

# Bruno B Averbeck

## List of Publications by Year in descending order

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146  
papers

8,736  
citations

47006

47  
h-index

54911

84  
g-index

156  
all docs

156  
docs citations

156  
times ranked

8622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinforcement-learning in fronto-striatal circuits. <i>Neuropsychopharmacology</i> , 2022, 47, 147-162.	5.4	41
2	The importance of pro-social processing, and ameliorating dysfunction in schizophrenia. An FMRI study of oxytocin. <i>Schizophrenia Research: Cognition</i> , 2022, 27, 100221.	1.3	8
3	Differential coding of goals and actions in ventral and dorsal corticostriatal circuits during goal-directed behavior. <i>Cell Reports</i> , 2022, 38, 110198.	6.4	12
4	The role of cognitive control in the positive symptoms of psychosis. <i>NeuroImage: Clinical</i> , 2022, 34, 103004.	2.7	6
5	Self-tuition as an essential design feature of the brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200530.	4.0	4
6	Computational modeling of threat learning reveals links with anxiety and neuroanatomy in humans. <i>ELife</i> , 2022, 11, .	6.0	5
7	Hierarchical Reinforcement Learning, Sequential Behavior, and the Dorsal Frontostriatal System. <i>Journal of Cognitive Neuroscience</i> , 2022, , 1-19.	2.3	1
8	Pruning recurrent neural networks replicates adolescent changes in working memory and reinforcement learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	13
9	Shared mechanisms mediate the explore-exploit tradeoff in macaques and humans. <i>Neuron</i> , 2022, 110, 1751-1753.	8.1	1
10	Neural correlates of risky decision making in Parkinson's disease patients with impulse control disorders. <i>Experimental Brain Research</i> , 2022, 240, 2241-2253.	1.5	3
11	Inference as a fundamental process in behavior. <i>Current Opinion in Behavioral Sciences</i> , 2021, 38, 8-13.	3.9	11
12	Effects of Amygdala Lesions on Object-Based Versus Action-Based Learning in Macaques. <i>Cerebral Cortex</i> , 2021, 31, 529-546.	2.9	14
13	Cognitive control network connectivity differentially disrupted in treatment resistant schizophrenia. <i>NeuroImage: Clinical</i> , 2021, 30, 102631.	2.7	13
14	Reward-related choices determine information timing and flow across macaque lateral prefrontal cortex. <i>Nature Communications</i> , 2021, 12, 894.	12.8	13
15	Deliberative Choice Strategies in Youths: Relevance to Transdiagnostic Anxiety Symptoms. <i>Clinical Psychological Science</i> , 2021, 9, 979-989.	4.0	2
16	Individual associations of adolescent alcohol use disorder versus cannabis use disorder symptoms in neural prediction error signaling and the response to novelty. <i>Developmental Cognitive Neuroscience</i> , 2021, 48, 100944.	4.0	13
17	Fluoxetine incentivizes ventral striatum encoding of reward and punishment. <i>Neuropsychopharmacology</i> , 2021, 46, 2041-2042.	5.4	1
18	Intelligence matters for stochastic feedback processing during sequence learning in adolescents and young adults. <i>Intelligence</i> , 2021, 86, 101542.	3.0	3

