Thomas Boraud

List of Publications by Year
in descending order

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67	5,847	117625	95266
papers	citations	34 h-index	68 g-index

73	73	73	5014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversal of Rigidity and Improvement in Motor Performance by Subthalamic Highâ€frequency Stimulation in MPTPâ€treated Monkeys. European Journal of Neuroscience, 1993, 5, 382-389.	2.6	576
2	Attenuation of levodopa-induced dyskinesia by normalizing dopamine D3 receptor function. Nature Medicine, 2003, 9, 762-767.	30.7	370
3	Subthalamic high frequency stimulation resets subthalamic firing and reduces abnormal oscillations. Brain, 2005, 128, 2372-2382.	7.6	327
4	Competition between Feedback Loops Underlies Normal and Pathological Dynamics in the Basal Ganglia. Journal of Neuroscience, 2006, 26, 3567-3583.	3.6	289
5	Enhanced Synchrony among Primary Motor Cortex Neurons in the 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine Primate Model of Parkinson's Disease. Journal of Neuroscience, 2002, 22, 4639-4653.	3.6	260
6	Neuronal Oscillations in the Basal Ganglia and Movement Disorders: Evidence from Whole Animal and Human Recordings. Journal of Neuroscience, 2004, 24, 9240-9243.	3.6	258
7	Coordinated reset has sustained aftereffects in Parkinsonian monkeys. Annals of Neurology, 2012, 72, 816-820.	5.3	249
8	High frequency stimulation of the internal Globus Pallidus (GPi) simultaneously improves parkinsonian symptoms and reduces the firing frequency of GPi neurons in the MPTP-treated monkey. Neuroscience Letters, 1996, 215, 17-20.	2.1	244
9	Electrophysiological and metabolic evidence that highâ€frequency stimulation of the subthalamic nucleus bridles neuronal activity in the subthalamic nucleus and the substantia nigra reticulata. FASEB Journal, 2003, 17, 1820-1830.	0.5	235
10	Spike Synchronization in the Cortex-Basal Ganglia Networks of Parkinsonian Primates Reflects Global Dynamics of the Local Field Potentials. Journal of Neuroscience, 2004, 24, 6003-6010.	3.6	205
11	High-frequency stimulation of the globus pallidus internalis in Parkinson's disease: a study of seven cases. Journal of Neurosurgery, 1997, 87, 491-498.	1.6	187
12	Arkypallidal Cells Send a Stop Signal to Striatum. Neuron, 2016, 89, 308-316.	8.1	186
13	Dopamine agonist-induced dyskinesias are correlated to both firing pattern and frequency alterations of pallidal neurones in the MPTP-treated monkey. Brain, 2001, 124, 546-557.	7.6	180
14	Preparatory activity in motor cortex reflects learning of local visuomotor skills. Nature Neuroscience, 2003, 6, 882-890.	14.8	174
15	Low statistical power in biomedical science: a review of three human research domains. Royal Society Open Science, 2017, 4, 160254.	2.4	154
16	Comparison of eight clinical rating scales used for the assessment of MPTP-induced parkinsonism in the Macaque monkey. Journal of Neuroscience Methods, 2000, 96, 71-76.	2.5	142
17	Late emergence of synchronized oscillatory activity in the pallidum during progressive parkinsonism. European Journal of Neuroscience, 2007, 26, 1701-1713.	2.6	139
18	Involvement of the subthalamic nucleus in glutamatergic compensatory mechanisms. European Journal of Neuroscience, 1999, 11, 2167-2170.	2.6	136

