

Carlos Alexandre Netto

List of Publications by Year in descending order

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120
papers

4,230
citations

81839

39
h-index

133188

59
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121
all docs

121
docs citations

121
times ranked

5341
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple and fast densitometric method for the analysis of tyrosine hydroxylase immunoreactivity in the substantia nigra pars compacta and in the ventral tegmental area. <i>Brain Research Protocols</i> , 2005, 16, 58-64.	1.7	157
2	Preconditioning prevents the inhibition of Na ⁺ ,K ⁺ -ATPase activity after brain ischemia. <i>Neurochemical Research</i> , 2000, 25, 971-975.	1.6	138
3	Chronic brain hypoperfusion causes early glial activation and neuronal death, and subsequent long-term memory impairment. <i>Brain Research Bulletin</i> , 2012, 87, 109-116.	1.4	135
4	Ketogenic diet increases glutathione peroxidase activity in rat hippocampus. <i>Neurochemical Research</i> , 2003, 28, 1793-1797.	1.6	120
5	Forced treadmill exercise prevents oxidative stress and memory deficits following chronic cerebral hypoperfusion in the rat. <i>Neurobiology of Learning and Memory</i> , 2012, 97, 90-96.	1.0	119
6	Effects of daily environmental enrichment on memory deficits and brain injury following neonatal hypoxia-ischemia in the rat. <i>Neurobiology of Learning and Memory</i> , 2007, 87, 101-108.	1.0	115
7	Treadmill exercise induces age-related changes in aversive memory, neuroinflammatory and epigenetic processes in the rat hippocampus. <i>Neurobiology of Learning and Memory</i> , 2013, 101, 94-102.	1.0	113
8	Neonatal cerebral hypoxia-ischemia causes lateralized memory impairments in the adult rat. <i>Brain Research</i> , 2003, 973, 171-178.	1.1	96
9	Total antioxidant capacity is impaired in different structures from aged rat brain. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 663-671.	0.7	95
10	Effects of daily environmental enrichment on behavior and dendritic spine density in hippocampus following neonatal hypoxia-ischemia in the rat. <i>Experimental Neurology</i> , 2013, 241, 25-33.	2.0	95
11	Ageing affects oxidative state in hippocampus, hypothalamus and adrenal glands of Wistar rats. <i>Life Sciences</i> , 2005, 78, 271-278.	2.0	94
12	Sex-dependent consequences of neonatal brain hypoxia-ischemia in the rat. <i>Journal of Neuroscience Research</i> , 2017, 95, 409-421.	1.3	84
13	Resveratrol prevents oxidative stress and inhibition of Na ⁺ K ⁺ -ATPase activity induced by transient global cerebral ischemia in rats. <i>Journal of Nutritional Biochemistry</i> , 2011, 22, 921-928.	1.9	80
14	Early enriched housing results in partial recovery of memory deficits in female, but not in male, rats after neonatal hypoxia-ischemia. <i>Brain Research</i> , 2008, 1218, 257-266.	1.1	79
15	Astroglial and cognitive effects of chronic cerebral hypoperfusion in the rat. <i>Brain Research</i> , 2009, 1251, 204-212.	1.1	79
16	Agmatine induces anxiolysis in the elevated plus maze task in adult rats. <i>Behavioural Brain Research</i> , 2003, 141, 19-24.	1.2	74
17	Behavioral and neurochemical effects of proline. <i>Metabolic Brain Disease</i> , 2011, 26, 159-172.	1.4	73
18	Differential effect of posttraining naloxone, β -endorphin, leu-enkephalin and electroconvulsive shock administration upon memory of an open-field habituation and of a water-finding task. <i>Psychoneuroendocrinology</i> , 1986, 11, 437-446.	1.3	70