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19	A convolutional neural network for estimating synaptic connectivity from spike trains. <i>Scientific Reports</i> , 2021, 11, 12087.	3.3	7
20	Organization of parietoprefrontal and temporoprefrontal networks in the macaque. <i>Journal of Neurophysiology</i> , 2021, 126, 1289-1309.	1.8	8
21	Correlates of Auditory Decision-Making in Prefrontal, Auditory, and Basal Lateral Amygdala Cortical Areas. <i>Journal of Neuroscience</i> , 2021, 41, 1301-1316.	3.6	7
22	Mortimer Mishkin (1926–2021): A life of science with humility and grace. <i>Neuron</i> , 2021, 109, 3392-3394.	8.1	0
23	Anticipatory Threat Responding: Associations With Anxiety, Development, and Brain Structure. <i>Biological Psychiatry</i> , 2020, 87, 916-925.	1.3	48
24	Learning to select actions shapes recurrent dynamics in the corticostriatal system. <i>Neural Networks</i> , 2020, 132, 375-393.	5.9	11
25	Hypothalamic Interactions with Large-Scale Neural Circuits Underlying Reinforcement Learning and Motivated Behavior. <i>Trends in Neurosciences</i> , 2020, 43, 681-694.	8.6	30
26	Primate Orbitofrontal Cortex Codes Information Relevant for Managing Explore–Exploit Tradeoffs. <i>Journal of Neuroscience</i> , 2020, 40, 2553-2561.	3.6	45
27	Information-Limiting Correlations in Large Neural Populations. <i>Journal of Neuroscience</i> , 2020, 40, 1668-1678.	3.6	62
28	Dimensionality, information and learning in prefrontal cortex. <i>PLoS Computational Biology</i> , 2020, 16, e1007514.	3.2	29
29	Prefrontal Cortex Predicts State Switches during Reversal Learning. <i>Neuron</i> , 2020, 106, 1044-1054.e4.	8.1	78
30	Dimensionality, information and learning in prefrontal cortex. , 2020, 16, e1007514.		0
31	Dimensionality, information and learning in prefrontal cortex. , 2020, 16, e1007514.		0
32	Dimensionality, information and learning in prefrontal cortex. , 2020, 16, e1007514.		0
33	Dimensionality, information and learning in prefrontal cortex. , 2020, 16, e1007514.		0
34	Dopamine manipulations drive changes in information sampling in healthy volunteers. <i>Journal of Psychopharmacology</i> , 2019, 33, 670-677.	4.0	4
35	Subcortical Substrates of Explore-Exploit Decisions in Primates. <i>Neuron</i> , 2019, 103, 533-545.e5.	8.1	87
36	Cross-species convergence in pupillary response: understanding human anxiety via non-human primate amygdala lesion. <i>Social Cognitive and Affective Neuroscience</i> , 2019, 14, 591-599.	3.0	7

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37	Directional interconnectivity of the human amygdala, fusiform gyrus, and orbitofrontal cortex in emotional scene perception. <i>Journal of Neurophysiology</i> , 2019, 122, 1530-1537.	1.8	26
38	Exposure therapy for pediatric irritability: Theory and potential mechanisms. <i>Behaviour Research and Therapy</i> , 2019, 118, 141-149.	3.1	36
39	A Comparison of Auditory Oddball Responses in Dorsolateral Prefrontal Cortex, Basolateral Amygdala, and Auditory Cortex of Macaque. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 1054-1064.	2.3	32
40	Looking for Mr(s) Right: Decision bias can prevent us from finding the most attractive face. <i>Cognitive Psychology</i> , 2019, 111, 1-14.	2.2	6
41	Reinforcement learning in artificial and biological systems. <i>Nature Machine Intelligence</i> , 2019, 1, 133-143.	16.0	157
42	S18. Computational Modeling of Threat Learning: Associations With Anxiety, Age, and Brain Structure. <i>Biological Psychiatry</i> , 2019, 85, S303.	1.3	0
43	Pavlovian patterns in the amygdala. <i>Nature Neuroscience</i> , 2019, 22, 1949-1950.	14.8	1
44	Signature Patterns for Top-Down and Bottom-Up Information Processing via Cross-Frequency Coupling in Macaque Auditory Cortex. <i>ENeuro</i> , 2019, 6, ENEURO.0467-18.2019.	1.9	21
45	Reflection impulsivity perceptual decision-making in patients with restless legs syndrome. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 315-322.	3.7	10
46	Differential neural reward mechanisms in treatment-responsive and treatment-resistant schizophrenia. <i>Psychological Medicine</i> , 2018, 48, 2418-2427.	4.5	29
47	The value of novelty in schizophrenia. <i>Schizophrenia Research</i> , 2018, 192, 287-293.	2.0	15
48	Ventral striatum's role in learning from gains and losses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12398-E12406.	7.1	28
49	Impulsivity in Parkinson's Disease Is Associated With Alterations in Affective and Sensorimotor Striatal Networks. <i>Frontiers in Neurology</i> , 2018, 9, 279.	2.4	26
50	Amygdala Contributions to Stimulus-Reward Encoding in the Macaque Medial and Orbital Frontal Cortex during Learning. <i>Journal of Neuroscience</i> , 2017, 37, 2186-2202.	3.6	67
51	Effects of Ventral Striatum Lesions on Stimulus-Based versus Action-Based Reinforcement Learning. <i>Journal of Neuroscience</i> , 2017, 37, 6902-6914.	3.6	43
52	The Computational and Neural Basis of Rhythmic Timing in Medial Premotor Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 4552-4564.	3.6	69
53	Motivational neural circuits underlying reinforcement learning. <i>Nature Neuroscience</i> , 2017, 20, 505-512.	14.8	144
54	Unbelievable: Neural Correlate of the Feedback Negativity in the Anterior Cingulate. <i>Neuron</i> , 2017, 95, 237-239.	8.1	5

