Martin Sarter

List of Publications by Year
in descending order

176 papers	14,445 citations	20815 60 h-index	21539 114 g-index
184 all docs	184 docs citations	184 times ranked	9203 citing authors

#	Article	IF	Citations
1	The cognitive neuroscience of sustained attention: where top-down meets bottom-up. Brain Research Reviews, 2001, 35, 146-160.	9.0	935
2	Cognitive functions of cortical acetylcholine: toward a unifying hypothesis. Brain Research Reviews, 1997, 23, 28-46.	9.0	665
3	Unraveling the attentional functions of cortical cholinergic inputs: interactions between signal-driven and cognitive modulation of signal detection. Brain Research Reviews, 2005, 48, 98-111.	9.0	625
4	Modes and Models of Forebrain Cholinergic Neuromodulation of Cognition. Neuropsychopharmacology, 2011, 36, 52-73.	5.4	604
5	Prefrontal Acetylcholine Release Controls Cue Detection on Multiple Timescales. Neuron, 2007, 56, 141-154.	8.1	552
6	More attention must be paid: The neurobiology of attentional effort. Brain Research Reviews, 2006, 51, 145-160.	9.0	479
7	Behavioral vigilance following infusions of 192 IgG-saporin into the basal forebrain: Selectivity of the behavioral impairment and relation to cortical AChE-positive fiber density.. Behavioral Neuroscience, 1996, 110, 247-265.	1.2	398
8	Choline transporters, cholinergic transmission and cognition. Nature Reviews Neuroscience, 2005, 6, 48-56.	10.2	349
9	Behavioral vigilance in rats: task validation and effects of age, amphetamine, and benzodiazepine receptor ligands. Psychopharmacology, 1995, 117, 340-357.	3.1	308
10	Phasic acetylcholine release and the volume transmission hypothesis: time to move on. Nature Reviews Neuroscience, 2009, 10, 383-390.	10.2	294
11	Brain imaging and cognitive neuroscience: Toward strong inference in attributing function to structure.. American Psychologist, 1996, 51, 13-21.	4.2	286
12	Attentional functions of cortical cholinergic inputs: What does it mean for learning and memory?. Neurobiology of Learning and Memory, 2003, 80, 245-256.	1.9	246
13	Anxiety and cardiovascular reactivity: the basal forebrain cholinergic link. Behavioural Brain Research, 1998, 94, 225-248.	2.2	228
14	Increases in cortical acetylcholine release during sustained attention performance in rats. Cognitive Brain Research, 2000, 9, 313-325.	3.0	223
15	Sustained Visual Attention Performance-Associated Prefrontal Neuronal Activity: Evidence for Cholinergic Modulation. Journal of Neuroscience, 2000, 20, 4745-4757.	3.6	210
16	Modulators in concert for cognition: Modulator interactions in the prefrontal cortex. Progress in Neurobiology, 2007, 83, 69-91.	5.7	198
17	Cortical acetylcholine and processing capacity: effects of cortical cholinergic deafferentation on crossmodal divided attention in rats. Cognitive Brain Research, 1997, 6, 147-158.	3.0	171
18	Cortical cholinergic signaling controls the detection of cues. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1089-97.	7.1	162

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19	<i>Cholinergic Mediation of Attention</i>. Annals of the New York Academy of Sciences, 2008, 1129, 225-235.	3.8	160
20	Behavioral screening for cognition enhancers: from indiscriminate to valid testing: Part I. Psychopharmacology, 1992, 107, 144-159.	3.1	158
21	Abnormal regulation of corticopetal cholinergic neurons and impaired information processing in neuropsychiatric disorders. Trends in Neurosciences, 1999, 22, 67-74.	8.6	158
22	Ascending visceral regulation of cortical affective information processing. European Journal of Neuroscience, 2003, 18, 2103-2109.	2.6	150