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19	Chronic hyperhomocysteinemia provokes a memory deficit in rats in the Morris water maze task. <i>Behavioural Brain Research</i> , 2004, 153, 377-381.	1.2	64
20	Effect of a neuroprotective exercise protocol on oxidative state and BDNF levels in the rat hippocampus. <i>Brain Research</i> , 2008, 1188, 182-188.	1.1	64
21	Repeated Restraint Stress Alters Hippocampal Glutamate Uptake and Release in the Rat. <i>Neurochemical Research</i> , 2004, 29, 1703-1709.	1.6	62
22	Resveratrol preconditioning modulates inflammatory response in the rat hippocampus following global cerebral ischemia. <i>Neurochemistry International</i> , 2012, 61, 659-665.	1.9	61
23	Ascorbic acid prevents cognitive deficits caused by chronic administration of propionic acid to rats in the water maze. <i>Pharmacology Biochemistry and Behavior</i> , 2002, 73, 623-629.	1.3	60
24	Exercise intensity influences cell injury in rat hippocampal slices exposed to oxygen and glucose deprivation. <i>Brain Research Bulletin</i> , 2006, 71, 155-159.	1.4	58
25	Arginine administration inhibits hippocampal Na ⁺ ,K ⁺ -ATPase activity and impairs retention of an inhibitory avoidance task in rats. <i>Brain Research</i> , 2002, 951, 151-157.	1.1	56
26	<i>Ptychopetalum olacoides</i> , a traditional Amazonian "nerve tonic", possesses anticholinesterase activity. <i>Pharmacology Biochemistry and Behavior</i> , 2003, 75, 645-650.	1.3	56
27	Environmental enrichment prevents behavioral deficits and oxidative stress caused by chronic cerebral hypoperfusion in the rat. <i>Life Sciences</i> , 2012, 91, 29-36.	2.0	56
28	Incorporation in polymeric nanocapsules improves the antioxidant effect of melatonin against lipid peroxidation in mice brain and liver. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 64-71.	2.0	55
29	Vitamins E and C pretreatment prevents ovariectomy-induced memory deficits in water maze. <i>Neurobiology of Learning and Memory</i> , 2005, 84, 192-199.	1.0	52
30	Long-term effects of environmental stimulation following hypoxia-induced ischemia on the oxidative state and BDNF levels in rat hippocampus and frontal cortex. <i>Brain Research</i> , 2009, 1247, 188-195.	1.1	52
31	Tactile stimulation and maternal separation prevent hippocampal damage in rats submitted to neonatal hypoxia-induced ischemia. <i>Brain Research</i> , 2004, 1002, 94-99.	1.1	50
32	Effect of treadmill exercise on cell damage in rat hippocampal slices submitted to oxygen and glucose deprivation. <i>Brain Research</i> , 2007, 1157, 121-125.	1.1	49
33	Neonatal hypoxia-induced ischemia induces sex-related changes in rat brain mitochondria. <i>Mitochondrion</i> , 2012, 12, 271-279.	1.6	48
34	Estradiol Protects Against Oxygen and Glucose Deprivation in Rat Hippocampal Organotypic Cultures and Activates Akt and Inactivates GSK-3?. <i>Neurochemical Research</i> , 2005, 30, 191-199.	1.6	47
35	Coumestrol has neuroprotective effects before and after global cerebral ischemia in female rats. <i>Brain Research</i> , 2012, 1474, 82-90.	1.1	45
36	Stem Cells from Human Exfoliated Deciduous Teeth Modulate Early Astrocyte Response after Spinal Cord Contusion. <i>Molecular Neurobiology</i> , 2019, 56, 748-760.	1.9	44

