

Ramn Soto-Otero

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

2,135
citations

28
h-index

46
g-index

47
ext. papers

2,325
ext. citations

5.1
avg, IF

4.21
L-index

#	Paper	IF	Citations
46	Autoxidation and neurotoxicity of 6-hydroxydopamine in the presence of some antioxidants: potential implication in relation to the pathogenesis of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2000 , 74, 1605-12	6	233
45	A QSAR model for in silico screening of MAO-A inhibitors. Prediction, synthesis, and biological assay of novel coumarins. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 1149-56	8.3	120
44	Autoxidation and MAO-mediated metabolism of dopamine as a potential cause of oxidative stress: role of ferrous and ferric ions. <i>Neurochemistry International</i> , 2004 , 45, 103-16	4.4	120
43	Effects of (-)-nicotine and (-)-cotinine on 6-hydroxydopamine-induced oxidative stress and neurotoxicity: relevance for Parkinson's disease. <i>Biochemical Pharmacology</i> , 2002 , 64, 125-35	6	100
42	Structural insights into monoamine oxidase inhibitory potency and selectivity of 7-substituted coumarins from ligand- and target-based approaches. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 4912-25	8.3	92
41	Angiotensin type-1-receptor antagonists reduce 6-hydroxydopamine toxicity for dopaminergic neurons. <i>Neurobiology of Aging</i> , 2007 , 28, 555-67	5.6	84
40	Discovery of a novel class of potent coumarin monoamine oxidase B inhibitors: development and biopharmacological profiling of 7-[(3-chlorobenzyl)oxy]-4-[(methylamino)methyl]-2H-chromen-2-one methanesulfonate (NW-1772)	8.3	83
39	Angiotensin-converting enzyme inhibition reduces oxidative stress and protects dopaminergic neurons in a 6-hydroxydopamine rat model of Parkinsonism. <i>Journal of Neuroscience Research</i> , 2005 , 81, 865-73	4.4	77
38	Structure-Based Design and Optimization of Multitarget-Directed 2H-Chromen-2-one Derivatives as Potent Inhibitors of Monoamine Oxidase B and Cholinesterases. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5561-78	8.3	71
37	Reduction of dopaminergic degeneration and oxidative stress by inhibition of angiotensin converting enzyme in a MPTP model of parkinsonism. <i>Neuropharmacology</i> , 2006 , 51, 112-20	5.5	68
36	Antioxidant properties of dimethyl sulfoxide and its viability as a solvent in the evaluation of neuroprotective antioxidants. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011 , 63, 209-15	1.7	66
35	Mitochondrial angiotensin receptors in dopaminergic neurons. Role in cell protection and aging-related vulnerability to neurodegeneration. <i>Cell Death and Disease</i> , 2016 , 7, e2427	9.8	65
34	Effects of aluminum and zinc on the oxidative stress caused by 6-hydroxydopamine autoxidation: relevance for the pathogenesis of Parkinson's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002 , 1586, 155-68	6.9	65
33	Exploring Basic Tail Modifications of Coumarin-Based Dual Acetylcholinesterase-Monoamine Oxidase B Inhibitors: Identification of Water-Soluble, Brain-Permeant Neuroprotective Multitarget Agents. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 6791-806	8.3	63
32	Brain oxidative stress and selective behaviour of aluminium in specific areas of rat brain: potential effects in a 6-OHDA-induced model of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2009 , 109, 879-88	6	59
31	Inhibition of brain monoamine oxidase activity by the generation of hydroxyl radicals: potential implications in relation to oxidative stress. <i>Life Sciences</i> , 2001 , 69, 879-89	6.8	53
30	Inhibition of brain monoamine oxidase by adducts of 1,2,3,4-tetrahydroisoquinoline with components of cigarette smoke. <i>Life Sciences</i> , 1997 , 60, 1719-27	6.8	51