23	Enhancement of Attentional Performance by Selective Stimulation of Î±4Î²2* nAChRs: Underlying Cholinergic Mechanisms. Neuropsychopharmacology, 2010, 35, 1391-1401.	5.4	146
24	Sustained attention performance in rats with intracortical infusions of 192 IgG-saporin-induced cortical cholinergic deafferentation: Effects of Physostigmine and FG 7142.. Behavioral Neuroscience, 1998, 112, 1519-1525.	1.2	138
25	Developmental origins of the age-related decline in cortical cholinergic function and associated cognitive abilities. Neurobiology of Aging, 2004, 25, 1127-1139.	3.1	135
26	Basal Forebrain Afferent Projections Modulating Cortical Acetylcholine, Attention, and Implications for Neuropsychiatric Disorders. Annals of the New York Academy of Sciences, 1999, 877, 368-382.	3.8	134
27	Cortical Cholinergic Transmission and Cortical Information Processing in Schizophrenia. Schizophrenia Bulletin, 2005, 31, 117-138.	4.3	134
28	Glutamatergic Contributions to Nicotinic Acetylcholine Receptor Agonist-Evoked Cholinergic Transients in the Prefrontal Cortex. Journal of Neuroscience, 2008, 28, 3769-3780.	3.6	134
29	Cholinergic Control over Attention in Rats Prone to Attribute Incentive Salience to Reward Cues. Journal of Neuroscience, 2013, 33, 8321-8335.	3.6	129
30	Augmented Prefrontal Acetylcholine Release during Challenged Attentional Performance. Cerebral Cortex, 2006, 16, 9-17.	2.9	127
31	Prefrontal Î²2 Subunit-Containing and Î±7 Nicotinic Acetylcholine Receptors Differentially Control Glutamatergic and Cholinergic Signaling. Journal of Neuroscience, 2010, 30, 3518-3530.	3.6	124
32	Enhanced Control of Attention by Stimulating Mesolimbic-Corticopetal Cholinergic Circuitry. Journal of Neuroscience, 2011, 31, 9760-9771.	3.6	123
33	Prefrontal Cholinergic Mechanisms Instigating Shifts from Monitoring for Cues to Cue-Guided Performance: Converging Electrochemical and fMRI Evidence from Rats and Humans. Journal of Neuroscience, 2013, 33, 8742-8752.	3.6	121
34	Acetylcholine Release in Prefrontal Cortex Promotes Gamma Oscillations and Thetaâ€“Gamma Coupling during Cue Detection. Journal of Neuroscience, 2017, 37, 3215-3230.	3.6	114
35	Rapid assessment of in vivo cholinergic transmission by amperometric detection of changes in extracellular choline levels. European Journal of Neuroscience, 2004, 20, 1545-1554.	2.6	113
36	nAChR agonist-induced cognition enhancement: Integration of cognitive and neuronal mechanisms. Biochemical Pharmacology, 2009, 78, 658-667.	4.4	110

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37	Collateral innervation of the medial and lateral prefrontal cortex by amygdaloid, thalamic, and brain-stem neurons. Journal of Comparative Neurology, 1984, 224, 445-460.	1.6	107
38	Behavioral screening for cognition enhancers: from indiscriminate to valid testing: Part II. Psychopharmacology, 1992, 107, 461-473.	3.1	107
39	The neglected constituent of the basal forebrain corticopetal projection system: GABAergic projections. European Journal of Neuroscience, 2002, 15, 1867-1873.	2.6	105
40	Taking stock of cognition enhancers. Trends in Pharmacological Sciences, 1991, 12, 456-461.	8.7	103
41	Rats and humans paying attention: Cross-species task development for translational research.. Neuropsychology, 2008, 22, 787-799.	1.3	101
42	Neuronal mechanisms of the attentional dysfunctions in senile dementia and schizophrenia: two sides of the same coin?. Psychopharmacology, 1994, 114, 539-550.	3.1	98
43	Deterministic functions of cortical acetylcholine. European Journal of Neuroscience, 2014, 39, 1912-1920.	2.6	96
