

Alfonso Diaz

List of Publications by Year in descending order

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60
papers

1,633
citations

331670

21
h-index

315739

38
g-index

63
all docs

63
docs citations

63
times ranked

2134
citing authors

#	ARTICLE	IF	CITATIONS
1	Vanadium in Biological Action: Chemical, Pharmacological Aspects, and Metabolic Implications in Diabetes Mellitus. <i>Biological Trace Element Research</i> , 2019, 188, 68-98.	3.5	209
2	Alzheimer's disease and metabolic syndrome: A link from oxidative stress and inflammation to neurodegeneration. <i>Synapse</i> , 2017, 71, e21990.	1.2	131
3	Neuroprotective effect of alpha-asarone on spatial memory and nitric oxide levels in rats injected with amyloid- β (25-35). <i>Neuroscience Letters</i> , 2009, 453, 98-103.	2.1	86
4	A high calorie diet causes memory loss, metabolic syndrome and oxidative stress into hippocampus and temporal cortex of rats. <i>Synapse</i> , 2015, 69, 421-433.	1.2	73
5	Neuronal and brain morphological changes in animal models of schizophrenia. <i>Behavioural Brain Research</i> , 2016, 301, 190-203.	2.2	68
6	Antioxidant effects of Epicatechin on the hippocampal toxicity caused by Amyloid-beta 25-35 in rats. <i>European Journal of Pharmacology</i> , 2009, 616, 122-127.	3.5	67
7	A β 25-35 Injection into the Temporal Cortex Induces Chronic Inflammation that Contributes to Neurodegeneration and Spatial Memory Impairment in Rats. <i>Journal of Alzheimer's Disease</i> , 2012, 30, 505-522.	2.6	64
8	Amyloid- β 25-35 impairs memory and increases NO in the temporal cortex of rats. <i>Neuroscience Research</i> , 2009, 63, 129-137.	1.9	60
9	Vanadium and insulin: Partners in metabolic regulation. <i>Journal of Inorganic Biochemistry</i> , 2020, 208, 111094.	3.5	57
10	Aminoguanidine treatment ameliorates inflammatory responses and memory impairment induced by amyloid-beta 25-35 injection in rats. <i>Neuropeptides</i> , 2014, 48, 153-159.	2.2	50
11	The role of NOS in the impairment of spatial memory and damaged neurons in rats injected with amyloid beta 25-35 into the temporal cortex. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 98, 67-75.	2.9	49
12	Chronic administration of resveratrol prevents morphological changes in prefrontal cortex and hippocampus of aged rats. <i>Synapse</i> , 2016, 70, 206-217.	1.2	49
13	Curcuma treatment prevents cognitive deficit and alteration of neuronal morphology in the limbic system of aging rats. <i>Synapse</i> , 2017, 71, e21952.	1.2	30
14	Metabolic syndrome causes recognition impairments and reduced hippocampal neuronal plasticity in rats. <i>Journal of Chemical Neuroanatomy</i> , 2017, 82, 65-75.	2.1	28
15	The Administration of Cadmium for 2, 3 and 4 Months Causes a Loss of Recognition Memory, Promotes Neuronal Hypotrophy and Apoptosis in the Hippocampus of Rats. <i>Neurochemical Research</i> , 2019, 44, 485-497.	3.3	28
16	Energy Drink Administration in Combination with Alcohol Causes an Inflammatory Response and Oxidative Stress in the Hippocampus and Temporal Cortex of Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-9.	4.0	27
17	Neuroprotective effect of the aminoestrogen prolame against impairment of learning and memory skills in rats injected with amyloid- β 25-35 into the hippocampus. <i>European Journal of Pharmacology</i> , 2012, 685, 74-80.	3.5	24
18	Alteration of the sialylation pattern and memory deficits by injection of A β (25-35) into the hippocampus of rats. <i>Neuroscience Letters</i> , 2011, 495, 11-16.	2.1	23

