Eduardo R Rigon Zimmer

List of Publications by Year
in descending order

84 papers	3,701 citations	159525 30 h-index	149623 56 g-index
93 all docs	93 docs citations	93 times ranked	5023 citing authors

#	Article	IF	Citations
1	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
2	[18F]FDG PET signal is driven by astroglial glutamate transport. Nature Neuroscience, 2017, 20, 393-395.	7.1	232
3	Differences Between Plasma and Cerebrospinal Fluid Glial Fibrillary Acidic Protein Levels Across the Alzheimer Disease Continuum. JAMA Neurology, 2021, 78, 1471.	4.5	204
4	Astrocyte Biomarkers in Alzheimerâ€™s Disease. Trends in Molecular Medicine, 2019, 25, 77-95.	3.5	203
5	Cholinergic Differentiation of Human Neuroblastoma SH-SY5Y Cell Line and Its Potential Use as an In vitro Model for Alzheimerâ€™s Disease Studies. Molecular Neurobiology, 2019, 56, 7355-7367.	1.9	118
6	Tracking neuroinflammation in Alzheimerâ€™s disease: the role of positron emission tomography imaging. Journal of Neuroinflammation, 2014, 11, 120.	3.1	89
7	Alzheimerâ€™s disease master regulators analysis: search for potential molecular targets and drug repositioning candidates. Alzheimer's Research and Therapy, 2018, 10, 59.	3.0	80
8	Astrocyte Biomarkers in Alzheimer Disease. Neurology, 2021, 96, .	1.5	70
9	Reduced brain insulin-like growth factor I function during aging. Molecular and Cellular Neurosciences, 2012, 49, 9-12.	1.0	67
10	Exercise increases insulin signaling in the hippocampus: Physiological effects and pharmacological impact of intracerebroventricular insulin administration in mice. Hippocampus, 2011, 21, 1082-1092.	0.9	66
11	Cerebrospinal fluid p-tau231 as an early indicator of emerging pathology in Alzheimer's disease. EBioMedicine, 2022, 76, 103836.	2.7	65
12	Stage-specific links between plasma neurofilament light and imaging biomarkers of Alzheimerâ€™s disease. Brain, 2020, 143, 3793-3804.	3.7	60
13	Guanosine Anxiolytic-Like Effect Involves Adenosinergic and Glutamatergic Neurotransmitter Systems. Molecular Neurobiology, 2017, 54, 423-436.	1.9	55
14	Synaptic vesicle protein 2A as a potential biomarker in synaptopathies. Molecular and Cellular Neurosciences, 2019, 97, 34-42.	1.0	55
15	Consequences of Metabolic Disruption in Alzheimer's Disease Pathology. Neurotherapeutics, 2019, 16, 600-610.	2.1	51
16	Amyloidâ€Î²2 oligomers in cellular models of Alzheimerâ€™s disease. Journal of Neurochemistry, 2020, 155, 348-369.	2.1	50
17	The accuracy and robustness of plasma biomarker models for amyloid PET positivity. Alzheimer's Research and Therapy, 2022, 14, 26.	3.0	49
18	Plasma neurofilament light associates with Alzheimer's disease metabolic decline in amyloidâ€positive individuals. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 679-689.	1.2	48