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55	Anxiety symptoms and children's eye gaze during fear learning. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2017, 58, 1276-1286.	5.2	26
56	High channel count single-unit recordings from nonhuman primate frontal cortex. <i>Journal of Neuroscience Methods</i> , 2017, 289, 39-47.	2.5	38
57	Prediction Error Representation in Individuals With Generalized Anxiety Disorder During Passive Avoidance. <i>American Journal of Psychiatry</i> , 2017, 174, 110-117.	7.2	52
58	Amygdala and ventral striatum population codes implement multiple learning rates for reinforcement learning. , 2017, , .		10
59	Ventral striatum lesions do not affect reinforcement learning with deterministic outcomes on slow time scales.. <i>Behavioral Neuroscience</i> , 2017, 131, 385-391.	1.2	4
60	Computational Architecture of the Parieto-Frontal Network Underlying Cognitive-Motor Control in Monkeys. <i>ENeuro</i> , 2017, 4, ENEURO.0306-16.2017.	1.9	62
61	376. Subcortical Contributions to the Explore-Exploit Tradeoff. <i>Biological Psychiatry</i> , 2017, 81, S154.	1.3	2
62	Amygdala and Ventral Striatum Make Distinct Contributions to Reinforcement Learning. <i>Neuron</i> , 2016, 92, 505-517.	8.1	112
63	Blocking serotonin but not dopamine reuptake alters neural processing during perceptual decision making.. <i>Behavioral Neuroscience</i> , 2016, 130, 461-468.	1.2	7
64	Using model systems to understand errant plasticity mechanisms in psychiatric disorders. <i>Nature Neuroscience</i> , 2016, 19, 1418-1425.	14.8	20
65	Jumping to conclusions in untreated patients with Parkinson's disease. <i>Neuropsychologia</i> , 2016, 85, 19-23.	1.6	19
66	Distributed acoustic cues for caller identity in macaque vocalization. <i>Royal Society Open Science</i> , 2015, 2, 150432.	2.4	15
67	Jumping to conclusions in schizophrenia. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 1615.	2.2	49
68	Injection of a Dopamine Type 2 Receptor Antagonist into the Dorsal Striatum Disrupts Choices Driven by Previous Outcomes, But Not Perceptual Inference. <i>Journal of Neuroscience</i> , 2015, 35, 6298-6306.	3.6	49
69	Amygdala lesions in rhesus macaques decrease attention to threat. <i>Nature Communications</i> , 2015, 6, 10161.	12.8	60
70	Reversal Learning and Dopamine: A Bayesian Perspective. <i>Journal of Neuroscience</i> , 2015, 35, 2407-2416.	3.6	127
71	The effects of a single dose of oxytocin on working memory in schizophrenia. <i>Schizophrenia Research</i> , 2015, 162, 62-63.	2.0	28
72	Frontal-Parietal and Limbic-Striatal Activity Underlies Information Sampling in the Best Choice Problem. <i>Cerebral Cortex</i> , 2015, 25, 972-982.	2.9	25

