Carlos Matute

List of Publications by Year
in descending order

218 papers	14,163 citations	15504 65 h-index	25787 108 g-index
229 all docs	229 docs citations	229 times ranked	15770 citing authors

#	Article	IF	Citations
1	Glutamate exocytosis from astrocytes controls synaptic strength. Nature Neuroscience, 2007, 10, 331-339.	14.8	706
2	Oligodendroglial NMDA Receptors Regulate Glucose Import and Axonal Energy Metabolism. Neuron, 2016, 91, 119-132.	8.1	381
3	P2X₇Receptor Blockade Prevents ATP Excitotoxicity in Oligodendrocytes and Ameliorates Experimental Autoimmune Encephalomyelitis. Journal of Neuroscience, 2007, 27, 9525-9533.	3.6	356
4	Glutamate receptor-mediated toxicity in optic nerveâ€‰oligodendrocytes. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8830-8835.	7.1	329
5	The link between excitotoxic oligodendroglial death and demyelinating diseases. Trends in Neurosciences, 2001, 24, 224-230.	8.6	320
6	Amyloid Î² oligomers induce Ca2+ dysregulation and neuronal death through activation of ionotropic glutamate receptors. Cell Calcium, 2010, 47, 264-272.	2.4	318
7	Glutamate-mediated glial injury: Mechanisms and clinical importance. Glia, 2006, 53, 212-224.	4.9	308
8	Nutritional omega-3 deficiency abolishes endocannabinoid-mediated neuronal functions. Nature Neuroscience, 2011, 14, 345-350.	14.8	276
9	Glia: the fulcrum of brain diseases. Cell Death and Differentiation, 2007, 14, 1324-1335.	11.2	234
10	Excitotoxic damage to white matter. Journal of Anatomy, 2007, 210, 693-702.	1.5	216
11	Microglia Actively Remodel Adult Hippocampal Neurogenesis through the Phagocytosis Secretome. Journal of Neuroscience, 2020, 40, 1453-1482.	3.6	204
12	Targeting the endocannabinoid system in the treatment of fragile X syndrome. Nature Medicine, 2013, 19, 603-607.	30.7	203
13	Amyloid Î² peptide oligomers directly activate NMDA receptors. Cell Calcium, 2011, 49, 184-190.	2.4	192
14	P2X7 receptors mediate ischemic damage to oligodendrocytes. Glia, 2010, 58, 730-740.	4.9	191
15	Neuroprotection by tetracyclines. Trends in Pharmacological Sciences, 2004, 25, 609-612.	8.7	189
16	Decreased levels of plasma BDNF in first-episode schizophrenia and bipolar disorder patients. Schizophrenia Research, 2006, 86, 321-322.	2.0	189
17	Molecular mechanisms of neuroprotection by two natural antioxidant polyphenols. Cell Calcium, 2009, 45, 358-368.	2.4	169
18	P2X7 receptor blockade prevents ATP excitotoxicity in neurons and reduces brain damage after ischemia. Neurobiology of Disease, 2012, 45, 954-961.	4.4	165

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19	Ca²⁺â€dependent endoplasmic reticulum stress correlates with astrogliosis in oligomeric amyloid Î²â€treated astrocytes and in a model of <scp>A</scp>lzheimer's disease. Aging Cell, 2013, 12, 292-302.	6.7	160
20	System xcâ^' and Glutamate Transporter Inhibition Mediates Microglial Toxicity to Oligodendrocytes. Journal of Immunology, 2007, 178, 6549-6556.	0.8	147
21	Neuroprotection by two polyphenols following excitotoxicity and experimental ischemia. Neurobiology of Disease, 2006, 23, 374-386.	4.4	145
22	AMPA and Kainate Receptors Each Mediate Excitotoxicity in Oligodendroglial Cultures. Neurobiology of Disease, 1999, 6, 475-485.	4.4	142
23	Monoclonal antibodies demonstrating GABA-like immunoreactivity. Histochemistry, 1986, 86, 147-157.	1.9	141
24	P2X4 receptor controls microglia activation and favors remyelination in autoimmune encephalitis. EMBO Molecular Medicine, 2018, 10, .	6.9	141
25	Neuronal Hyperactivity Disturbs ATP Microgradients, Impairs Microglial Motility, and Reduces Phagocytic Receptor Expression Triggering Apoptosis/Microglial Phagocytosis Uncoupling. PLoS Biology, 2016, 14, e1002466.	5.6	140