44	Effects of acute and repeated systemic administration of ketamine on prefrontal acetylcholine release and sustained attention performance in rats. Psychopharmacology, 2002, 161, 168-179.	3.1	94
45	Challenges to attention: A continuous arterial spin labeling (ASL) study of the effects of distraction on sustained attention. NeuroImage, 2011, 54, 1518-1529.	4.2	94
46	Where attention falls: Increased risk of falls from the converging impact of cortical cholinergic and midbrain dopamine loss on striatal function. Experimental Neurology, 2014, 257, 120-129.	4.1	90
47	Deficits in attentional control: Cholinergic mechanisms and circuitry-based treatment approaches.. Behavioral Neuroscience, 2011, 125, 825-835.	1.2	85
48	CNTRICS Final Task Selection: Control of Attention. Schizophrenia Bulletin, 2009, 35, 182-196.	4.3	84
49	The effects of manipulations of attentional demand on cortical acetylcholine release. Cognitive Brain Research, 2001, 12, 353-370.	3.0	83
50	Cortical cholinergic deafferentation following the intracortical infusion of 192 IgG-saporin: a quantitative histochemical study. Brain Research, 1994, 663, 277-286.	2.2	81
51	Bidirectional modulation of cortical acetylcholine efflux by infusion of benzodiazepine receptor ligands into the basal forebrain. Neuroscience Letters, 1995, 189, 31-34.	2.1	80
52	Forebrain Cholinergic Signaling: Wired and Phasic, Not Tonic, and Causing Behavior. Journal of Neuroscience, 2020, 40, 712-719.	3.6	74
53	Cholinergic contributions to the cognitive symptoms of schizophrenia and the viability of cholinergic treatments. Neuropharmacology, 2012, 62, 1544-1553.	4.1	72
54	Bidirectional interactions between circadian entrainment and cognitive performance. Learning and Memory, 2012, 19, 126-141.	1.3	70

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55	Stimulation of cortical acetylcholine efflux by FG 7142 measured with repeated microdialysis sampling. Synapse, 1995, 21, 324-331.	1.2	69
56	Individual variation in the propensity to attribute incentive salience to a food cue: Influence of sex. Behavioural Brain Research, 2015, 278, 462-469.	2.2	69
57	Abnormal Neurotransmitter Release Underlying Behavioral and Cognitive Disorders: Toward Concepts of Dynamic and Function-Specific Dysregulation. Neuropsychopharmacology, 2007, 32, 1452-1461.	5.4	68
58	The paraventricular thalamus is a critical mediator of top-down control of cue-motivated behavior in rats. ELife, 2019, 8, .	6.0	68
59	Crossmodal divided attention in rats: effects of chlordiazepoxide and scopolamine. Psychopharmacology, 1994, 115, 213-220.	3.1	67
60	Bidirectional modulation of stimulated cortical acetylcholine release by benzodiazepine receptor ligands. Brain Research, 1993, 627, 267-274.	2.2	66
61	Animal cognition: defining the issues. Neuroscience and Biobehavioral Reviews, 2004, 28, 645-650.	6.1	66
62	Disposed to Distraction: Genetic Variation in the Cholinergic System Influences Distractibility But Not Time-on-Task Effects. Journal of Cognitive Neuroscience, 2014, 26, 1981-1991.	2.3	65
63	Modeling Fall Propensity in Parkinson's Disease: Deficits in the Attentional Control of Complex Movements in Rats with Cortical-Cholinergic and Striatalâ€"Dopaminergic Deafferentation. Journal of Neuroscience, 2013, 33, 16522-16539.	3.6	63
64	Operant performance and cortical acetylcholine release: role of response rate, reward density, and non-contingent stimuli. Cognitive Brain Research, 1997, 6, 23-36.	3.0	61
65	Basal forebrain glutamatergic modulation of cortical acetylcholine release. Synapse, 2001, 39, 201-212.	1.2	61