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19	Unilateral injection of A β ₂₅₋₃₅ in the hippocampus reduces the number of dendritic spines in hyperglycemic rats. <i>Synapse</i> , 2014, 68, 585-594.	1.2	23
20	Changes on serum and hepatic lipidome after a chronic cadmium exposure in Wistar rats. <i>Archives of Biochemistry and Biophysics</i> , 2017, 635, 52-59.	3.0	23
21	Amphetamine sensitization alters hippocampal neuronal morphology and memory and learning behaviors. <i>Molecular Psychiatry</i> , 2021, 26, 4784-4794.	7.9	23
22	The amyloid- β ₂₅₋₃₅ injection into the CA1 region of the neonatal rat hippocampus impairs the long-term memory because of an increase of nitric oxide. <i>Neuroscience Letters</i> , 2010, 468, 151-155.	2.1	22
23	The neuropeptide- ϵ ₁₂ improves recognition memory and neuronal plasticity of the limbic system in old rats. <i>Synapse</i> , 2018, 72, e22036.	1.2	22
24	Gallic acid improves recognition memory and decreases oxidative-inflammatory damage in the rat hippocampus with metabolic syndrome. <i>Synapse</i> , 2021, 75, e22186.	1.2	22
25	The Effects of Non-selective Dopamine Receptor Activation by Apomorphine in the Mouse Hippocampus. <i>Molecular Neurobiology</i> , 2018, 55, 8625-8636.	4.0	20
26	Metabolic Syndrome Exacerbates the Recognition Memory Impairment and Oxidative-Inflammatory Response in Rats with an Intrahippocampal Injection of Amyloid Beta 1-42. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-13.	4.0	20
27	Pharmacological and Toxicological Threshold of Bisammonium Tetrakis 4-(<i>N,N</i> -Dimethylamino)pyridinium Decavanadate in a Rat Model of Metabolic Syndrome and Insulin Resistance. <i>Bioinorganic Chemistry and Applications</i> , 2018, 2018, 1-13.	4.1	20
28	The treatment of Goji berry (<i>Lycium barbarum</i>) improves the neuroplasticity of the prefrontal cortex and hippocampus in aged rats. <i>Journal of Nutritional Biochemistry</i> , 2020, 83, 108416.	4.2	19
29	The NOAEL Metformin Dose Is Ineffective against Metabolic Disruption Induced by Chronic Cadmium Exposure in Wistar Rats. <i>Toxics</i> , 2018, 6, 55.	3.7	18
30	Effects of metformin on recognition memory and hippocampal neuroplasticity in rats with metabolic syndrome. <i>Synapse</i> , 2020, 74, e22153.	1.2	17
31	Oral Subacute Exposure to Cadmium LOAEL Dose Induces Insulin Resistance and Impairment of the Hormonal and Metabolic Liver-Adipose Axis in Wistar Rats. <i>Biological Trace Element Research</i> , 2022, 200, 4370-4384.	3.5	17
32	The effects of amphetamine exposure on juvenile rats on the neuronal morphology of the limbic system at prepubertal, pubertal and postpubertal ages. <i>Journal of Chemical Neuroanatomy</i> , 2016, 77, 68-77.	2.1	16
33	The aminoestrogen prolame increases recognition memory and hippocampal neuronal spine density in aged mice. <i>Synapse</i> , 2017, 71, e21987.	1.2	15
34	Neuroinflammation induced by amyloid β ₂₅₋₃₅ modifies mucin-type O-glycosylation in the rat's hippocampus. <i>Neuropeptides</i> , 2018, 67, 56-62.	2.2	15
35	Epicatechin Reduces Spatial Memory Deficit Caused by Amyloid- β ₂₅₋₃₅ Toxicity Modifying the Heat Shock Proteins in the CA1 Region in the Hippocampus of Rats. <i>Antioxidants</i> , 2019, 8, 113.	5.1	15
36	Dendritic morphology changes in neurons from the ventral hippocampus, amygdala and nucleus accumbens in rats with neonatal lesions into the prefrontal cortex. <i>Synapse</i> , 2015, 69, 314-325.	1.2	13