26	Insect optic lobe neurons identifiable with monoclonal antibodies to GABA. Histochemistry, 1986, 84, 207-216.	1.9	138
27	Caspase-Dependent and Caspase-Independent Oligodendrocyte Death Mediated by AMPA and Kainate Receptors. Journal of Neuroscience, 2003, 23, 9519-9528.	3.6	134
28	Expression of Ionotropic Glutamate Receptor Subunits in Glial Cells of the Hippocampal CA1 Area following Transient Forebrain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 290-300.	4.3	133
29	Immunohistochemical localization of the P2Y1 purinergic receptor in neurons and glial cells of the central nervous system. Molecular Brain Research, 2000, 78, 50-58.	2.3	130
30	Glutamate and ATP signalling in white matter pathology. Journal of Anatomy, 2011, 219, 53-64.	1.5	129
31	Increased expression and function of glutamate transporters in multiple sclerosis. Neurobiology of Disease, 2006, 21, 154-164.	4.4	128
32	Glutamate-like immunoreactivity revealed in rat olfactory bulb, hippocampus and cerebellum by monoclonal antibody and sensitive staining method. Histochemistry, 1989, 90, 427-445.	1.9	127
33	Neurotransmitter signaling in the pathophysiology of microglia. Frontiers in Cellular Neuroscience, 2013, 7, 49.	3.7	127
34	Excitotoxicity in glial cells. European Journal of Pharmacology, 2002, 447, 239-246.	3.5	117
35	Characteristics of acute and chronic kainate excitotoxic damage to the optic nerve. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10229-10234.	7.1	116
36	Expression of glutamate transporters in rat optic nerve oligodendrocytes. European Journal of Neuroscience, 1999, 11, 2226-2236.	2.6	116

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37	Increased expression of the astrocytic glutamate transporter GLT-1 in the prefrontal cortex of schizophrenics. Glia, 2005, 49, 451-455.	4.9	115
38	Endoplasmic reticulum Ca2+ release through ryanodine and IP3 receptors contributes to neuronal excitotoxicity. Cell Calcium, 2009, 46, 273-281.	2.4	113
39	Distribution of GABA-like immunoreactivity in the pigeon brain. Neuroscience, 1988, 25, 931-950.	2.3	112
40	Interleukin-1Î² Enhances GABAA Receptor Cell-surface Expression by a Phosphatidylinositol 3-Kinase/Akt Pathway. Journal of Biological Chemistry, 2006, 281, 14632-14643.	3.4	111
41	Ca2+ Influx through AMPA or Kainate Receptors Alone Is Sufficient to Initiate Excitotoxicity in Cultured Oligodendrocytes. Neurobiology of Disease, 2002, 9, 234-243.	4.4	110
42	Excitotoxic oligodendrocyte death and axonal damage induced by glutamate transporter inhibition. Glia, 2005, 52, 36-46.	4.9	104
43	Neurotransmitter signaling in white matter. Glia, 2014, 62, 1762-1779.	4.9	102
44	Extrasynaptic glutamate release through cystine/glutamate antiporter contributes to ischemic damage. Journal of Clinical Investigation, 2014, 124, 3645-3655.	8.2	98
45	In vitro Î±-synuclein neurotoxicity and spreading among neurons and astrocytes using Lewy body extracts from Parkinson disease brains. Neurobiology of Disease, 2017, 103, 101-112.	4.4	96
46	Increased expression of cystine/glutamate antiporter in multiple sclerosis. Journal of Neuroinflammation, 2011, 8, 63.	7.2	94
47	The expression of glutamate transporter GLT-1 in the rat cerebral cortex is down-regulated by the antipsychotic drug clozapine. Molecular Psychiatry, 2001, 6, 380-386.	7.9	93
48	Serum IgG Antibodies Against the NR₁Subunit of the NMDA Receptor Not Detected in Schizophrenia. American Journal of Psychiatry, 2012, 169, 1120-1121.	7.2	93
49	FTY720 attenuates excitotoxicity and neuroinflammation. Journal of Neuroinflammation, 2015, 12, 86.	7.2	92
50	Activation by P2X7 Agonists of Two Phospholipases A2 (PLA2) in Ductal Cells of Rat Submandibular Gland. Journal of Biological Chemistry, 1998, 273, 30208-30217.	3.4	91
