

# Olivier Darbin

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

913  
citations

516215

16  
h-index

454577

30  
g-index

41  
all docs

41  
docs citations

41  
times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges for future theories of Parkinson pathophysiology. <i>Neuroscience Research</i> , 2022, 177, 1-7.	1.0	4
2	Spectrum dependency to rate and spike timing in neuronal spike trains. <i>Journal of Neuroscience Methods</i> , 2022, 372, 109532.	1.3	0
3	Subthalamic nucleus deep brain stimulation driven by primary motor cortex $\hat{I}^{32}$ activity in parkinsonian monkeys. <i>Scientific Reports</i> , 2022, 12, 6493.	1.6	4
4	Physical Plasticity of the Brain and Deep Brain Stimulation Lead: Evolution in the First Post-operative Week. <i>Frontiers in Surgery</i> , 2020, 7, 55.	0.6	3
5	Parkinsonism Differently Affects the Single Neuronal Activity in the Primary and Supplementary Motor Areas in Monkeys: An Investigation in Linear and Nonlinear Domains. <i>International Journal of Neural Systems</i> , 2020, 30, 2050010.	3.2	4
6	Local field potential dynamics in the primate cortex in relation to parkinsonism revealed by machine learning: A comparison between the primary motor cortex and the supplementary area. <i>Neuroscience Research</i> , 2020, 156, 66-79.	1.0	10
7	Complex Dynamics in the Basal Ganglia: Health and Disease Beyond the Motor System. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2018, 30, 101-114.	0.9	17
8	Computed tomographic method to quantify electrode lead deformation and subdural gap after lead implantation for deep brain stimulation. <i>Journal of Neuroscience Methods</i> , 2018, 309, 55-59.	1.3	2
9	Editorial: Pathophysiology of the Basal Ganglia and Movement Disorders: Gaining New Insights from Modeling and Experimentation, to Influence the Clinic. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 466.	1.0	1
10	Parkinsonian Balance Deficits Quantified Using a Game Industry Board and a Specific Battery of Four Paradigms. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 431.	1.0	4
11	Neuronal Entropy-Rate Feature of Entopeduncular Nucleus in Rat Model of Parkinson's Disease. <i>International Journal of Neural Systems</i> , 2016, 26, 1550038.	3.2	17
12	Globus pallidus internus neuronal activity: a comparative study of linear and non-linear features in patients with dystonia or Parkinson's disease. <i>Journal of Neural Transmission</i> , 2016, 123, 231-240.	1.4	33
13	Chewing, Stress-Related Diseases, and Brain Function. <i>BioMed Research International</i> , 2015, 2015, 1-2.	0.9	3
14	An Entropy-Based Model for Basal Ganglia Dysfunctions in Movement Disorders. <i>BioMed Research International</i> , 2013, 2013, 1-5.	0.9	20
15	Non-Linear Dynamics in Parkinsonism. <i>Frontiers in Neurology</i> , 2013, 4, 211.	1.1	21
16	The aging striatal dopamine function. <i>Parkinsonism and Related Disorders</i> , 2012, 18, 426-432.	1.1	67
17	Striatal energetic homeostasis under anaesthetic conditions. <i>Brain Research</i> , 2011, 1388, 157-166.	1.1	2
18	Nonlinear temporal organization of neuronal discharge in the basal ganglia of Parkinson's disease patients. <i>Experimental Neurology</i> , 2010, 224, 542-544.	2.0	23