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19	Increased slow oscillatory activity in substantia nigra pars reticulata triggers abnormal involuntary movements in the 6-OHDA-lesioned rat in the presence of excessive extracelullar striatal dopamine. Neurobiology of Disease, 2006, 22, 586-598.	4.4	134
20	Shaping of Motor Responses by Incentive Values through the Basal Ganglia. Journal of Neuroscience, 2007, 27, 1176-1183.	3.6	106
21	Dynamic Changes in the Cortex-Basal Ganglia Network After Dopamine Depletion in the Rat. Journal of Neurophysiology, 2008, 100, 385-396.	1.8	79
22	Spontaneous long-term compensatory dopaminergic sprouting in MPTP-treated mice. Synapse, 2000, 38, 363-368.	1.2	69
23	The effect of riluzole on post-traumatic spinal cord injury in the rat. NeuroReport, 1996, 7, 387-392.	1.2	68
24	Cortical Stimulation and Epileptic Seizure: A Study of the Potential Risk in Primates. Neurosurgery, 1999, 45, 346-350.	1.1	64
25	Poor replication validity of biomedical association studies reported by newspapers. PLoS ONE, 2017, 12, e0172650.	2.5	60
26	Trichloroethylene and parkinsonism: a human and experimental observation. European Journal of Neurology, 1999, 6, 609-611.	3.3	59
27	The globus pallidus orchestrates abnormal network dynamics in a model of Parkinsonism. Nature Communications, 2020, 11, 1570.	12.8	59
28	Brain Hemispheres Selectively Track the Expected Value of Contralateral Options. Journal of Neuroscience, 2009, 29, 13465-13472.	3.6	57
29	Emerging Patterns of Neuronal Responses in Supplementary and Primary Motor Areas during Sensorimotor Adaptation. Journal of Neuroscience, 2005, 25, 10941-10951.	3.6	53
30	Temporal and spatial alterations in GPi neuronal encoding might contribute to slow down movement in Parkinsonian monkeys. European Journal of Neuroscience, 2006, 24, 1201-1208.	2.6	51
31	Social decision making in autism: On the impact of mirror neurons, motor control, and imitative behaviors. CNS Neuroscience and Therapeutics, 2018, 24, 669-676.	3.9	51
32	Misrepresentation of Neuroscience Data Might Give Rise to Misleading Conclusions in the Media: The Case of Attention Deficit Hyperactivity Disorder. PLoS ONE, 2011, 6, e14618.	2.5	42
33	Inhibition of dopamine uptake by D2 antagonists: an in vivo study. Journal of Neurochemistry, 2011, 116, 449-458.	3.9	37
34	The globus pallidus pars interna in goalâ€oriented and routine behaviors: Resolving a longâ€standing paradox. Movement Disorders, 2016, 31, 1146-1154.	3.9	37
35	Synchronous high-voltage spindles in the cortex-basal ganglia network of awake and unrestrained rats. European Journal of Neuroscience, 2007, 25, 772-784.	2.6	36
36	Power Fluctuations in Beta and Gamma Frequencies in Rat Globus Pallidus: Association with Specific Phases of Slow Oscillations and Differential Modulation by Dopamine D₁and D₂Receptors. Journal of Neuroscience, 2011, 31, 6098-6107.	3.6	36