51	A serum factor that activates the phosphatidylinositol phosphate signaling system in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1521-1525.	7.1	90
52	Intracellular Ca2+ release through ryanodine receptors contributes to AMPA receptor-mediated mitochondrial dysfunction and ER stress in oligodendrocytes. Cell Death and Disease, 2010, 1, e54-e54.	6.3	88
53	White matter injury: Ischemic and nonischemic. Glia, 2014, 62, 1780-1789.	4.9	88
54	Activation of Kainate Receptors Sensitizes Oligodendrocytes to Complement Attack. Journal of Neuroscience, 2006, 26, 3220-3228.	3.6	87

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55	Protecting White Matter From Stroke Injury. Stroke, 2013, 44, 1204-1211.	2.0	83
56	Selective retrograde labeling with D-[3H]-aspartate in afferents to the mammalian superior colliculus. Journal of Comparative Neurology, 1985, 241, 34-49.	1.6	82
57	Expression of Kainate-selective Glutamate Receptor Subunits in Glial Cells of the Adult Bovine White Matter. European Journal of Neuroscience, 1996, 8, 2379-2387.	2.6	78
58	Oligodendrocyte NMDA receptors: a novel therapeutic target. Trends in Molecular Medicine, 2006, 12, 289-292.	6.7	76
59	Blockade of monoacylglycerol lipase inhibits oligodendrocyte excitotoxicity and prevents demyelinationin vivo. Glia, 2015, 63, 163-176.	4.9	74
60	Mitochondrial Division Inhibitor 1 (mdivi-1) Protects Neurons against Excitotoxicity through the Modulation of Mitochondrial Function and Intracellular Ca2+ Signaling. Frontiers in Molecular Neuroscience, 2018, 11, 3.	2.9	74
61	P2X4 receptors control the fate and survival of activated microglia. Glia, 2014, 62, 171-184.	4.9	73
62	Differential oxidative stress in oligodendrocytes and neurons after excitotoxic insults and protection by natural polyphenols. Glia, 2006, 53, 201-211.	4.9	72
63	ATP Signaling in Brain: Release, Excitotoxicity and Potential Therapeutic Targets. Cellular and Molecular Neurobiology, 2015, 35, 1-6.	3.3	72
64	Calcium dyshomeostasis in white matter pathology. Cell Calcium, 2010, 47, 150-157.	2.4	69
65	Calcium and glial cell death. Cell Calcium, 2005, 38, 417-425.	2.4	68
66	Decreased levels of plasma glutamate in patients with first-episode schizophrenia and bipolar disorder. Schizophrenia Research, 2007, 95, 174-178.	2.0	67
67	Multiple sclerosis: novel perspectives on newly forming lesions. Trends in Neurosciences, 2005, 28, 173-175.	8.6	64
68	Gain-of-function of P2X7 receptor gene variants in multiple sclerosis. Cell Calcium, 2011, 50, 468-472.	2.4	63
69	P2X7 Receptors in Oligodendrocytes: A Novel Target for Neuroprotection. Molecular Neurobiology, 2008, 38, 123-128.	4.0	62
70	Cannabidiol induces intracellular calcium elevation and cytotoxicity in oligodendrocytes. Glia, 2010, 58, 1739-1747.	4.9	62
71	Mangiferin and Morin Attenuate Oxidative Stress, Mitochondrial Dysfunction, and Neurocytotoxicity, Induced by Amyloid Beta Oligomers. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-13.	4.0	62
72	PÃo del RÃo Hortega and the discovery of the oligodendrocytes. Frontiers in Neuroanatomy, 2015, 9, 92.	1.7	61

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73	Gamma-aminobutyric acid-immunoreactive neurons in the rat trigeminal nuclei. Histochemistry, 1993, 99, 49-55.	1.9	60
74	Roles of White Matter in Central Nervous System Pathophysiologies. ASN Neuro, 2012, 4, AN20110060.	2.7	59
75	Contribution of Pannexin1 to Experimental Autoimmune Encephalomyelitis. PLoS ONE, 2013, 8, e66657.	2.5	59
76	Expression of glutamate transporters in the adult bovine corpus callosum. Molecular Brain Research, 1999, 67, 296-302.	2.3	56
77	A cytokine gene screen uncovers SOCS1 as genetic risk factor for multiple sclerosis. Genes and Immunity, 2012, 13, 21-28.	4.1	56