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19	Apomorphine reduces subthalamic neuronal entropy in parkinsonian patients. <i>Experimental Neurology</i> , 2010, 225, 455-458.	2.0	40
20	Nonlinear temporal organization of neuronal discharge in the basal ganglia of Parkinson's disease patients. <i>Experimental Neurology</i> , 2010, 224, 542-4.	2.0	11
21	A non-invasive technique to monitor wakefulness during electrophysiologic recording experiments in primates. <i>Journal of Neuroscience Methods</i> , 2009, 177, 448-451.	1.3	4
22	Effects of Striatal GABA <sub>A</sub> -Receptor Blockade on Striatal and Cortical Activity in Monkeys. <i>Journal of Neurophysiology</i> , 2008, 99, 1294-1305.	0.9	31
23	A new probe to monitor the effects of drugs on local field potentials. <i>Journal of Neuroscience Methods</i> , 2006, 155, 291-295.	1.3	10
24	Glucose metabolites in the striatum of freely behaving rats following infusion of elevated potassium. <i>Brain Research</i> , 2006, 1116, 127-131.	1.1	15
25	Nonlinear analysis of discharge patterns in monkey basal ganglia. <i>Brain Research</i> , 2006, 1118, 84-93.	1.1	36
26	Oscillations in the basal ganglia under normal conditions and in movement disorders. <i>Movement Disorders</i> , 2006, 21, 1566-1577.	2.2	295
27	Metabolic changes in rat striatum following convulsive seizures. <i>Brain Research</i> , 2005, 1050, 124-129.	1.1	20
28	Aging Alters Electroencephalographic and Clinical Manifestations of Kainate-induced Status Epilepticus. <i>Epilepsia</i> , 2004, 45, 1219-1227.	2.6	29
29	Technical aspects of an impact acceleration traumatic brain injury rat model with potential suitability for both microdialysis and PtIO <sub>2</sub> monitoring. <i>Journal of Neuroscience Methods</i> , 2004, 140, 23-28.	1.3	13
30	Pharmacologic evidence for a parasympathetic role in seizure-induced neurocardiac regulatory abnormalities. <i>Epilepsy and Behavior</i> , 2004, 5, 28-30.	0.9	6
31	Alteration of striatal dopaminergic function induced by glioma development: a microdialysis and immunohistological study in the rat striatum. <i>Neuroscience Letters</i> , 2004, 354, 131-134.	1.0	3
32	Effects of Seizure Repetition on Postictal and Interictal Neurocardiac Regulation in the Rat. <i>Epilepsia</i> , 2003, 44, 912-916.	2.6	34
33	Effects of seizure severity and seizure repetition on postictal cardiac arrhythmia following maximal electroshock. <i>Experimental Neurology</i> , 2003, 181, 327-331.	2.0	18
34	Pallidal administrations of gabazine and 5-AVA affect pressure-induced behavioral disorders in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2002, 71, 319-324.	1.3	2
35	Cardiac Dysrhythmia Associated with the Immediate Postictal State after Maximal Electroshock in Freely Moving Rat. <i>Epilepsia</i> , 2002, 43, 336-341.	2.6	25
36	Helium-oxygen pressure induces striatal glutamate increase: a microdialysis study in freely-moving rats. <i>Neuroscience Letters</i> , 2001, 297, 37-40.	1.0	8

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37	Effects of hypothermic deep-anaesthesia on energy metabolism at brain and peripheral levels: a multi-probe microdialysis study in free-moving rat. <i>Neuroscience Letters</i> , 2001, 304, 21-24.	1.0	11
38	In vivo study of tumor metabolism: an application of new multi-probe microdialysis system in the striatum of freely moving rats grafted with C6 cells. <i>Brain Research</i> , 2000, 881, 121-127.	1.1	18
39	High pressure enhanced NMDA activity in the striatum and the globus pallidus: relationships with myoclonia and locomotor and motor activity in rat. <i>Brain Research</i> , 2000, 852, 62-67.	1.1	23
40	A New System Analysis of Motor and Locomotor Activities Associated With a Microdialysis Study of Pressure-Induced Dopamine Increase in Rats. <i>Physiology and Behavior</i> , 1997, 62, 367-371.	1.0	13
41	Pressure induces striatal serotonin and dopamine increases: a simultaneous analysis in free-moving microdialysed rats. <i>Neuroscience Letters</i> , 1997, 238, 69-72.	1.0	13