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19	Developments in Tau PET Imaging. Canadian Journal of Neurological Sciences, 2014, 41, 547-553.	0.3	45
20	The astrocyte biochemistry. Seminars in Cell and Developmental Biology, 2019, 95, 142-150.	2.3	45
21	Multimodal Imaging in Rat Model Recapitulates Alzheimer's Disease Biomarkers Abnormalities. Journal of Neuroscience, 2017, 37, 12263-12271.	1.7	44
22	Elevated glutamate and lactate predict brain death after severe head trauma. Annals of Clinical and Translational Neurology, 2017, 4, 392-402.	1.7	43
23	Guanosine Prevents Anhedonic-Like Behavior and Impairment in Hippocampal Glutamate Transport Following Amyloid-Î²1â€“40 Administration in Mice. Molecular Neurobiology, 2017, 54, 5482-5496.	1.9	39
24	MicroPET imaging and transgenic models: a blueprint for Alzheimer's disease clinical research. Trends in Neurosciences, 2014, 37, 629-641.	4.2	38
25	Brain Insulin Administration Triggers Distinct Cognitive and Neurotrophic Responses in Young and Aged Rats. Molecular Neurobiology, 2016, 53, 5807-5817.	1.9	38
26	Quantitative positron emission tomography in brain research. Brain Research, 2017, 1670, 220-234.	1.1	38
27	Imaging in Vivo Glutamate Fluctuations with [¹¹C]ABP688: A GLT-1 Challenge with Ceftriaxone. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1169-1174.	2.4	37
28	Staging of Alzheimerâ€™s disease: past, present, and future perspectives. Trends in Molecular Medicine, 2022, 28, 726-741.	3.5	36
29	Imaging Î²-amyloid using [18F]flutemetamol positron emission tomography: from dosimetry to clinical diagnosis. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 362-373.	3.3	34
30	Imaging Alzheimer's disease pathophysiology with PET. Dementia E Neuropsychologia, 2016, 10, 79-90.	0.3	33
31	Serum S100B level increases after running but not cycling exercise. Applied Physiology, Nutrition and Metabolism, 2014, 39, 340-344.	0.9	32
32	In vivo characterization of metabotropic glutamate receptor type 5 abnormalities in behavioral variant FTD. Brain Structure and Function, 2016, 221, 1387-1402.	1.2	31
33	Insulin prevents mitochondrial generation of H2O2 in rat brain. Experimental Neurology, 2013, 247, 66-72.	2.0	28
34	Use of amyloid PET across the spectrum of Alzheimerâ€™s disease: clinical utility and associated ethical issues. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2014, 21, 143-148.	1.4	28
35	In vivo tracking of tau pathology using positron emission tomography (PET) molecular imaging in small animals. Translational Neurodegeneration, 2014, 3, 6.	3.6	27
36	Nandrolone-induced aggressive behavior is associated with alterations in extracellular glutamate homeostasis in mice. Hormones and Behavior, 2014, 66, 383-392.	1.0	26