66	Diverse Roads to Relapse: A Discriminative Cue Signaling Cocaine Availability Is More Effective in Renewing Cocaine Seeking in Goal Trackers Than Sign Trackers and Depends on Basal Forebrain Cholinergic Activity. Journal of Neuroscience, 2017, 37, 7198-7208.	3.6	61
67	Increased Capacity and Density of Choline Transporters Situated in Synaptic Membranes of the Right Medial Prefrontal Cortex of Attentional Task-Performing Rats. Journal of Neuroscience, 2005, 25, 3851-3856.	3.6	60
68	The Presynaptic Choline Transporter Imposes Limits on Sustained Cortical Acetylcholine Release and Attention. Journal of Neuroscience, 2013, 33, 2326-2337.	3.6	57
69	Leveraging the cortical cholinergic system to enhance attention. Neuropharmacology, 2013, 64, 294-304.	4.1	57
70	What do phasic cholinergic signals do?. Neurobiology of Learning and Memory, 2016, 130, 135-141.	1.9	54
71	The neuroscience of cognitive-motivational styles: Sign- and goal-trackers as animal models.. Behavioral Neuroscience, 2018, 132, 1-12.	1.2	54
72	Effects of ovariectomy, 192 IgG-saporin-induced cortical cholinergic deafferentation, and administration of estradiol on sustained attention performance in rats.. Behavioral Neuroscience, 1999, 113, 1216-1232.	1.2	53

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73	Preclinical research into cognition enhancers. Trends in Pharmacological Sciences, 2006, 27, 602-608.	8.7	53
74	Toward modeling age-related changes of attentional abilities in rats: Simple and choice reaction time tasks and vigilance. Neurobiology of Aging, 1992, 13, 759-772.	3.1	51
75	Modulation of cognitive processes by transsynaptic activation of the basal forebrain. Behavioural Brain Research, 1997, 84, 1-22.	2.2	51
76	Toward a Neuro-Cognitive Animal Model of the Cognitive Symptoms of Schizophrenia: Disruption of Cortical Cholinergic Neurotransmission Following Repeated Amphetamine Exposure in Attentional Task-Performing, but Not Non-Performing, Rats. Neuropsychopharmacology, 2007, 32, 2074-2086.	5.4	50
77	Interactions between aging and cortical cholinergic deafferentation on attentionâ‹†. Neurobiology of Aging, 2002, 23, 467-477.	3.1	47
78	Increased distractor vulnerability but preserved vigilance in patients with schizophrenia: Evidence from a translational Sustained Attention Task. Schizophrenia Research, 2013, 144, 136-141.	2.0	47
79	Psychotogenic properties of benzodiazepine receptor inverse agonists. Psychopharmacology, 2001, 156, 1-13.	3.1	46
80	NMDA and dopamine interactions in the nucleus accumbens modulate cortical acetylcholine release. European Journal of Neuroscience, 2005, 22, 1731-1740.	2.6	46
81	Cholinergic optimization of cueâ€evoked parietal activity during challenged attentional performance. European Journal of Neuroscience, 2009, 29, 1711-1722.	2.6	45
82	Regional vesicular acetylcholine transporter distribution in human brain: A [¹⁸F]fluoroethoxybenzovesamicol positron emission tomography study. Journal of Comparative Neurology, 2018, 526, 2884-2897.	1.6	45
83	Cholinergic double duty: cue detection and attentional control. Current Opinion in Psychology, 2019, 29, 102-107.	4.9	45
84	CNTRICS Final Biomarker Selection: Control of Attention. Schizophrenia Bulletin, 2012, 38, 53-61.	4.3	44
85	A systemically-available kynurenine aminotransferase II (KAT II) inhibitor restores nicotine-evoked glutamatergic activity in the cortex of rats. Neuropharmacology, 2014, 82, 41-48.	4.1	44
86	Cholinergic capacity mediates prefrontal engagement during challenges to attention: evidence from imaging genetics. NeuroImage, 2015, 108, 386-395.	4.2	44