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37	Antioxidative stress effect of epicatechin and catechin induced by A β 25 α 35 in rats and use of the electrostatic potential and the Fukui function as a tool to elucidate specific sites of interaction. <i>Neuropeptides</i> , 2016, 59, 89-95.	2.2	13
38	Atoyac River Pollution in the Metropolitan Area of Puebla, M \acute{a} xico. <i>Water (Switzerland)</i> , 2018, 10, 267.	2.7	13
39	A mixture of chamomile and star anise has anti-motility and antidiarrheal activities in mice. <i>Revista Brasileira De Farmacognosia</i> , 2014, 24, 419-424.	1.4	12
40	Stevia rebaudiana loaded titanium oxide nanomaterials as an antidiabetic agent in rats. <i>Revista Brasileira De Farmacognosia</i> , 2015, 25, 145-151.	1.4	12
41	Amyloid- β 25 α 35 induces a permanent phosphorylation of HSF-1, but a transitory and inflammation-independent overexpression of Hsp-70 in C6 astrocytoma cells. <i>Neuropeptides</i> , 2013, 47, 339-346.	2.2	11
42	Aortic dysfunction by chronic cadmium exposure is linked to multiple metabolic risk factors that converge in anion superoxide production. <i>Archives of Physiology and Biochemistry</i> , 2020, , 1-9.	2.1	11
43	Metforminium Decavanadate (MetfDeca) Treatment Ameliorates Hippocampal Neurodegeneration and Recognition Memory in a Metabolic Syndrome Model. <i>Neurochemical Research</i> , 2021, 46, 1151-1165.	3.3	10
44	Sodium metavanadate treatment improves glycogen levels in multiple tissues in a model of metabolic syndrome caused by chronic cadmium exposure in Wistar rats. <i>BioMetals</i> , 2021, 34, 245-258.	4.1	9
45	Resveratrol effects on neural connectivity during aging. <i>Neural Regeneration Research</i> , 2016, 11, 1067.	3.0	9
46	The Impact of Urbanization on Water Quality: Case Study on the Alto Atoyac Basin in Puebla, Mexico. <i>Sustainability</i> , 2022, 14, 667.	3.2	8
47	Effect of amyloid- β (25 α 35) in hyperglycemic and hyperinsulinemic rats, effects on phosphorylation and O-GlcNAcylation of tau protein. <i>Neuropeptides</i> , 2017, 63, 18-27.	2.2	7
48	Bexarotene treatment increases dendritic length in the nucleus accumbens without change in the locomotor activity and memory behaviors, in old mice. <i>Journal of Chemical Neuroanatomy</i> , 2020, 104, 101734.	2.1	7
49	Phenylbutyrate ameliorates prefrontal cortex, hippocampus, and nucleus accumbens neural atrophy as well as synaptophysin and GFAP stress in aging mice. <i>Synapse</i> , 2020, 74, e22177.	1.2	7
50	Curcumin induces cortico-hippocampal neuronal reshaping and memory improvements in aged mice. <i>Journal of Chemical Neuroanatomy</i> , 2022, 121, 102091.	2.1	7
51	Effect of cadmium administration on the antioxidant system and neuronal death in the hippocampus of rats. <i>Synapse</i> , 2022, 76, .	1.2	7
52	Natural products present neurotrophic properties in neurons of the limbic system in aging rodents. <i>Synapse</i> , 2021, 75, e22185.	1.2	6
53	Long-term effect of neonatal antagonism of ionotropic glutamate receptors on dendritic spines and cognitive function in rats. <i>Journal of Chemical Neuroanatomy</i> , 2022, 119, 102054.	2.1	5
54	Kidney Adaptations Prevent Loss of Trace Elements in Wistar Rats with Early Metabolic Syndrome. <i>Biological Trace Element Research</i> , 2021, 199, 1941-1953.	3.5	4

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55	Clinical monitored in subjects metabolically healthy and unhealthy before and during a SARS-CoV-2 infectionâ€” A cross-sectional study in Mexican population. <i>Cytokine</i> , 2022, 153, 155868.	3.2	4
56	The Câ€”terminal fragment of the heavy chain of the tetanus toxin (Hcâ€”TeTx) improves motor activity and neuronal morphology in the limbic system of aged mice. <i>Synapse</i> , 2021, 75, e22193.	1.2	2
57	Mixture of Toxic Metals and Volatile Organic Compounds in a River Induces Cytotoxicity. <i>Journal of Chemistry</i> , 2022, 2022, 1-9.	1.9	2
58	Inhibitory mechanism of 17 β -aminoestrogens in the formation of A β aggregates. <i>Journal of Molecular Modeling</i> , 2019, 25, 229.	1.8	1
59	Mapping afferent and pelvic postganglionic neurons of the urethra from female rats: The L6 DRG is the major primary afferent supplier. <i>Neurourology and Urodynamics</i> , 2021, 40, 1880-1888.	1.5	0
60	Sildenafil prevents right ventricular hypertrophy and improves heart rate variability in rats with pulmonary hypertension secondary to experimental diabetes. <i>Clinical and Experimental Hypertension</i> , 2022, 44, 355-365.	1.3	0