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37	Chronic bilateral common carotid artery occlusion: a model for ocular ischemic syndrome in the rat. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 244, 199-204.	1.0	43
38	Amyloid- β induced toxicity involves ganglioside expression and is sensitive to GM1 neuroprotective action. Neurochemistry International, 2011, 59, 648-655.	1.9	43
39	Chronic Hyperhomocysteinemia Increases Inflammatory Markers in Hippocampus and Serum of Rats. Neurochemical Research, 2012, 37, 1660-1669.	1.6	41
40	Treadmill running prevents age-related memory deficit and alters neurotrophic factors and oxidative damage in the hippocampus of Wistar rats. Behavioural Brain Research, 2017, 334, 78-85.	1.2	40
41	Effects of pre- and postnatal protein malnutrition in hypoxic-ischemic rats. Brain Research, 2012, 1438, 85-92.	1.1	39
42	Behavior outcome after ischemic and hemorrhagic stroke, with similar brain damage, in rats. Behavioural Brain Research, 2013, 244, 82-89.	1.2	39
43	Interaction between consecutive learnings: inhibitory avoidance and habituation. Behavioral and Neural Biology, 1985, 44, 515-520.	2.3	37
44	In vivo and in vitro effects of homocysteine on Na ⁺ , K ⁺ -ATPase activity in parietal, prefrontal and cingulate cortex of young rats. International Journal of Developmental Neuroscience, 2004, 22, 185-190.	0.7	35
45	Acute and repeated restraint stress influences cellular damage in rat hippocampal slices exposed to oxygen and glucose deprivation. Brain Research Bulletin, 2005, 65, 443-450.	1.4	34
46	The brain β -endorphin system and behavior: The modulation of consecutively and simultaneously processed memories. Behavioral and Neural Biology, 1985, 44, 249-265.	2.3	31
47	Age-related susceptibility to oxygen and glucose deprivation damage in rat hippocampal slices. Brain Research, 2004, 1025, 226-230.	1.1	31
48	Astrocyte morphology after ischemic and hemorrhagic experimental stroke has no influence on the different recovery patterns. Behavioural Brain Research, 2015, 278, 257-261.	1.2	31
49	α -Tocopherol and ascorbic acid prevent memory deficits provoked by chronic hyperprolinemia in rats. Behavioural Brain Research, 2006, 168, 185-189.	1.2	30
50	Running exercise effects on spatial and avoidance tasks in ovariectomized rats. Neurobiology of Learning and Memory, 2010, 94, 312-317.	1.0	30
51	Effects of chronic guanosine treatment on hippocampal damage and cognitive impairment of rats submitted to chronic cerebral hypoperfusion. Neurological Sciences, 2012, 33, 985-997.	0.9	29
52	Ascorbic acid prevents water maze behavioral deficits caused by early postnatal methylmalonic acid administration in the rat. Brain Research, 2003, 976, 234-242.	1.1	28
53	An ultrastructural study of cell death in the CA1 pyramidal field of the hippocampus in rats submitted to transient global ischemia followed by reperfusion. Journal of Anatomy, 2007, 211, 589-599.	0.9	28
54	Exercise effects on activities of Na ⁺ , K ⁺ -ATPase, acetylcholinesterase and adenine nucleotides hydrolysis in ovariectomized rats. Brain Research, 2009, 1302, 248-255.	1.1	27