87	Increases in cholinergic neurotransmission measured by using choline-sensitive microelectrodes: Enhanced detection by hydrolysis of acetylcholine on recording sites?. Neurochemistry International, 2008, 52, 1343-1350.	3.8	43
88	Spontaneous exploration of a 6-arm radial tunnel maze by basal forebrain lesioned rats: effects of the benzodiazepine receptor antagonist ?-carboline ZK 93 426. Psychopharmacology, 1989, 98, 193-202.	3.1	42
89	Cholinergic genetics of visual attention: Human and mouse choline transporter capacity variants influence distractibility. Journal of Physiology (Paris), 2016, 110, 10-18.	2.1	42
90	Repeated pretreatment with amphetamine sensitizes increases in cortical acetylcholine release. Psychopharmacology, 2000, 151, 406-415.	3.1	41

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91	Reporting statistical methods and statistical results in EJN. European Journal of Neuroscience, 2008, 28, 2363-2364.	2.6	41
92	Transient Inactivation of the Neonatal Ventral Hippocampus Impairs Attentional Set-Shifting Behavior: Reversal with an Î±7 Nicotinic Agonist. Neuropsychopharmacology, 2012, 37, 2476-2486.	5.4	41
93	Diminished trk<scp>A</scp> receptor signaling reveals cholinergicâ€attentional vulnerability of aging. European Journal of Neuroscience, 2013, 37, 278-293.	2.6	41
94	â€˜Hotâ€™ vs. â€˜coldâ€™ behaviouralâ€cognitive styles: motivationalâ€dopaminergic vs. cognitiveâ€cholinergic processing of a Pavlovian cocaine cue in signâ€•and goalâ€tracking rats. European Journal of Neuroscience, 2017, 46, 2768-2781.	2.6	39
95	Trans-Synaptic Stimulation of Cortical Acetylcholine Release after Partial 192ÂIgG-Saporin-Induced Loss of Cortical Cholinergic Afferents. Journal of Neuroscience, 1996, 16, 6592-6600.	3.6	38
96	Sustained attention in mice: Expanding the translational utility of the SAT by incorporating the Michigan Controlled Access Response Port (MICARP). Behavioural Brain Research, 2011, 225, 574-583.	2.2	38
97	A neurocognitive animal model dissociating between acute illness and remission periods of schizophrenia. Psychopharmacology, 2009, 202, 237-258.	3.1	37
98	Modeling Parkinsonâ€™s disease falls associated with brainstem cholinergic systems decline.. Behavioral Neuroscience, 2015, 129, 96-104.	1.2	37
99	Interactions between cognition and circadian rhythms: Attentional demands modify circadian entrainment.. Behavioral Neuroscience, 2009, 123, 937-948.	1.2	36
100	Cognitive Performance as a Zeitgeber: Cognitive Oscillators and Cholinergic Modulation of the SCN Entrain Circadian Rhythms. PLoS ONE, 2013, 8, e56206.	2.5	35
101	Convergence of intra- and interhemispheric cortical afferents: Lack of collateralization and evidence for a subrhinal cell group projecting heterotopically. Journal of Comparative Neurology, 1985, 236, 283-296.	1.6	34
102	Amphetamine-stimulated cortical acetylcholine release: role of the basal forebrain. Brain Research, 2001, 894, 74-87.	2.2	34
103	Unresponsive Choline Transporter as a Trait Neuromarker and a Causal Mediator of Bottom-Up Attentional Biases. Journal of Neuroscience, 2017, 37, 2947-2959.	3.6	34
104	Thalamic cholinergic innervation makes a specific bottom-up contribution to signal detection: Evidence from Parkinsonâ€™s disease patients with defined cholinergic losses. NeuroImage, 2017, 149, 295-304.	4.2	34
105	Afferents to the ventral tegmental nucleus of gudden in the mouse, rat, and cat. Journal of Comparative Neurology, 1984, 228, 509-541.	1.6	33
106	Behavioural Vigilance in Schizophrenia. British Journal of Psychiatry, 1996, 169, 781-789.	2.8	33