78	CGP37157, an inhibitor of the mitochondrial Na+/Ca2+ exchanger, protects neurons from excitotoxicity by blocking voltage-gated Ca2+ channels. Cell Death and Disease, 2014, 5, e1156-e1156.	6.3	56
79	Bax and Calpain Mediate Excitotoxic Oligodendrocyte Death Induced by Activation of Both AMPA and Kainate Receptors. Journal of Neuroscience, 2011, 31, 2996-3006.	3.6	55
80	Blockade of P2X7 Receptors or Pannexin-1 Channels Similarly Attenuates Postischemic Damage. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 843-850.	4.3	55
81	Development of a New Family of Conformationally Restricted Peptides as Potent Nucleators of Î²-Turns. Design, Synthesis, Structure, and Biological Evaluation of a Î²-Lactam Peptide Analogue of Melanostatin. Journal of the American Chemical Society, 2003, 125, 16243-16260.	13.7	54
82	Increase in brain-derived neurotrophic factor in first episode psychotic patients after treatment with atypical antipsychotics. International Clinical Psychopharmacology, 2010, 25, 241-245.	1.7	54
83	Contribution of Neurons and Glial Cells to Complement-Mediated Synapse Removal during Development, Aging and in Alzheimerâ€™s Disease. Mediators of Inflammation, 2018, 2018, 1-12.	3.0	54
84	A rare P2X7 variant Arg307Gln with absent pore formation function protects against neuroinflammation in multiple sclerosis. Human Molecular Genetics, 2015, 24, 5644-5654.	2.9	53
85	Amyloid Î²â€induced astrogliosis is mediated by Î²1â€integrin via NADPH oxidase 2 in Alzheimer's disease. Aging Cell, 2016, 15, 1140-1152.	6.7	53
86	Postnatal development of parvalbumin-, calbindin- and adult GABA-immunoreactivity in two visual nuclei of zebra finches. Brain Research, 1988, 475, 205-217.	2.2	52
87	Clozapine reduces GLT-1 expression and glutamate uptake in astrocyte cultures. Glia, 2005, 50, 276-279.	4.9	52
88	BDNF and NGF Signalling in Early Phases of Psychosis: Relationship With Inflammation and Response to Antipsychotics After 1 Year. Schizophrenia Bulletin, 2016, 42, sbv078.	4.3	52
89	A novel alternative splicing form of excitatory amino acid transporter 1 is a negative regulator of glutamate uptake. Journal of Neurochemistry, 2005, 95, 341-348.	3.9	51
90	Association of an EAAT2 polymorphism with higher glutamate concentration in relapsing multiple sclerosis. Journal of Neuroimmunology, 2008, 195, 194-198.	2.3	51

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91	The link of inflammation and neurodegeneration in progressive multiple sclerosis. Multiple Sclerosis and Demyelinating Disorders, 2016, 1, .	1.1	50
92	Neurotransmitter receptors and voltage-dependent Ca2+ channels encoded by mRNA from the adult corpus callosum.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3270-3274.	7.1	49
93	Altered Expression of the Glutamate Transporter EAAC1 in Neurons and Immature Oligodendrocytes after Transient Forebrain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 678-687.	4.3	49
94	Mangifera indica L. extract attenuates glutamate-induced neurotoxicity on rat cortical neurons. NeuroToxicology, 2009, 30, 1053-1058.	3.0	49
95	AÎ² oligomers promote oligodendrocyte differentiation and maturation via integrin Î²1 and Fyn kinase signaling. Cell Death and Disease, 2019, 10, 445.	6.3	49
96	Differential Molecular Targets for Neuroprotective Effect of Chlorogenic Acid and its Related Compounds Against Glutamate Induced Excitotoxicity and Oxidative Stress in Rat Cortical Neurons. Neurochemical Research, 2017, 42, 3559-3572.	3.3	48
97	Oligodendrocyte differentiation from adult multipotent stem cells is modulated by glutamate. Cell Death and Disease, 2012, 3, e268-e268.	6.3	47
98	Therapeutic Potential of Kainate Receptors. CNS Neuroscience and Therapeutics, 2011, 17, 661-669.	3.9	46