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73	Neurophysiological effects of acute oxytocin administration: systematic review and meta-analysis of placebo-controlled imaging studies. <i>Journal of Psychiatry and Neuroscience</i> , 2015, 40, E1-E22.	2.4	159
74	Oxytocin modulates fMRI responses to facial expression in macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3123-30.	7.1	46
75	Theory of Choice in Bandit, Information Sampling and Foraging Tasks. <i>PLoS Computational Biology</i> , 2015, 11, e1004164.	3.2	67
76	A systematic approach to selecting task relevant neurons. <i>Journal of Neuroscience Methods</i> , 2015, 245, 156-168.	2.5	4
77	The Role of Frontal Cortical and Medial-Temporal Lobe Brain Areas in Learning a Bayesian Prior Belief on Reversals. <i>Journal of Neuroscience</i> , 2015, 35, 11751-11760.	3.6	66
78	Real-Time Dopamine Measurement in Awake Monkeys. <i>PLoS ONE</i> , 2014, 9, e98692.	2.5	40
79	Oxytocin enhances attention to the eye region in rhesus monkeys. <i>Frontiers in Neuroscience</i> , 2014, 8, 41.	2.8	64
80	In a Rush to Decide: Deep Brain Stimulation and Dopamine Agonist Therapy in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2014, 4, 579-583.	2.8	9
81	Stochastic reinforcement benefits skill acquisition. <i>Learning and Memory</i> , 2014, 21, 140-142.	1.3	31
82	Perceptual decision-making in patients with Parkinson's disease. <i>Journal of Psychopharmacology</i> , 2014, 28, 1149-1154.	4.0	22
83	Brain Structural Substrates of Reward Dependence during Behavioral Performance. <i>Journal of Neuroscience</i> , 2014, 34, 16433-16441.	3.6	20
84	Dopamine modulates novelty seeking behavior during decision making. <i>Behavioral Neuroscience</i> , 2014, 128, 556-566.	1.2	183
85	Differential Coding of Conspecific Vocalizations in the Ventral Auditory Cortical Stream. <i>Journal of Neuroscience</i> , 2014, 34, 4665-4676.	3.6	39
86	Intranasal oxytocin effects on social cognition: A critique. <i>Brain Research</i> , 2014, 1580, 69-77.	2.2	82
87	Cross-Frequency Power Coupling Between Hierarchically Organized Face-Selective Areas. <i>Cerebral Cortex</i> , 2014, 24, 2409-2420.	2.9	25
88	Estimates of Projection Overlap and Zones of Convergence within Frontal-Striatal Circuits. <i>Journal of Neuroscience</i> , 2014, 34, 9497-9505.	3.6	140
89	Do Parkinson's Disease Patients Have Deficits in Sequential Sampling Tasks?. <i>Movement Disorders Clinical Practice</i> , 2014, 1, 325-328.	1.5	1
90	CSF and Blood Oxytocin Concentration Changes following Intranasal Delivery in Macaque. <i>PLoS ONE</i> , 2014, 9, e103677.	2.5	146