107	Glutamate receptors in nucleus accumbens mediate regionally selective increases in cortical acetylcholine release. Synapse, 2007, 61, 115-123.	1.2	33
108	Modeling falls in Parkinson's disease: Slow gait, freezing episodes and falls in rats with extensive striatal dopamine loss. Behavioural Brain Research, 2015, 282, 155-164.	2.2	33

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109	The cortical cholinergic system contributes to the top-down control of distraction: Evidence from patients with Parkinson's disease. NeuroImage, 2019, 190, 107-117.	4.2	33
110	Animal Models in Biological Psychiatry. , 0, , 37-44.		32
111	Time to Pay Attention: Attentional Performance Time-Stamped Prefrontal Cholinergic Activation, Diurnality, and Performance. Journal of Neuroscience, 2012, 32, 12115-12128.	3.6	32
112	Cortical cholinergic inputs mediate processing capacity: effects of 192 IgG-saporin-induced lesions on olfactory span performance. European Journal of Neuroscience, 2000, 12, 4505-4514.	2.6	32
113	Lateralized Attentional Functions of Cortical Cholinergic Inputs.. Behavioral Neuroscience, 2004, 118, 984-991.	1.2	29
114	Attention and the Cholinergic System: Relevance to Schizophrenia. Current Topics in Behavioral Neurosciences, 2015, 28, 327-362.	1.7	29
115	Interpreting Chemical Neurotransmission in Vivo: Techniques, Time Scales, and Theories. ACS Chemical Neuroscience, 2015, 6, 8-10.	3.5	29
116	Sensitized Attentional Performance and Fos-Immunoreactive Cholinergic Neurons in the Basal Forebrain of Amphetamine-Pretreated Rats. Biological Psychiatry, 2005, 57, 1138-1146.	1.3	28
117	D2-like receptors in nucleus accumbens negatively modulate acetylcholine release in prefrontal cortex. Neuropharmacology, 2007, 53, 455-463.	4.1	27
118	Distinct Frontoparietal Networks Underlying Attentional Effort and Cognitive Control. Journal of Cognitive Neuroscience, 2017, 29, 1212-1225.	2.3	27
119	The ability for cocaine and cocaine-associated cues to compete for attention. Behavioural Brain Research, 2017, 320, 302-315.	2.2	26
120	Detection of the Moderately Beneficial Cognitive Effects of Low-Dose Treatment with Haloperidol or Clozapine in an Animal Model of the Attentional Impairments of Schizophrenia. Neuropsychopharmacology, 2008, 33, 2635-2647.	5.4	25
121	Stimulation of cortical acetylcholine release following blockade of ionotropic glutamate receptors in nucleus accumbens. European Journal of Neuroscience, 2002, 16, 1259-1266.	2.6	24
122	The hot â€˜nâ€™ cold of cue-induced drug relapse. Learning and Memory, 2018, 25, 474-480.	1.3	24
123	Monitoring cholinergic activity during attentional performance in mice heterozygous for the choline transporter: A model of cholinergic capacity limits. Neuropharmacology, 2013, 75, 274-285.	4.1	22
124	Behavioral-cognitive targets for cholinergic enhancement. Current Opinion in Behavioral Sciences, 2015, 4, 22-26.	3.9	22
125	Reducing falls in Parkinson's disease: interactions between donepezil and the 5â€HT₆ receptor antagonist idalopirdine on falls in a rat model of impaired cognitive control of complex movements. European Journal of Neuroscience, 2017, 45, 217-231.	2.6	22
126	Antisense oligodeoxynucleotide-induced suppression of basal forebrain NMDA-NR1 subunits selectively impairs visual attentional performance in rats. European Journal of Neuroscience, 2001, 14, 103-117.	2.6	20

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127	Visceral Afferent Bias on Cortical Processing: Role of Adrenergic Afferents to the Basal Forebrain Cholinergic System.. Behavioral Neuroscience, 2004, 118, 1455-1459.	1.2	18