99	Dual-specific Phosphatase-6 (Dusp6) and ERK Mediate AMPA Receptor-induced Oligodendrocyte Death. Journal of Biological Chemistry, 2011, 286, 11825-11836.	3.4	46
100	AMPA-selective glutamate receptor subunits in glial cells of the adult bovine white matter. Molecular Brain Research, 1998, 53, 270-276.	2.3	45
101	Relationship between negative symptoms and plasma levels of insulin-like growth factor 1 in first-episode schizophrenia and bipolar disorder patients. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2013, 44, 29-33.	4.8	45
102	Inhibition of cyclin-dependent kinases is neuroprotective in 1-methyl-4-phenylpyridinium-induced apoptosis in neurons. Neuroscience, 2007, 146, 350-365.	2.3	44
103	1â€“42 Î²-Amyloid peptide requires PDK1/nPKC/Rac 1 pathway to induce neuronal death. Translational Psychiatry, 2013, 3, e219-e219.	4.8	44
104	Axon-to-Glia Interaction Regulates GABA_AReceptor Expression in Oligodendrocytes. Molecular Pharmacology, 2016, 89, 63-74.	2.3	43
105	Contribution of P2X4 Receptors to CNS Function and Pathophysiology. International Journal of Molecular Sciences, 2020, 21, 5562.	4.1	43
106	CB₁ cannabinoid receptorâ€dependent and â€independent inhibition of depolarizationâ€induced calcium influx in oligodendrocytes. Glia, 2009, 57, 295-306.	4.9	42
107	Multiple angiotensin receptor subtypes in normal and tumor astrocytes in vitro. Glia, 2002, 39, 304-313.	4.9	41
108	A₃ Adenosine receptors mediate oligodendrocyte death and ischemic damage to optic nerve. Glia, 2014, 62, 199-216.	4.9	41

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109	In VivoPET Imaging of the Î±4Î²2 Nicotinic Acetylcholine Receptor As a Marker for Brain Inflammation after Cerebral Ischemia. Journal of Neuroscience, 2015, 35, 5998-6009.	3.6	41
110	Possible Therapeutic Doses of Cannabinoid Type 1 Receptor Antagonist Reverses Key Alterations in Fragile X Syndrome Mouse Model. Genes, 2016, 7, 56.	2.4	39
111	Synaptic activity protects against AD and FTD-like pathology via autophagic-lysosomal degradation. Molecular Psychiatry, 2018, 23, 1530-1540.	7.9	39
112	Oligodendrocyte Differentiation and Myelination Is Potentiated via GABAB Receptor Activation. Neuroscience, 2020, 439, 163-180.	2.3	39
113	CLR01 protects dopaminergic neurons in vitro and in mouse models of Parkinsonâ€™s disease. Nature Communications, 2020, 11, 4885.	12.8	39
114	Functional glutamate transport in rodent optic nerve axons and glia. Glia, 2008, 56, 1353-1367.	4.9	38
115	Neuroglial interactions mediated by purinergic signalling in the pathophysiology of CNS disorders. Seminars in Cell and Developmental Biology, 2011, 22, 252-259.	5.0	38
116	PET Imaging with [¹⁸F]FSPG Evidences the Role of System xc⁻ on Brain Inflammation Following Cerebral Ischemia in Rats. Theranostics, 2016, 6, 1753-1767.	10.0	37
117	Zn²⁺â€induced ERK activation mediates PARPâ€1â€dependent ischemicâ€reoxygenation damage to oligodendrocytes. Glia, 2013, 61, 383-393.	4.9	36
118	Glutamate receptors in astrocytic end-feet. NeuroReport, 1994, 5, 1205-1208.	1.2	35
119	Angiotensin receptor-like immunoreactivity in adult brain white matter astrocytes and oligodendrocytes. Glia, 2001, 35, 131-146.	4.9	34
120	Plasma brain-derived neurotrophic factor levels, learning capacity and cognition in patients with first episode psychosis. BMC Psychiatry, 2013, 13, 27.	2.6	34
121	Increased expression of glutamate transporters in subcortical white matter after transient focal cerebral ischemia. Neurobiology of Disease, 2010, 37, 156-165.	4.4	33
122	Deregulation of the endocannabinoid system and therapeutic potential of ABHD6 blockade in the cuprizone model of demyelination. Biochemical Pharmacology, 2018, 157, 189-201.	4.4	33
123	The contribution of GABA-ergic neurons to horizontal intrinsic connections in upper layers of the cat's striate cortex. Experimental Brain Research, 1991, 85, 235-9.	1.5	32