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55	Mesenchymal Stem Cell Adherence on Poly(D, L-Lactide-Co-Glycolide) Nanofibers Scaffold is Integrin- α 1 Receptor Dependent. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 211-218.	0.5	27
56	The Effects of Estradiol on Estrogen Receptor and Glutamate Transporter Expression in Organotypic Hippocampal Cultures Exposed to Oxygen-Glucose Deprivation. <i>Neurochemical Research</i> , 2006, 31, 483-490.	1.6	26
57	Foetal grafts from hippocampal regio superior alleviate ischaemic-induced behavioral deficits. <i>Behavioural Brain Research</i> , 1993, 58, 107-112.	1.2	25
58	Chronic Hyperprolinemia Provokes a Memory Deficit in the Morris Water Maze Task. <i>Metabolic Brain Disease</i> , 2005, 20, 73-80.	1.4	25
59	Sulfite increases lipoperoxidation and decreases the activity of catalase in brain of rats. <i>Metabolic Brain Disease</i> , 2008, 23, 123-132.	1.4	24
60	Folic Acid Prevents Behavioral Impairment and Na ⁺ ,K ⁺ -ATPase Inhibition Caused by Neonatal Hypoxia-Ischemia. <i>Neurochemical Research</i> , 2012, 37, 1624-1630.	1.6	24
61	Poly (lactide-co-glycolide) (PLGA) Scaffold Induces Short-term Nerve Regeneration and Functional Recovery Following Sciatic Nerve Transection in Rats. <i>Neuroscience</i> , 2019, 396, 94-107.	1.1	24
62	Phytoestrogen coumestrol attenuates brain mitochondrial dysfunction and long-term cognitive deficits following neonatal hypoxia-ischemia. <i>International Journal of Developmental Neuroscience</i> , 2019, 79, 86-95.	0.7	23
63	Intrastriatal Hypoxanthine Reduces Na ⁺ ,K ⁺ -ATPase Activity and Induces Oxidative Stress in the Rats. <i>Metabolic Brain Disease</i> , 2007, 22, 1-11.	1.4	22
64	Coumestrol treatment prevents Na ⁺ , K ⁺ -ATPase inhibition and affords histological neuroprotection to male rats receiving cerebral global ischemia. <i>Neurological Research</i> , 2014, 36, 198-206.	0.6	22
65	Lactate Administration Reduces Brain Injury and Ameliorates Behavioral Outcomes Following Neonatal Hypoxia-Ischemia. <i>Neuroscience</i> , 2020, 448, 191-205.	1.1	21
66	Nucleotide hydrolysis in rats submitted to global cerebral ischemia: A possible link between preconditioning and adenosine production. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 1998, 7, 281-286.	0.7	20
67	Behavioral benefits of maternal swimming are counteracted by neonatal hypoxia-ischemia in the offspring. <i>Behavioural Brain Research</i> , 2016, 312, 30-38.	1.2	20
68	Chronic methylphenidate administration alters antioxidant defenses and butyrylcholinesterase activity in blood of juvenile rats. <i>Molecular and Cellular Biochemistry</i> , 2012, 361, 281-288.	1.4	19
69	Resveratrol prevents global cerebral ischemia-induced decrease in lipid content. <i>Neurological Research</i> , 2013, 35, 59-64.	0.6	18
70	Intrastriatal injection of hypoxanthine reduces striatal serotonin content and impairs spatial memory performance in rats. <i>Metabolic Brain Disease</i> , 2007, 22, 67-76.	1.4	17
71	Effect of maternal exercise on biochemical parameters in rats submitted to neonatal hypoxia-ischemia. <i>Brain Research</i> , 2015, 1622, 91-101.	1.1	17
72	Effect of hypoxanthine on Na ⁺ ,K ⁺ -ATPase activity and some parameters of oxidative stress in rat striatum. <i>Brain Research</i> , 2005, 1041, 198-204.	1.1	16