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91	Looking into the future. <i>ELife</i> , 2014, 3, e03146.	6.0	2
92	Pathological Choice: The Neuroscience of Gambling and Gambling Addiction. <i>Journal of Neuroscience</i> , 2013, 33, 17617-17623.	3.6	87
93	Uncertainty about mapping future actions into rewards may underlie performance on multiple measures of impulsivity in behavioral addiction: Evidence from Parkinson's disease.. <i>Behavioral Neuroscience</i> , 2013, 127, 245-255.	1.2	40
94	Increased reflection impulsivity in patients with ephedrone-induced Parkinsonism. <i>Addiction</i> , 2013, 108, 771-779.	3.3	25
95	Dopamine Agonists Rather than Deep Brain Stimulation Cause Reflection Impulsivity in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2013, 3, 139-144.	2.8	39
96	Performance on a probabilistic inference task in healthy subjects receiving ketamine compared with patients with schizophrenia. <i>Journal of Psychopharmacology</i> , 2012, 26, 1211-1217.	4.0	24
97	Dynamic and Static Facial Expressions Decoded from Motion-Sensitive Areas in the Macaque Monkey. <i>Journal of Neuroscience</i> , 2012, 32, 15952-15962.	3.6	67
98	Action Selection and Action Value in Frontal-Striatal Circuits. <i>Neuron</i> , 2012, 74, 947-960.	8.1	140
99	Spontaneous High-Gamma Band Activity Reflects Functional Organization of Auditory Cortex in the Awake Macaque. <i>Neuron</i> , 2012, 74, 899-910.	8.1	69
100	Sequence Learning Under Uncertainty in Children: Self-Reflection vs. Self-Assertion. <i>Frontiers in Psychology</i> , 2012, 3, 127.	2.1	14
101	Decision making, impulsivity, and addictions: Do Parkinson's disease patients jump to conclusions?. <i>Movement Disorders</i> , 2012, 27, 1137-1145.	3.9	85
102	Effects of Dopamine on Sensitivity to Social Bias in Parkinson's Disease. <i>PLoS ONE</i> , 2012, 7, e32889.	2.5	9
103	A Selective Emotional Decision-Making Bias Elicited by Facial Expressions. <i>PLoS ONE</i> , 2012, 7, e33461.	2.5	30
104	Probabilistic learning and inference in schizophrenia. <i>Schizophrenia Research</i> , 2011, 127, 115-122.	2.0	83
105	Clinical aspects of impulsive compulsive behaviours in Parkinson's disease. <i>Journal of the Neurological Sciences</i> , 2011, 310, 183-188.	0.6	42
106	Stroop test performance in impulsive and non impulsive patients with Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2011, 17, 212-214.	2.2	65
107	Altruistic punishment in patients with Parkinson's disease with and without impulsive behaviour. <i>Neuropsychologia</i> , 2011, 49, 103-107.	1.6	18
108	Novelty seeking behaviour in Parkinson's disease. <i>Neuropsychologia</i> , 2011, 49, 2483-2488.	1.6	66

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109	Neural Correlates of Sequence Learning with Stochastic Feedback. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1346-1357.	2.3	4
110	Effects of Emotional Preferences on Value-based Decision-making Are Mediated by Mentalizing and Not Reward Networks. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2197-2210.	2.3	26
111	Effects of dopamine depletion on information flow between the subthalamic nucleus and external globus pallidus. <i>Journal of Neurophysiology</i> , 2011, 106, 2012-2023.	1.8	49
112	Parietal Cortex and Insula Relate to Evidence Seeking Relevant to Reward-Related Decisions. <i>Journal of Neuroscience</i> , 2011, 31, 17572-17582.	3.6	98
113	Salivary cortisol levels in Parkinson's disease and its correlation to risk behaviour. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 1107-1111.	1.9	46
114	Risk and learning in impulsive and nonimpulsive patients with Parkinson's disease. <i>Movement Disorders</i> , 2010, 25, 2203-2210.	3.9	88
115	Understanding the parietal lobe syndrome from a neurophysiological and evolutionary perspective. <i>European Journal of Neuroscience</i> , 2010, 31, 2320-2340.	2.6	75
116	Effects of dopamine medication on sequence learning with stochastic feedback in Parkinson's disease. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, .	2.5	22
117	Oxytocin Decreases Aversion to Angry Faces in an Associative Learning Task. <i>Neuropsychopharmacology</i> , 2010, 35, 2502-2509.	5.4	76
118	Rapid Sequences of Population Activity Patterns Dynamically Encode Task-Critical Spatial Information in Parietal Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 11640-11653.	3.6	104
119	Oxytocin and the salience of social cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9033-9034.	7.1	53
120	Effects of Dopamine Depletion on Network Entropy in the External Globus Pallidus. <i>Journal of Neurophysiology</i> , 2009, 102, 1092-1102.	1.8	46
121	Resonance in subthalamo-cortical circuits in Parkinson's disease. <i>Brain</i> , 2009, 132, 2139-2150.	7.6	103
122	Statistical Analysis of Parieto-Frontal Cognitive-Motor Networks. <i>Journal of Neurophysiology</i> , 2009, 102, 1911-1920.	1.8	45
123	Differential contribution of superior parietal and dorsal lateral prefrontal cortices in copying. <i>Cortex</i> , 2009, 45, 432-441.	2.4	17
124	Poisson or Not Poisson: Differences in Spike Train Statistics between Parietal Cortical Areas. <i>Neuron</i> , 2009, 62, 310-311.	8.1	23
125	The Primate Cortical Auditory System and Neural Representation of Conspecific Vocalizations. <i>Annual Review of Neuroscience</i> , 2009, 32, 315-346.	10.7	161
126	Integration of social and utilitarian factors in decision making.. <i>Emotion</i> , 2009, 9, 599-608.	1.8	33