124	GLT-1 down-regulation induced by clozapine in rat frontal cortex is associated with synaptophysin up-regulation. Journal of Neurochemistry, 2006, 99, 134-141.	3.9	32
125	Expression and Function of GABA Receptors in Myelinating Cells. Frontiers in Cellular Neuroscience, 2020, 14, 256.	3.7	31
126	Cytosolic zinc accumulation contributes to excitotoxic oligodendroglial death. Glia, 2013, 61, 750-764.	4.9	30

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127	Astrocytic atrophy as a pathological feature of Parkinsonâ€™s disease with LRRK2 mutation. Npj Parkinson's Disease, 2021, 7, 31.	5.3	30
128	GLTâ€1 expression and Glu uptake in rat cerebral cortex are increased by phencyclidine. Glia, 2008, 56, 1320-1327.	4.9	29
129	Purinergic receptors in multiple sclerosis pathogenesis. Brain Research Bulletin, 2019, 151, 38-45.	3.0	29
130	Early Effects of AÎ² Oligomers on Dendritic Spine Dynamics and Arborization in Hippocampal Neurons. Frontiers in Synaptic Neuroscience, 2020, 12, 2.	2.5	29
131	Targeting P2X4 and P2X7 receptors in multiple sclerosis. Current Opinion in Pharmacology, 2019, 47, 119-125.	3.5	28
132	Nâ€Methylâ€Dâ€Aspartate Receptor Antibodies in Autoimmune Encephalopathy Alter Oligodendrocyte Function. Annals of Neurology, 2020, 87, 670-676.	5.3	28
133	An organotypic culture model to study nigro-striatal degeneration. Journal of Neuroscience Methods, 2010, 188, 205-212.	2.5	27
134	Inflammation in stroke: the role of cholinergic, purinergic and glutamatergic signaling. Therapeutic Advances in Neurological Disorders, 2018, 11, 175628641877426.	3.5	27
135	Glutamate receptors and white matter stroke. Neuroscience Letters, 2019, 694, 86-92.	2.1	27
136	Gene Expression Analysis of Astrocyte and Microglia Endocannabinoid Signaling during Autoimmune Demyelination. Biomolecules, 2020, 10, 1228.	4.0	27
137	Expression of nerve growth factor in astrocytes of the hippocampal CA1 area following transient forebrain ischemia. Neuroscience, 1999, 91, 1027-1034.	2.3	26
138	Functional and Metabolic Characterization of Microglia Culture in a Defined Medium. Frontiers in Cellular Neuroscience, 2020, 14, 22.	3.7	26
139	Ionotropic glutamate receptor subunit distribution on hypoglossal motoneuronal pools in the rat. Journal of Neurocytology, 1999, 28, 455-468.	1.5	25
140	Differential Expression of Calcium Channel Subtypes in the Bovine Adrenal Medulla. Neuroendocrinology, 2001, 74, 251-261.	2.5	24
141	NMDA modulates oligodendrocyte differentiation of subventricular zone cells through PKC activation. Frontiers in Cellular Neuroscience, 2013, 7, 261.	3.7	24
142	Localization of AMPA-selective glutamate receptor subunits in the adult cat visual cortex. Visual Neuroscience, 1996, 13, 61-72.	1.0	23
143	KA1-like kainate receptor subunit immunoreactivity in neurons and glia using a novel anti-peptide antibody. Molecular Brain Research, 2000, 81, 164-176.	2.3	23
144	Mitochondrial division inhibitor 1 disrupts oligodendrocyte Ca²⁺ homeostasis and mitochondrial function. Glia, 2020, 68, 1743-1756.	4.9	23

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145	Activation of phospholipase D-2 by P2X7 agonists in rat submandibular gland acini. Journal of Lipid Research, 2002, 43, 1244-1255.	4.2	22
146	Clonal Glial Response in a Multiple Sclerosis Mouse Model. Frontiers in Cellular Neuroscience, 2018, 12, 375.	3.7	22
147	Re-examining the potential of targeting ABHD6 in multiple sclerosis: Efficacy of systemic and peripherally restricted inhibitors in experimental autoimmune encephalomyelitis. Neuropharmacology, 2018, 141, 181-191.	4.1	22
148	AÎ² _{1â€“42} triggers the generation of a retrograde signaling complex from sentinel <scp>mRNA</scp> s in axons. EMBO Reports, 2018, 19, .	4.5	22
