Neuron, 2010, 66, 781-795.	8.1	336
14	A Rap guanine nucleotide exchange factor enriched highly in the basal ganglia. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13278-13283.	7.1	323
15	Distributed but convergent ordering of corticostriatal projections: analysis of the frontal eye field and the supplementary eye field in the macaque monkey. Journal of Neuroscience, 1992, 12, 4468-4488.	3.6	313
16	Bursts of beta oscillation differentiate postperformance activity in the striatum and motor cortex of monkeys performing movement tasks. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13687-13692.	7.1	313
17	Input-output organization of the sensorimotor striatum in the squirrel monkey. Journal of Neuroscience, 1994, 14, 599-610.	3.6	301
18	Correspondence between the Dopamine islands and striosomes of the mammalian striatum. Neuroscience, 1984, 13, 1157-1187.	2.3	265

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19	Network-Level Changes in Expression of Inducible Fos–Jun Proteins in the Striatum during Chronic Cocaine Treatment and Withdrawal. Neuron, 1996, 17, 147-156.	8.1	256
20	A Dual Operator View of Habitual Behavior Reflecting Cortical and Striatal Dynamics. Neuron, 2013, 79, 361-374.	8.1	244
21	A Corticostriatal Path Targeting Striosomes Controls Decision-Making under Conflict. Cell, 2015, 161, 1320-1333.	28.9	244
22	Neurochemical architecture of the human striatum. Journal of Comparative Neurology, 1997, 384, 1-25.	1.6	217
23	Localized microstimulation of primate pregenual cingulate cortex induces negative decision-making. Nature Neuroscience, 2012, 15, 776-785.	14.8	216
24	Fibers from the basolateral nucleus of the amygdala selectively innervate striosomes in the caudate nucleus of the cat. Journal of Comparative Neurology, 1988, 269, 506-522.	1.6	161
25	Compartmental origins of striatal efferent projections in the cat. Neuroscience, 1989, 32, 297-321.	2.3	148
26	Striosomes and mood dysfunction in Huntington's disease. Brain, 2007, 130, 206-221.	7.6	136
27	Distinct nigrostriatal projection systems innervate striosomes and matrix in the primate striatum. Brain Research, 1989, 498, 344-350.	2.2	130
28	Repetitive Behaviors in Monkeys Are Linked to Specific Striatal Activation Patterns. Journal of Neuroscience, 2004, 24, 7557-7565.	3.6	128
29	Characterization of Mechanically Matched Hydrogel Coatings to Improve the Biocompatibility of Neural Implants. Scientific Reports, 2017, 7, 1952.	3.3	126
30	Chronic Stress Alters Striosome-Circuit Dynamics, Leading to Aberrant Decision-Making. Cell, 2017, 171, 1191-1205.e28.	28.9	116
31	Striosome–dendron bouquets highlight a unique striatonigral circuit targeting dopamine-containing neurons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11318-11323.	7.1	112
32	Cellular substrate of the histochemically defined striosome/matrix system of the caudate nucleus: A combined golgi and immunocytochemical study in cat and ferret. Neuroscience, 1988, 24, 853-875.	2.3	111
33	Habit formation. Dialogues in Clinical Neuroscience, 2016, 18, 33-43.	3.7	111
34	Differential involvement of striosome and matrix dopamine systems in a transgenic model of dopa-responsive dystonia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12551-12556.	7.1	98
35	Concurrent Activation of Dopamine D1and D2Receptors Is Required to Evoke Neural and Behavioral Phenotypes of Cocaine Sensitization. Journal of Neuroscience, 2002, 22, 6218-6227.	3.6	96
36	A simple ordering of neocortical areas established by the compartmental organization of their striatal projections Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6196-6199.	7.1	94

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37	Chemospecificity of ontogenetic units in the striatum: demonstration by combining [3H]thymidine neuronography and histochemical staining Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 198-202.	7.1	90
38	Co-expression of neuropeptides in the cat's striatum: an immunohistochemical study of substance P, dynorphin B and enkephalin. Neuroscience, 1990, 39, 33-58.	2.3	89
39	Two-photon imaging in mice shows striosomes and matrix have overlapping but differential reinforcement-related responses. ELife, 2017, 6, .	6.0	86
40	Long-term dopamine neurochemical monitoring in primates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13260-13265.	7.1	80
41	Modular organization of projection neurons in the matrix compartment of the primate striatum. Journal of Neuroscience, 1991, 11, 779-791.	3.6	71
42	Miniaturized neural system for chronic, local intracerebral drug delivery. Science Translational Medicine, 2018, 10, .	12.4	71
43	The Activity-Regulated Cytoskeletal-Associated Protein Arc Is Expressed in Different Striosome-Matrix Patterns Following Exposure to Amphetamine and Cocaine. Journal of Neurochemistry, 2008, 74, 2074-2078.	3.9	66
44	Shifting Responsibly: The Importance of Striatal Modularity to Reinforcement Learning in Uncertain Environments. Frontiers in Human Neuroscience, 2011, 5, 47.	2.0	64
45	Dysregulation of CalDAG-GEFI and CalDAG-GEFII predicts the severity of motor side-effects induced by anti-parkinsonian therapy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2892-2896.	7.1	60
46	Stable Encoding of Task Structure Coexists With Flexible Coding of Task Events in Sensorimotor Striatum. Journal of Neurophysiology, 2009, 102, 2142-2160.	1.8	60
47	Radial Clial Lineage Progression and Differential Intermediate Progenitor Amplification Underlie Striatal Compartments and Circuit Organization. Neuron, 2018, 99, 345-361.e4.	8.1	55
48	Striatal Microstimulation Induces Persistent and Repetitive Negative Decision-Making Predicted by Striatal Beta-Band Oscillation. Neuron, 2018, 99, 829-841.e6.	8.1	54
49	Cellular-scale probes enable stable chronic subsecond monitoring of dopamine neurochemicals in a rodent model. Communications Biology, 2018, 1, 144.	4.4	52
50	Subcellular probes for neurochemical recording from multiple brain sites. Lab on A Chip, 2017, 17, 1104-1115.	6.0	51
51	Severe drug-induced repetitive behaviors and striatal overexpression of VAChT in ChAT-ChR2-EYFP BAC transgenic mice. Frontiers in Neural Circuits, 2014, 8, 57.	2.8	48
52	Dendritic domains of medium spiny neurons in the primate striatum: Relationships to striosomal borders. Journal of Comparative Neurology, 1993, 337, 614-628.	1.6	44
53	Motivation and Affective Judgments Differentially Recruit Neurons in the Primate Dorsolateral Prefrontal and Anterior Cingulate Cortex. Journal of Neuroscience, 2015, 35, 1939-1953.	3.6	42
54	Habit formation coincides with shifts in reinforcement representations in the sensorimotor striatum. Journal of Neurophysiology, 2016, 115, 1487-1498.	1.8	42