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37	Evolution of the dynamic properties of the cortexâ€“basal ganglia network after dopaminergic depletion in rats. Neurobiology of Disease, 2012, 46, 402-413.	4.4	33
38	Presymptomatic revelation of experimental Parkinsonism. NeuroReport, 1997, 8, 435-438.	1.2	28
39	A long journey into reproducible computational neuroscience. Frontiers in Computational Neuroscience, 2015, 9, 30.	2.1	28
40	Deep brain stimulation changes basal ganglia output nuclei firing pattern in the dystonic hamster. Neurobiology of Disease, 2010, 38, 288-298.	4.4	24
41	Replication Validity of Initial Association Studies: A Comparison between Psychiatry, Neurology and Four Somatic Diseases. PLoS ONE, 2016, 11, e0158064.	2.5	22
42	Scientific Uncertainty in the Press: How Newspapers Describe Initial Biomedical Findings. Science Communication, 2018, 40, 124-141.	3.3	21
43	Acquisition and generalization of visuomotor transformations by nonhuman primates. Experimental Brain Research, 2005, 161, 209-219.	1.5	20
44	Alterations in Functional Cortical Hierarchy in Hemiparkinsonian Rats. Journal of Neuroscience, 2017, 37, 7669-7681.	3.6	19
45	A natural history of skills. Progress in Neurobiology, 2018, 171, 114-124.	5.7	19
46	Inhibiting Lateral Habenula Improves L-DOPAâ€“Induced Dyskinesia. Biological Psychiatry, 2016, 79, 345-353.	1.3	18
47	Memories of Opiate Withdrawal Emotional States Correlate with Specific Gamma Oscillations in the Nucleus Accumbens. Neuropsychopharmacology, 2017, 42, 1157-1168.	5.4	18
48	What is the true discharge rate and pattern of the striatal projection neurons in Parkinsonâ€™s disease and Dystonia?. ELife, 2020, 9, .	6.0	18
49	Naftazone in advanced Parkinson's disease: An acute L-DOPA challenge randomized controlled trial. Parkinsonism and Related Disorders, 2019, 60, 51-56.	2.2	15
50	An asymmetry of treatment between lotteries involving gains and losses in rhesus monkeys. Scientific Reports, 2019, 9, 10441.	3.3	14
51	Does newspapers coverage influence the citations count of scientific publications? An analysis of biomedical studies. Scientometrics, 2020, 123, 413-427.	3.0	14
52	In vivo electrophysiological validation of DREADDâ€based modulation of pallidal neurons in the nonâ€human primate. European Journal of Neuroscience, 2021, 53, 2192-2204.	2.6	13
53	Quantification of motor slowness in Parkinson's disease: Correlations between the tapping test and single joint ballistic movement parameters. Parkinsonism and Related Disorders, 1997, 3, 47-50.	2.2	12
54	Decision making under uncertainty in a spiking neural network model of the basal ganglia. Journal of Integrative Neuroscience, 2016, 15, 515-538.	1.7	12

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55	Complex Population Response of Dorsal Putamen Neurons Predicts the Ability to Learn. PLoS ONE, 2013, 8, e80683.	2.5	12
56	Why am I lost without dopamine? Effects of 6-OHDA lesion on the encoding of reward and decision process in CA3. Neurobiology of Disease, 2013, 59, 151-164.	4.4	11
57	The adaptive value of probability distortion and risk-seeking in macaquesâ€™ decision-making. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190668.	4.0	10
58	Basal Ganglia Preferentially Encode Context Dependent Choice in a Two-Armed Bandit Task. Frontiers in Systems Neuroscience, 2011, 5, 23.	2.5	9
59	The Michelin red guide of the brain: role of dopamine in goal-oriented navigation. Frontiers in Systems Neuroscience, 2014, 8, 32.	2.5	9
60	Easy Rider: Monkeys Learn to Drive a Wheelchair to Navigate through a Complex Maze. PLoS ONE, 2014, 9, e96275.	2.5	8
61	Optimizing Treatment in Undertreated Late-Stage Parkinsonism: A Pragmatic Randomized Trial. Journal of Parkinson's Disease, 2020, 10, 1171-1184.	2.8	6
62	A Computational Model of Dual Competition between the Basal Ganglia and the Cortex. ENeuro, 2018, 5, ENEURO.0339-17.2018.	1.9	6
63	Economic behaviours among non-human primates. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190676.	4.0	4
64	Do newspapers preferentially cover biomedical studies involving national scientists?. Public Understanding of Science, 2019, 28, 191-200.	2.8	3
65	Towards a dynamic approach of experimental parkinsonism. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 1998, 22, 1317-1329.	4.8	2
66	High resolution 3T fMRI in anesthetized monkeys. Journal of Neuroscience Methods, 2012, 205, 86-95.	2.5	2
67	Special Issue Editorial: Basal Ganglia/Movement Disorders. European Journal of Neuroscience, 2021, 53, 2045-2048.	2.6	0