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73	Skilled forelimb reaching in Wistar rats: Evaluation by means of Montoya staircase test. <i>Journal of Neuroscience Methods</i> , 2009, 177, 115-121.	1.3	16
74	Lifetime behavioural changes after exposure to anaesthetics in infant rats. <i>Behavioural Brain Research</i> , 2011, 218, 51-56.	1.2	16
75	Synergistic Toxicity of the Neurometabolites Quinolinic Acid and Homocysteine in Cortical Neurons and Astrocytes: Implications in Alzheimer's Disease. <i>Neurotoxicity Research</i> , 2018, 34, 147-163.	1.3	16
76	Dual action of post-training naloxone on memory. <i>Behavioral and Neural Biology</i> , 1990, 53, 140-146.	2.3	15
77	Acute and chronic stress alter ecto-nucleotidase activities in synaptosomes from the rat hippocampus. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 78, 341-347.	1.3	14
78	Time-dependent effects of treadmill exercise on aversive memory and cyclooxygenase pathway function. <i>Neurobiology of Learning and Memory</i> , 2012, 98, 182-187.	1.0	14
79	Effect of skilled and unskilled training on nerve regeneration and functional recovery. <i>Brazilian Journal of Medical and Biological Research</i> , 2012, 45, 753-762.	0.7	14
80	Perturbations in the thiol homeostasis following neonatal cerebral hypoxia-ischemia in rats. <i>Neuroscience Letters</i> , 2003, 345, 65-68.	1.0	13
81	Neuroprotection and Protein Damage Prevention by Estradiol Replacement in Rat Hippocampal Slices Exposed to Oxygen-Glucose Deprivation. <i>Neurochemical Research</i> , 2005, 30, 583-589.	1.6	13
82	Hyperhomocysteinemia increases damage on brain slices exposed to in vitro model of oxygen and glucose deprivation: prevention by folic acid. <i>International Journal of Developmental Neuroscience</i> , 2006, 24, 285-291.	0.7	13
83	An ultrastructural analysis of cellular death in the CA1 field in the rat hippocampus after transient forebrain ischemia followed by 2, 4 and 10 days of reperfusion. <i>Anatomy and Embryology</i> , 2006, 211, 423-434.	1.5	13
84	Effects of neonatal cerebral hypoxia-ischemia on the in vitro phosphorylation of synapsin 1 in rat synaptosomes. <i>Neurochemical Research</i> , 1999, 24, 1263-1269.	1.6	12
85	Folic Acid Can Contribute to Memory Deficit and Na ⁺ , K ⁺ ATPase Failure in the Hippocampus of Adolescent Rats Submitted to Hypoxia- Ischemia. <i>CNS and Neurological Disorders - Drug Targets</i> , 2016, 15, 64-72.	0.8	12
86	Repeated stress effects on nociception and on ectonucleotidase activities in spinal cord synaptosomes of female rats. <i>Physiology and Behavior</i> , 2005, 85, 213-219.	1.0	11
87	Chronic early postnatal administration of ethylmalonic acid to rats causes behavioral deficit. <i>Behavioural Brain Research</i> , 2009, 197, 364-370.	1.2	11
88	Long-term effects of pre and post-ischemic exercise following global cerebral ischemia on astrocyte and microglia functions in hippocampus from Wistar rats. <i>Brain Research</i> , 2014, 1587, 119-126.	1.1	11
89	Chronic early postnatal glutaric acid administration causes cognitive deficits in the water maze. <i>Behavioural Brain Research</i> , 2008, 187, 411-416.	1.2	10
90	Ascorbate uptake is decreased in the hippocampus of ageing rats. <i>Neurochemistry International</i> , 2011, 58, 527-532.	1.9	10

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91	D-Galactose Causes Motor Coordination Impairment, and Histological and Biochemical Changes in the Cerebellum of Rats. <i>Molecular Neurobiology</i> , 2017, 54, 4127-4137.	1.9	10
92	Plantar stimulation in parkinsonians: From biomarkers to mobility â€“ randomized-controlled trial. <i>Restorative Neurology and Neuroscience</i> , 2018, 36, 195-205.	0.4	10
93	Long-Lasting Actions of Progesterone Protect the Neonatal Brain Following Hypoxia-Ischemia. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 1417-1428.	1.7	10
94	Long-term changes in metabolic brain network drive memory impairments in rats following neonatal hypoxia-ischemia. <i>Neurobiology of Learning and Memory</i> , 2020, 171, 107207.	1.0	10
95	Glial fibrillary acidic protein levels are associated with global histone H4 acetylation after spinal cord injury in rats. <i>Neural Regeneration Research</i> , 2018, 13, 1945.	1.6	10
96	Evaluation of the effect of chronic administration of drugs on rat behavior in the water maze task. <i>Brain Research Protocols</i> , 2003, 12, 109-115.	1.7	9
97	Homocysteine increases neuronal damage in hippocampal slices receiving oxygen and glucose deprivation. <i>Metabolic Brain Disease</i> , 2006, 21, 273-278.	1.4	9
98	Biochemical effects of pretreatment with vitamins E and C in rats submitted to intrastriatal hypoxanthine administration. <i>Neurochemistry International</i> , 2008, 52, 1276-1283.	1.9	9
99	Forced Treadmill Exercise Prevents Spatial Memory Deficits in Aged Rats Probably Through the Activation of Na ⁺ , K ⁺ -ATPase in the Hippocampus. <i>Neurochemical Research</i> , 2017, 42, 1422-1429.	1.6	9
100	Vitamin D3 Reverses the Hippocampal Cytoskeleton Imbalance But Not Memory Deficits Caused by Ovariectomy in Adult Wistar Rats. <i>NeuroMolecular Medicine</i> , 2017, 19, 345-356.	1.8	9
101	Experimental neonatal hypoxia ischemia causes long lasting changes of oxidative stress parameters in the hippocampus and the spleen. <i>Journal of Perinatal Medicine</i> , 2018, 46, 433-439.	0.6	9
102	Taste modulation of nociception differently affects chronically stressed rats. <i>Physiology and Behavior</i> , 2004, 80, 557-561.	1.0	8
103	Intrastriatal hypoxanthine administration affects Na ⁺ , K ⁺ -ATPase, acetylcholinesterase and catalase activities in striatum, hippocampus and cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2006, 24, 411-417.	0.7	7
104	Neonatal hypoxicâ€“ischemic encephalopathy reduces c-Fos activation in the rat hippocampus: evidence of a longâ€“lasting effect. <i>International Journal of Developmental Neuroscience</i> , 2014, 38, 213-222.	0.7	7
105	Intracerebroventricular D-Galactose administration impairs memory and alters activity and expression of acetylcholinesterase in the rat. <i>International Journal of Developmental Neuroscience</i> , 2016, 50, 1-6.	0.7	7
106	Intracardiac Injection of Dental Pulp Stem Cells After Neonatal Hypoxia-Ischemia Prevents Cognitive Deficits in Rats. <i>Neurochemical Research</i> , 2018, 43, 2268-2276.	1.6	7
107	Galantamine improves functional recovery and reduces lesion size in a rat model of spinal cord injury. <i>Brain Research</i> , 2019, 1724, 146424.	1.1	7
108	Arundic acid (ONO-2526) inhibits stimulated-S100B secretion in inflammatory conditions. <i>Neuroscience Letters</i> , 2021, 751, 135776.	1.0	7