29	In silico design of novel 2H-chromen-2-one derivatives as potent and selective MAO-B inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2015 , 89, 98-105	6.8	45
28	Analysis of brain regional distribution of aluminium in rats via oral and intraperitoneal administration. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007 , 21 Suppl 1, 31-4	4.1	43
27	Discovery, biological evaluation, and structure-activity and -selectivity relationships of 6Ysubstituted (E)-2-(benzofuran-3(2H)-ylidene)-N-methylacetamides, a novel class of potent and selective monoamine oxidase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 2651-64	8.3	42
26	Searching for Multi-Targeting Neurotherapeutics against Alzheimer's: Discovery of Potent AChE-MAO B Inhibitors through the Decoration of the 2H-Chromen-2-one Structural Motif. <i>Molecules</i> , 2016 , 21, 362	4.8	37
25	Time-course of brain oxidative damage caused by intrastriatal administration of 6-hydroxydopamine in a rat model of Parkinson's disease. <i>Neurochemical Research</i> , 2007 , 32, 99-105	4.6	36
24	In vitro inhibition of catalase activity by cigarette smoke: relevance for oxidative stress. <i>Journal of Applied Toxicology</i> , 1998 , 18, 443-8	4.1	35
23	Systemic administration of N-acetylcysteine protects dopaminergic neurons against 6-hydroxydopamine-induced degeneration. <i>Journal of Neuroscience Research</i> , 2004 , 76, 551-62	4.4	35
22	Fine molecular tuning at position 4 of 2H-chromen-2-one derivatives in the search of potent and selective monoamine oxidase B inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2013 , 70, 723-39	6.8	31
21	Synthesis and monoamine oxidase inhibitory activity of new pyridazine-, pyrimidine- and 1,2,4-triazine-containing tricyclic derivatives. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 5364-71	8.3	31
20	Differential toxicity of 6-hydroxydopamine in SH-SY5Y human neuroblastoma cells and rat brain mitochondria: protective role of catalase and superoxide dismutase. <i>Neurochemical Research</i> , 2012 , 37, 2150-60	4.6	28
19	Effect of iron and manganese on hydroxyl radical production by 6-hydroxydopamine: mediation of antioxidants. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 986-98	7.8	28
18	Ester derivatives of annulated tetrahydroazocines: a new class of selective acetylcholinesterase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 7205-12	3.4	25
17	Inhibition of 6-hydroxydopamine-induced oxidative damage by 4,5-dihydro-3H-2-benzazepine N-oxides. <i>Biochemical Pharmacology</i> , 2008 , 75, 1526-37	6	24
16	A simple method for isolating rat brain mitochondria with high metabolic activity: effects of EDTA and EGTA. <i>Journal of Neuroscience Methods</i> , 2013 , 213, 39-42	3	23
15	Reduction of rat brain levels of the endogenous dopaminergic proneurotoxins 1,2,3,4-tetrahydroisoquinoline and 1,2,3,4-tetrahydro-beta-carboline by cigarette smoke. <i>Neuroscience Letters</i> , 2001 , 298, 187-90	3.3	21
14	Studies on the interaction between 1,2,3,4-tetrahydro-beta-carboline and cigarette smoke: a potential mechanism of neuroprotection for Parkinson's disease. <i>Brain Research</i> , 1998 , 802, 155-62	3.7	20
13	Effects of Aluminium on Rat Brain Mitochondria Bioenergetics: an In vitro and In vivo Study. <i>Molecular Neurobiology</i> , 2017 , 54, 563-570	6.2	18
12	N-acetylcysteine enhances production of dopaminergic neurons from mesencephalic-derived precursor cells. <i>NeuroReport</i> , 2001 , 12, 3935-8	1.7	18

11	Copper increases the ability of 6-hydroxydopamine to generate oxidative stress and the ability of ascorbate and glutathione to potentiate this effect: potential implications in Parkinson's disease. <i>Journal of Neurochemistry</i> , 2017 , 141, 738-749	6	16
10	Study on the ability of 1,2,3,4-tetrahydropapaveroline to cause oxidative stress: Mechanisms and potential implications in relation to parkinson's disease. <i>Journal of Biochemical and Molecular Toxicology</i> , 2006 , 20, 209-20	3.4	16
9	Extracellular amino acids in the rat hippocampus during picrotoxin threshold seizures in chronic microdialysis experiments. <i>Neuroscience Letters</i> , 1998 , 248, 53-6	3.3	15
8	Copper Increases Brain Oxidative Stress and Enhances the Ability of 6-Hydroxydopamine to Cause Dopaminergic Degeneration in a Rat Model of Parkinson's Disease. <i>Molecular Neurobiology</i> , 2019 , 56, 2845-2854	6.2	14
7	Experimental spike-and-wave discharges induced by pentylenetetrazol and tolerance to repeated injections: an electrophysiological and biochemical study. <i>Epilepsy Research</i> , 1989 , 4, 139-46	3	14
6	The effect of storage conditions on the stability of carbamazepine and carbamazepine-10,11-epoxide in plasma. <i>Clinica Chimica Acta</i> , 1986 , 154, 243-6	6.2	14
5	2-Benzazepine nitrones protect dopaminergic neurons against 6-hydroxydopamine-induced oxidative toxicity. <i>Archiv Der Pharmazie</i> , 2012 , 345, 598-609	4.3	13
4	Interaction of 1,2,3,4-tetrahydroisoquinoline with some components of cigarette smoke: potential implications for Parkinson's Disease. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 222, 607-11	3.4	10
3	Simultaneous measurement of ethosuximide and phenobarbital in brain tissue, serum and urine by HPLC. <i>Biomedical Chromatography</i> , 1989 , 3, 49-52	1.7	7
2	8-Aminomethyl-7-hydroxy-4-methylcoumarins as Multitarget Leads for Alzheimer's Disease. <i>ChemistrySelect</i> , 2016 , 1, 2742-2749	1.8	5
1	Quantitative Determination of Uric Acid in Serum by Reversed-Phase Liquid Chromatography Using an Internal Standard. <i>Analytical Letters</i> , 1986 , 19, 1107-1119	2.2	1