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37	Pretreatment with Memantine Prevents Alzheimer-Like Alterations Induced by Intrahippocampal Okadaic Acid Administration in Rats. Current Alzheimer Research, 2012, 9, 1182-1190.	0.7	24
38	Depression comorbidity in epileptic rats is related to brain glucose hypometabolism and hypersynchronicity in the metabolic network architecture. Epilepsia, 2018, 59, 923-934.	2.6	24
39	Regional Amyloid-Î² Load and White Matter Abnormalities Contribute to Hypometabolism in Alzheimerâ€™s Dementia. Molecular Neurobiology, 2019, 56, 4916-4924.	1.9	21
40	Detection of Alzheimer's Disease. Yale Journal of Biology and Medicine, 2018, 91, 291-300.	0.2	21
41	Influence of environmental enrichment vs. time-of-day on behavioral repertoire of male albino Swiss mice. Neurobiology of Learning and Memory, 2015, 125, 63-72.	1.0	20
42	PET Imaging as a Tool for Assessing COVID-19 Brain Changes. Trends in Neurosciences, 2020, 43, 935-938.	4.2	20
43	Physical Exercise Exacerbates Memory Deficits Induced by Intracerebroventricular STZ but Improves Insulin Regulation of H2O2 Production in Mice Synaptosomes. Journal of Alzheimer's Disease, 2012, 30, 889-898.	1.2	18
44	Long-term NMDAR antagonism correlates reduced astrocytic glutamate uptake with anxiety-like phenotype. Frontiers in Cellular Neuroscience, 2015, 09, 219.	1.8	16
45	Activated peripheral blood mononuclear cell mediators trigger astrocyte reactivity. Brain, Behavior, and Immunity, 2019, 80, 879-888.	2.0	14
46	Clozapine induces astrocyte-dependent FDG-PET hypometabolism. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 2251-2264.	3.3	14
47	Intracerebroventricular Metformin Decreases Body Weight But Has Pro-oxidant Effects and Decreases Survival. Neurochemical Research, 2015, 40, 514-523.	1.6	13
48	Cortical Bilateral Adaptations in Rats Submitted to Focal Cerebral Ischemia: Emphasis on Glial Metabolism. Molecular Neurobiology, 2018, 55, 2025-2041.	1.9	13
49	A New Device for Step-Down Inhibitory Avoidance Taskâ€"Effects of Low and High Frequency in a Novel Device for Passive Inhibitory Avoidance Task That Avoids Bioimpedance Variations. PLoS ONE, 2015, 10, e0116000.	1.1	13
50	Assessment of the dimensions and surface characteristics of orthodontic wires and bracket slots. Dental Press Journal of Orthodontics, 2013, 18, 69-75.	0.2	11
51	Long-Term Oral Administration ofCapsicum baccatumExtracts Does Not Alter Behavioral, Hematological, and Metabolic Parameters in CF1 Mice. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-9.	0.5	10
52	Epistasis analysis links immune cascades and cerebral amyloidosis. Journal of Neuroinflammation, 2015, 12, 227.	3.1	10
53	Cell Index in the Diagnosis of External Ventricular Drain-Related Infections. World Neurosurgery, 2017, 106, 504-508.	0.7	10
54	Hyperpalatable Diet and Physical Exercise Modulate the Expression of the Glial Monocarboxylate Transporters MCT1 and 4. Molecular Neurobiology, 2017, 54, 5807-5814.	1.9	10

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55	Memantine decreases neuronal degeneration in young rats submitted to LiCl-pilocarpine-induced status epilepticus. NeuroToxicology, 2018, 66, 45-52.	1.4	10
56	Long-term changes in metabolic brain network drive memory impairments in rats following neonatal hypoxia-ischemia. Neurobiology of Learning and Memory, 2020, 171, 107207.	1.0	10
57	Inhibition of Protein Phosphatase 2A: Focus on the Glutamatergic System. Molecular Neurobiology, 2016, 53, 3753-3755.	1.9	9
58	About the source and consequences of 18F-FDG brain PET hypometabolism in short and long COVID-19. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2674-2675.	3.3	9
59	Memantine mediates astrocytic activity in response to excitotoxicity induced by PP2A inhibition. Neuroscience Letters, 2019, 696, 179-183.	1.0	8
60	ZIKA Virus and Neuroscience: the Need for a Translational Collaboration. Molecular Neurobiology, 2018, 55, 1551-1555.	1.9	7
61	Antidepressant-Like Effects of Chronic Guanosine in the Olfactory Bulbectomy Mouse Model. Frontiers in Psychiatry, 2021, 12, 701408.	1.3	7
62	Amyloidâ€dependent and amyloidâ€independent effects of Tau in individuals without dementia. Annals of Clinical and Translational Neurology, 2021, 8, 2083-2092.	1.7	7
63	Cognitive Intervention As an Early Non-pharmacological Strategy in Alzheimer's Disease: A Translational Perspective. Frontiers in Aging Neuroscience, 2016, 8, 280.	1.7	5
64	Soluble amyloid-beta isoforms predict downstream Alzheimerâ€™s disease pathology. Cell and Bioscience, 2021, 11, 204.	2.1	5
65	Changes in Brain 14-3-3 Proteins in Response to Insulin Resistance Induced by a High Palatable Diet. Molecular Neurobiology, 2015, 52, 710-718.	1.9	4
66	Dissociation between dopaminergic response and motor behavior following intrastriatal, but not intravenous, transplant of bone marrow mononuclear stem cells in a mouse model of Parkinsonâ€™s disease. Behavioural Brain Research, 2017, 324, 30-40.	1.2	4
67	Preâ€and early postnatal enriched environmental experiences prevent neonatal hypoxiaâ€ischemia late neurodegeneration via metabolic and neuroplastic mechanisms. Journal of Neurochemistry, 2021, 157, 1911-1929.	2.1	4
68	Wrappers Feature Selection in Alzheimer's Biomarkers Using kNN and SMOTE Oversampling. TeMa, 2017, 18, 15.	0.1	4
69	Nonamyloid PET biomarkers and Alzheimer's disease: current and future perspectives. Future Neurology, 2014, 9, 597-613.	0.9	3
70	A threeâ€range approach enhances the prognostic utility of CSF biomarkers in Alzheimer's disease. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2022, 8, e12270.	1.8	3
71	Imaging biomarkers for amyloid: a new generation of probes and what lies ahead. International Psychogeriatrics, 2014, 26, 703-707.	0.6	2
72	Rapid size-exclusion high performance liquid chromatography method for the quality control of amyloid-Î² oligomers. Journal of Chromatography A, 2021, 1643, 462024.	1.8	2