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109	Stress regulates the lymphocyte homing receptor CD62L (L-selectin). <i>Arquivos De Neuro-Psiquiatria</i> , 2003, 61, 20-24.	0.3	6
110	Homocysteine reduces cholinesterase activity in rat and human serum. <i>International Journal of Developmental Neuroscience</i> , 2007, 25, 201-205.	0.7	5
111	Intrastriatal injection of hypoxanthine impairs memory formation of step-down inhibitory avoidance task in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2008, 90, 594-597.	1.3	5
112	Astrocytes in the cerebral cortex play a role in the spontaneous motor recovery following experimental striatal hemorrhage. <i>Neural Regeneration Research</i> , 2018, 13, 67.	1.6	5
113	Pre- and early postnatal enriched environmental experiences prevent neonatal hypoxia-ischemia late neurodegeneration via metabolic and neuroplastic mechanisms. <i>Journal of Neurochemistry</i> , 2021, 157, 1911-1929.	2.1	4
114	Neurometabolic effects of sweetened solution intake during adolescence related to depressive-like phenotype in rats. <i>Nutrition</i> , 2020, 75-76, 110770.	1.1	3
115	Role of Brain β -endorphin in Memory Modulation Revisited. <i>Neuroscience</i> , 2022, 497, 30-38.	1.1	3
116	Effects of acrobatic training on spatial memory and astrocytic scar in CA1 subfield of hippocampus after chronic cerebral hypoperfusion in male and female rats. <i>Behavioural Brain Research</i> , 2022, 430, 113935.	1.2	3
117	Effect of corporal suspension and pendulum exercises on neuromuscular properties and functionality in patients with medullar thoracic injury. <i>Clinical Biomechanics</i> , 2019, 63, 214-220.	0.5	2
118	Coumestrol pre-treatment improves spatial learning and memory deficits following transient cerebral ischemia recruiting hippocampal GluR2 AMPA receptors. <i>Hippocampus</i> , 2022, 32, 413-418.	0.9	2
119	Therapeutic hypothermia for the treatment of neonatal hypoxia-ischemia: sex-dependent modulation of reactive astrogliosis. <i>Metabolic Brain Disease</i> , 2022, 37, 2315-2329.	1.4	2
120	A tribute to Professor Ivan Izquierdo. <i>Jornal Brasileiro De Psiquiatria</i> , 2021, 70, 89-90.	0.2	0