128	Microsphere embolism-induced cortical cholinergic deafferentation and impairments in attentional performance. European Journal of Neuroscience, 2005, 21, 3117-3132.	2.6	18
129	Disruption of Mesolimbic Regulation of Prefrontal Cholinergic Transmission in an Animal Model of Schizophrenia and Normalization by Chronic Clozapine Treatment. Neuropsychopharmacology, 2009, 34, 2710-2720.	5.4	18
130	Revitalizing psychiatric drug discovery. Nature Reviews Drug Discovery, 2012, 11, 423-424.	46.4	18
131	Selective potentiation of (Î±4)3(Î²2)2 nicotinic acetylcholine receptors augments amplitudes of prefrontal acetylcholine- and nicotine-evoked glutamatergic transients in rats. Biochemical Pharmacology, 2013, 86, 1487-1496.	4.4	18
132	Complex Movement Control in a Rat Model of Parkinsonian Falls: Bidirectional Control by Striatal Cholinergic Interneurons. Journal of Neuroscience, 2020, 40, 6049-6067.	3.6	18
133	Effects of intra-accumbens infusions of amphetamine or cis-flupenthixol on sustained attention performance in rats. Behavioural Brain Research, 2000, 116, 123-133.	2.2	17
134	Targeting the pedunculopontine nucleus in Parkinson's disease: Time to go back to the drawing board. Movement Disorders, 2018, 33, 1871-1875.	3.9	16
135	Rescuing theÂattentional performance ofÂrats withÂcholinergic losses by theÂM1 positive allosteric modulator TAK-071. Psychopharmacology, 2020, 237, 137-153.	3.1	16
136	Intra-accumbens infusions of antisense oligodeoxynucleotides to one isoform of glutamic acid decarboxylase mRNA, GAD65, but not to GAD67 mRNA, impairs sustained attention performance in the rat. Cognitive Brain Research, 1999, 7, 269-283.	3.0	15
137	Transgenic overexpression of the presynaptic choline transporter elevates acetylcholine levels and augments motor endurance. Neurochemistry International, 2014, 73, 217-228.	3.8	15
138	Basal forebrain chemogenetic inhibition disrupts the superior complex movement control of goal-tracking rats.. Behavioral Neuroscience, 2019, 133, 121-134.	1.2	15
139	Phasic cholinergic signaling promotes emergence of local gamma rhythms in excitatoryâ€“inhibitory networks. European Journal of Neuroscience, 2020, 52, 3545-3560.	2.6	14
140	Theta-gamma coupling emerges from spatially heterogeneous cholinergic neuromodulation. PLoS Computational Biology, 2021, 17, e1009235.	3.2	14
141	Forebrain dopaminergic-cholinergic interactions, attentional effort, psychostimulant addiction and schizophrenia. , 2006, 98, 65-86.		13
142	Addiction vulnerability trait impacts complex movement control: Evidence from sign-trackers. Behavioural Brain Research, 2018, 350, 139-148.	2.2	13
143	The cardiovascular startle response: Anxiety and the benzodiazepine receptor complex. Psychophysiology, 1997, 34, 348-357.	2.4	12
144	Addiction vulnerability and the processing of significant cues: Sign-, but not goal-, tracker perceptual sensitivity relies on cue salience.. Behavioral Neuroscience, 2020, 134, 133-143.	1.2	12

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145	Tapping artificially into natural talents. Trends in Neurosciences, 1999, 22, 300-301.	8.6	11
146	Dissociations between the effects of intra-accumbens administration of amphetamine and exposure to a novel environment on accumbens dopamine and cortical acetylcholine release. Brain Research, 2001, 894, 354-358.	2.2	11
147	Make a Left Turn: Corticoâ€Striatal Circuitry Mediating the Attentional Control of Complex Movements. Movement Disorders, 2021, 36, 535-546.	3.9	10