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73	Amyloid imaging in Alzheimerâ€™s disease: a potential new era of personalized medicine?. Translational Neuroscience, 2014, 5, .	0.7	1
74	IN VITRO PROPERTIES OF [18F]NAV4694: DYNAMIC RANGE, DISPLACEMENT, AND WHITE-MATTER BINDING. , 2014, 10, P23-P24.		1
75	Evidence That Methylphenidate Treatment Evokes Anxiety-Like Behavior Through Glucose Hypometabolism and Disruption of the Orbitofrontal Cortex Metabolic Networks. Neurotoxicity Research, 2021, 39, 1830-1845.	1.3	1
76	Functional Cognitive Disorder Presents High Frequency and Distinct Clinical Profile in Patients With Low Education. Frontiers in Aging Neuroscience, 2022, 14, 789190.	1.7	1
77	P1-152: LONGITUDINAL COLLECTION OF CEREBROSPINAL FLUID IN RATS: A MINIMALLY INVASIVE METHOD. , 2014, 10, P356-P356.		0
78	P1-279: EARLY REMODELING OF BRAIN METABOLIC ARCHITECTURE IN A TRANSGENIC RAT MODEL OF ALZHEIMER'S DISEASE. , 2014, 10, P411-P412.		0
79	IC-P-040: LONGITUDINAL COLLECTION OF CEREBROSPINAL FLUID IN RATS: A MINIMALLY INVASIVE METHOD. , 2014, 10, P24-P25.		0
80	IN VITRO PROPERTIES OF [18F]NAV4694: DYNAMIC RANGE, DISPLACEMENT, AND WHITE-MATTER BINDING. , 2014, 10, P396-P396.		0
81	IC-P-039: EARLY REMODELING OF BRAIN METABOLIC ARCHITECTURE IN A TRANSGENIC RAT MODEL OF ALZHEIMER'S DISEASE. , 2014, 10, P24-P24.		0
82	P1â€101: Amyloidâ€Beta 1â€42 (AÎ²_{1â€42}) Levels in the Cerebrospinal Fluid Associate With Spatial Memory Performance in Aged But Not in Adult Mcgillâ€Râ€THY1â€APP Rats. Alzheimer's and Dementia, 2016, 12, P440.	0.4	0
83	P2â€041: OPTIMIZATION AND VALIDATION OF A SEâ€HPLC METHOD FOR ANALYZING AMYLOID BETA OLIGOMERS. Alzheimer's and Dementia, 2018, 14, P682.	0.4	0
84	Amyloid pathology changes hippocampal GFAPâ€positive astrocytes phenotype. Alzheimer's and Dementia, 2020, 16, e042027.	0.4	0