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55	Habit Learning by Naive Macaques Is Marked by Response Sharpening of Striatal Neurons Representing the Cost and Outcome of Acquired Action Sequences. Neuron, 2015, 87, 853-868.	8.1	41
56	A system for recording neural activity chronically and simultaneously from multiple cortical and subcortical regions in nonhuman primates. Journal of Neurophysiology, 2012, 107, 1979-1995.	1.8	36
57	Predominant Striatal Input to the Lateral Habenula in Macaques Comes from Striosomes. Current Biology, 2019, 29, 51-61.e5.	3.9	29
58	Advance cueing produces enhanced action-boundary patterns of spike activity in the sensorimotor striatum. Journal of Neurophysiology, 2011, 105, 1861-1878.	1.8	28
59	Striatal Cholinergic Interneurons Modulate Spike-Timing in Striosomes and Matrix by an Amphetamine-Sensitive Mechanism. Frontiers in Neuroanatomy, 2017, 11, 20.	1.7	28
60	Striosomes Mediate Value-Based Learning Vulnerable in Age and a Huntington's Disease Model. Cell, 2020, 183, 918-934.e49.	28.9	27
61	Dynamic ordering of early generated striatal cells destined to form the striosomal compartment of the striatum. Journal of Comparative Neurology, 2015, 523, 943-962.	1.6	23
62	Dopamine and beta-band oscillations differentially link to striatal value and motor control. Science Advances, 2020, 6, .	10.3	23
63	Combinatorial Developmental Controls on Striatonigral Circuits. Cell Reports, 2020, 31, 107778.	6.4	21
64	Learning new sequential stepping patterns requires striatal plasticity during the earliest phase of acquisition. European Journal of Neuroscience, 2017, 45, 901-911.	2.6	20
65	Focal, remote-controlled, chronic chemical modulation of brain microstructures. Proceedings of the United States of America, 2018, 115, 7254-7259.	7.1	18
66	A non-invasive head-holding device for chronic neural recordings in awake behaving monkeys. Journal of Neuroscience Methods, 2015, 240, 154-160.	2.5	17
67	Steerable Microinvasive Probes for Localized Drug Delivery to Deep Tissue. Small, 2019, 15, e1901459.	10.0	17
68	A novel instrumented multipeg running wheel system, Step-Wheel, for monitoring and controlling complex sequential stepping in mice. Journal of Neurophysiology, 2011, 106, 479-487.	1.8	14
69	Microstimulation of primate neocortex targeting striosomes induces negative decisionâ€making. European Journal of Neuroscience, 2020, 51, 731-741.	2.6	13
70	Platform for micro-invasive membrane-free biochemical sampling of brain interstitial fluid. Science Advances, 2020, 6, .	10.3	11
71	Multiplexed action-outcome representation by striatal striosome-matrix compartments detected with a mouse cost-benefit foraging task. Nature Communications, 2022, 13, 1541.	12.8	11
72	Striatal transcriptome changes linked to drugâ€induced repetitive behaviors. European Journal of Neuroscience, 2021, 53, 2450-2468.	2.6	9

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73	CalDAC-GEFI mediates striatal cholinergic modulation of dendritic excitability, synaptic plasticity and psychomotor behaviors. Neurobiology of Disease, 2021, 158, 105473.	4.4	8
74	Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. Cell Reports, 2020, 31, 107734.	6.4	5
75	Causal Evidence for Induction of Pessimistic Decision-Making in Primates by the Network of Frontal Cortex and Striosomes. Frontiers in Neuroscience, 2021, 15, 649167.	2.8	5
76	Effects of acute and repeated administration of the selective M ₄ PAM VU0152099 on cocaine versus food choice in male rats. Addiction Biology, 2022, 27, e13145.	2.6	5
77	Cannabinoid Receptor 1 Is Required for Neurodevelopment of Striosome-Dendron Bouquets. ENeuro, 2022, 9, ENEURO.0318-21.2022.	1.9	4
78	Templates for Neural Dynamics in the Striatum: Striosomes and Matrisomes. , 2010, , 120-126.		3
79	Simultaneous recording and marking of brain microstructures. Journal of Neural Engineering, 2020, 17, 044001.	3.5	1