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127	The Statistical Neuroanatomy of Frontal Networks in the Macaque. PLoS Computational Biology, 2008, 4, e1000050.	3.2	94
128	Neural Ensemble Decoding Reveals a Correlate of Viewer- to Object-Centered Spatial Transformation in Monkey Parietal Cortex. Journal of Neuroscience, 2008, 28, 5218-5228.	3.6	75
129	Prefrontal Neural Correlates of Memory for Sequences. Journal of Neuroscience, 2007, 27, 2204-2211.	3.6	102
130	Effects of Noise Correlations on Information Encoding and Decoding. Journal of Neurophysiology, 2006, 95, 3633-3644.	1.8	196
131	Activity in prefrontal cortex during dynamic selection of action sequences. Nature Neuroscience, 2006, 9, 276-282.	14.8	128
132	Neural correlations, population coding and computation. Nature Reviews Neuroscience, 2006, 7, 358-366.	10.2	1,419
133	Probabilistic Encoding of Vocalizations in Macaque Ventral Lateral Prefrontal Cortex. Journal of Neuroscience, 2006, 26, 11023-11033.	3.6	54
134	Integration of Auditory and Visual Communication Information in the Primate Ventrolateral Prefrontal Cortex. Journal of Neuroscience, 2006, 26, 11138-11147.	3.6	243
135	Neural Representation of Vocalizations in the Primate Ventrolateral Prefrontal Cortex. Journal of Neurophysiology, 2005, 93, 734-747.	1.8	207
136	Parietal Representation of Hand Velocity in a Copy Task. Journal of Neurophysiology, 2005, 93, 508-518.	1.8	46
137	Dynamics of Parietal Neural Activity during Spatial Cognitive Processing. Neuron, 2005, 47, 885-891.	8.1	49
138	Learning and production of movement sequences: Behavioral, neurophysiological, and modeling perspectives. Human Movement Science, 2004, 23, 699-746.	1.4	183
139	Participation of primary motor cortical neurons in a distributed network during maze solution: representation of spatial parameters and time-course comparison with parietal area 7a. Experimental Brain Research, 2004, 158, 28-34.	1.5	24
140	Coding and transmission of information by neural ensembles. Trends in Neurosciences, 2004, 27, 225-230.	8.6	174
141	Principal and Independent Components of Macaque Vocalizations: Constructing Stimuli to Probe High-Level Sensory Processing. Journal of Neurophysiology, 2004, 91, 2897-2909.	1.8	19
142	Neural activity in prefrontal cortex during copying geometrical shapes. Experimental Brain Research, 2003, 150, 127-141.	1.5	93
143	Neural activity in prefrontal cortex during copying geometrical shapes. Experimental Brain Research, 2003, 150, 142-153.	1.5	93
144	Neural Noise and Movement-Related Codes in the Macaque Supplementary Motor Area. Journal of Neuroscience, 2003, 23, 7630-7641.	3.6	89

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145	Parallel processing of serial movements in prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13172-13177.	7.1	241
146	Mental Maze Solving. Journal of Cognitive Neuroscience, 2000, 12, 813-827.	2.3	35