148	Preclinical psychopharmacology of AIDS-associated dementia: lessons to be learned from the cognitive psychopharmacology of other dementias. Journal of Psychopharmacology, 2000, 14, 197-204.	4.0	9
149	Î±4Î²2[*] Nicotinic Cholinergic Receptor Target Engagement in Parkinson Disease <scp>Gaitâ€"Balance</scp> Disorders. Annals of Neurology, 2021, 90, 130-142.	5.3	9
150	Co-treatment with rivastigmine and idalopirdine reduces the propensity for falls in a rat model of falls in Parkinsonâ€™s disease. Psychopharmacology, 2019, 236, 1701-1715.	3.1	8
151	Cholinergic systems, attentional-motor integration, and cognitive control in Parkinson's disease. Progress in Brain Research, 2022, 269, 345-371.	1.4	8
152	Reduction of falls in a rat model of PD falls by the M1 PAM TAK-071. Psychopharmacology, 2021, 238, 1953-1964.	3.1	7
153	Repetitive mild concussion in subjects with a vulnerable cholinergic system: Lasting cholinergic-attentional impairments in CHT+/âˆ’ mice.. Behavioral Neuroscience, 2019, 133, 448-459.	1.2	6
154	Psychophysiology. , 0, , 123-138.		5
155	Cholinergic control of attention to cues guiding established performance versus learning: Theoretical comment on Maddux, Kerfoot, Chatterjee, and Holland (2007).. Behavioral Neuroscience, 2007, 121, 233-235.	1.2	5
156	Disrupted Choline Clearance and Sustained Acetylcholine Release<i>In Vivo</i>by a Common Choline Transporter Coding Variant Associated with Poor Attentional Control in Humans. Journal of Neuroscience, 2022, 42, 3426-3444.	3.6	5
157	The consequences of atheoretical, task-driven experimentation: Theoretical comment on Paban, Chambon, Jaffard, and Alescio-Lautier (2005).. Behavioral Neuroscience, 2006, 120, 493-495.	1.2	4
158	Neurobiology of cognition in laboratory animals: challenges and opportunities. Neuroscience and Biobehavioral Reviews, 2004, 28, 643.	6.1	3
159	The substantia innominata remains incognita: pressing research themes on basal forebrain neuroanatomy. Brain Structure and Function, 2008, 213, 11-15.	2.3	3
160	Comment on Pohorala et al.: Sign-tracking as a predictor of addiction vulnerability. Psychopharmacology, 2021, 238, 2661-2664.	3.1	3
161	Dopamine-GABA-cholinergic interactions and negative schizophrenic symptomatology. Behavioral and Brain Sciences, 1991, 14, 46-47.	0.7	2
162	CORTICAL CHOLINERGIC TRANSIENTS FOR CUE DETECTION AND ATTENTIONAL MODE SHIFTS. , 2015, , 27-44.		2

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163	Hemicholinium-3 sensitive choline transport in human T lymphocytes: Evidence for use as a proxy for brain choline transporter (CHT) capacity. Neurochemistry International, 2017, 108, 410-416.	3.8	2
164	Cortical cholinergic inputs mediate processing capacity: effects of 192 IgGâ€saporinâ€induced lesions on olfactory span performance. European Journal of Neuroscience, 2000, 12, 4505-4514.	2.6	1
165	Area Under the Curve. , 2010, , 151-151.		1
166	Forebrain Cholinergic Systems and Cognition: New Insights Based on Rapid Detection of Choline Spikes Using Enzyme-Based Biosensors. Neuromethods, 2013, , 257-277.	0.3	1
167	Cortico-Striatal, Cognitive-Motor Interactions Underlying Complex Movement Control Deficits. Innovations in Cognitive Neuroscience, 2016, , 117-134.	0.3	1
168	Presynaptic regulation and neurotransmitter modulation of acetylcholine release. , 2006, , 99-112.		1
169	Aminergic Transmitter Systems in Cognitive Disorders. , 0, , 235-245.		0
170	Underconstrained thalamic activation + underconstrained top-down modulation of cortical input processing = underconstrained perceptions. Behavioral and Brain Sciences, 2004, 27, 803-804.	0.7	0
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