

# Cãtia F Lourenã§o

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,058  
citations

331670

21  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurovascular coupling in hippocampus is mediated via diffusion by neuronal-derived nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014, 73, 421-429.	2.9	80
2	In Vivo Real-time Measurement of Nitric Oxide in Anesthetized Rat Brain. <i>Methods in Enzymology</i> , 2008, 441, 351-367.	1.0	69
3	Neurovascular-neuroenergetic coupling axis in the brain: master regulation by nitric oxide and consequences in aging and neurodegeneration. <i>Free Radical Biology and Medicine</i> , 2017, 108, 668-682.	2.9	66
4	Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. <i>Cardiovascular Research</i> , 2010, 87, 356-365.	3.8	61
5	Neurovascular uncoupling in the triple transgenic model of Alzheimer's disease: Impaired cerebral blood flow response to neuronal-derived nitric oxide signaling. <i>Experimental Neurology</i> , 2017, 291, 36-43.	4.1	61
6	Dietary flavonoids with a catechol structure increase $\hat{\alpha}$ -tocopherol in rats and protect the vitamin from oxidation in vitro. <i>Journal of Lipid Research</i> , 2006, 47, 2718-2725.	4.2	59
7	A comparative study of carbon fiber-based microelectrodes for the measurement of nitric oxide in brain tissue. <i>Biosensors and Bioelectronics</i> , 2008, 24, 704-709.	10.1	52
8	Nitric Oxide Inactivation Mechanisms in the Brain: Role in Bioenergetics and Neurodegeneration. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-13.	2.5	36
9	Nitric oxide signaling in the brain: translation of dynamics into respiration control and neurovascular coupling. <i>Annals of the New York Academy of Sciences</i> , 2012, 1259, 10-18.	3.8	36
10	Age-Dependent Impairment of Neurovascular and Neurometabolic Coupling in the Hippocampus. <i>Frontiers in Physiology</i> , 2018, 9, 913.	2.8	36
11	LDL Isolated from Plasma-Loaded Red Wine Procyanidins Resist Lipid Oxidation and Tocopherol Depletion. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3798-3804.	5.2	33
12	The pattern of glutamate-induced nitric oxide dynamics in vivo and its correlation with nNOS expression in rat hippocampus, cerebral cortex and striatum. <i>Brain Research</i> , 2014, 1554, 1-11.	2.2	32
13	Evidence for a pathway that facilitates nitric oxide diffusion in the brain. <i>Neurochemistry International</i> , 2011, 59, 90-96.	3.8	31
14	Age-dependent changes in the glutamate-nitric oxide pathway in the hippocampus of the triple transgenic model of Alzheimer's disease: implications for neurometabolic regulation. <i>Neurobiology of Aging</i> , 2016, 46, 84-95.	3.1	30
15	Ceramic-Based Multisite Platinum Microelectrode Arrays: Morphological Characteristics and Electrochemical Performance for Extracellular Oxygen Measurements in Brain Tissue. <i>Analytical Chemistry</i> , 2017, 89, 1674-1683.	6.5	29
16	Neurometabolic and electrophysiological changes during cortical spreading depolarization: multimodal approach based on a lactate-glucose dual microbiosensor arrays. <i>Scientific Reports</i> , 2017, 7, 6764.	3.3	29
17	Effects of natural prenylated flavones in the phenotypical ER (+) MCF-7 and ER ( $\hat{\alpha}$ ) MDA-MB-231 human breast cancer cells. <i>Toxicology Letters</i> , 2006, 164, 24-36.	0.8	28
18	In vivo modulation of nitric oxide concentration dynamics upon glutamatergic neuronal activation in the hippocampus. <i>Hippocampus</i> , 2011, 21, 622-630.	1.9	28

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19	Microelectrode array biosensor for high-resolution measurements of extracellular glucose in the brain. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 298-307.	7.8	26
20	Nitric Oxide Pathways in Neurovascular Coupling Under Normal and Stress Conditions in the Brain: Strategies to Rescue Aberrant Coupling and Improve Cerebral Blood Flow. <i>Frontiers in Physiology</i> , 2021, 12, 729201.	2.8	26
21	Neurovascular and neurometabolic derailment in aging and Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 103.	3.4	24
22	Brain Nitric Oxide Inactivation Is Governed by the Vasculature. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1011-1021.	5.4	22
23	Combined in Vivo Amperometric Oximetry and Electrophysiology in a Single Sensor: A Tool for Epilepsy Research. <i>Analytical Chemistry</i> , 2017, 89, 12383-12390.	6.5	22
24	The bioactivity of neuronal-derived nitric oxide in aging and neurodegeneration: Switching signaling to degeneration. <i>Free Radical Biology and Medicine</i> , 2021, 162, 500-513.	2.9	20
25	Age-Associated Changes of Nitric Oxide Concentration Dynamics in the Central Nervous System of Fisher 344 Rats. <i>Cellular and Molecular Neurobiology</i> , 2015, 35, 33-44.	3.3	19
26	Concurrent measurements of neurochemical and electrophysiological activity with microelectrode arrays: New perspectives for constant potential amperometry. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 129-140.	4.8	18
27	Platinized carbon fiber-based glucose microbiosensor designed for metabolic studies in brain slices. <i>Bioelectrochemistry</i> , 2019, 130, 107325.	4.6	18
28	Coupling of ascorbate and nitric oxide dynamics in vivo in the rat hippocampus upon glutamatergic neuronal stimulation: A novel functional interplay. <i>Brain Research Bulletin</i> , 2015, 114, 13-19.	3.0	15
29	A High Fat/Cholesterol Diet Recapitulates Some Alzheimer's Disease-Like Features in Mice: Focus on Hippocampal Mitochondrial Dysfunction. <i>Journal of Alzheimer's Disease</i> , 2021, 82, 1619-1633.	2.6	15
30	Analysis of respiratory capacity in brain tissue preparations: high-resolution respirometry for intact hippocampal slices. <i>Analytical Biochemistry</i> , 2018, 551, 43-50.	2.4	11
31	The Peculiar Facets of Nitric Oxide as a Cellular Messenger: From Disease-Associated Signaling to the Regulation of Brain Bioenergetics and Neurovascular Coupling. <i>Neurochemical Research</i> , 2021, 46, 64-76.	3.3	11
32	Self-mixing microprobe for monitoring microvascular perfusion in rat brain. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 103-112.	2.8	6
33	Neurovascular Coupling Mediated by Neuronal Derived-Nitric Oxide: Mechanisms in Health and Dysfunction with Impact on Aging and Alzheimer's Disease. , 2016, , 289-308.		2
34	Microelectrode Sensor for Real-Time Measurements of Nitrite in the Living Brain, in the Presence of Ascorbate. <i>Biosensors</i> , 2021, 11, 277.	4.7	2
35	Neurovascular coupling mediated by neuronal nitric oxide in hippocampus and the redox cycle of ascorbate and nitrite. <i>Free Radical Biology and Medicine</i> , 2018, 128, S132.	2.9	0
36	Concurrent recording of neurometabolic changes and local field potential in the central nervous system of awake-behaving rodent models of epilepsy. <i>Annals of Medicine</i> , 2024, 51, 24-24.	3.8	0

#	ARTICLE	IF	CITATIONS
37	Disruption of neurovascular coupling in a rodent model of vascular dementia “ can we rescue it by nitrate supplementation?. Free Radical Biology and Medicine, 2021, 165, 51.	2.9	0