149	Subclinical Depressive Symptoms and Continued Cannabis Use: Predictors of Negative Outcomes in First Episode Psychosis. PLoS ONE, 2015, 10, e0123707.	2.5	22
150	Î”⁹â€Tetrahydrocannabinol promotes oligodendrocyte development and CNS myelination in vivo. Glia, 2021, 69, 532-545.	4.9	21
151	Cross-talk between Native Plasmalemmal Na+/Ca2+ Exchanger and Inositol 1,4,5-Trisphosphate-sensitive Ca2+ Internal Store in Xenopus Oocytes. Journal of Biological Chemistry, 2004, 279, 52414-52424.	3.4	20
152	In vivo imaging of system xc- as a novel approach to monitor multiple sclerosis. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1124-1138.	6.4	20
153	In vivo imaging of Î·7 nicotinic receptors as a novel method to monitor neuroinflammation after cerebral ischemia. Glia, 2018, 66, 1611-1624.	4.9	20
154	Interaction between glutamate signalling and immune attack in damaging oligodendrocytes. Neuron Glia Biology, 2007, 3, 281-285.	1.6	19
155	Cystine/glutamate antiporter blockage induces myelin degeneration. Glia, 2016, 64, 1381-1395.	4.9	19
156	Adenosine A1 receptor inhibits postnatal neurogenesis and sustains astrogliogenesis from the subventricular zone. Glia, 2016, 64, 1465-1478.	4.9	19
157	A Model of Ischemia-Induced Neuroblast Activation in the Adult Subventricular Zone. PLoS ONE, 2009, 4, e5278.	2.5	19
158	GATâ€1 mediated GABA uptake in rat oligodendrocytes. Glia, 2017, 65, 514-522.	4.9	18
159	A Neuron, Microglia, and Astrocyte Triple Co-culture Model to Study Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2022, 14, 844534.	3.4	18
160	Regulation by P2 agonists of the intracellular calcium concentration in epithelial cells freshly isolated from rat trachea. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1439, 395-405.	2.4	17
161	Synaptic plasticity and spatial working memory are impaired in the CD mouse model of Williams-Beuren syndrome. Molecular Brain, 2016, 9, 76.	2.6	17
162	Role of Monoubiquitylation on the Control of IÎºBÎ± Degradation and NF-ÎºB Activity. PLoS ONE, 2011, 6, e25397.	2.5	16

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163	Amyloid Î² / PKC-dependent alterations in NMDA receptor composition are detected in early stages of AlzheimerÂ´s disease. Cell Death and Disease, 2022, 13, 253.	6.3	16
164	Anatomical evidence for glutamate and/or aspartate as neurotransmitters in the geniculo-, claustro-, and cortico-cortical pathways to the cat striate cortex. , 1996, 373, 422-432.		15
165	Effects of FTY720 on brain neurogenic niches in vitro and after kainic acid-induced injury. Journal of Neuroinflammation, 2017, 14, 147.	7.2	15
166	Endocannabinoid signaling in brain diseases: Emerging relevance of glial cells. Glia, 2023, 71, 103-126.	4.9	15
167	Ionotropic glutamate receptor subunits are differentially regulated in the motoneuronal pools of the rat hypoglossal nucleus in response to axotomy. Journal of Neurocytology, 2000, 29, 509-523.	1.5	14
168	Expression of neurotransmitter receptors and Ca2+ channels in the adult fornix and optic nerve. NeuroReport, 1994, 5, 1457-1460.	1.2	13
169	Cloning and Expression of a P2yPurinoceptor from the Adult Bovine Corpus Callosum. Neurobiology of Disease, 1998, 5, 259-270.	4.4	13
170	Pharmacogenomics of the response to IFN-Î² in multiple sclerosis: ramifications from the first genome-wide screen. Pharmacogenomics, 2008, 9, 639-645.	1.3	13
171	Inhibition of Casein Kinase 2 Protects Oligodendrocytes From Excitotoxicity by Attenuating JNK/p53 Signaling Cascade. Frontiers in Molecular Neuroscience, 2018, 11, 333.	2.9	13
172	In vivo multimodal imaging of adenosine A₁ receptors in neuroinflammation after experimental stroke. Theranostics, 2021, 11, 410-425.	10.0	13
173	Differential Neuroprotective Effects of 5â€²-Deoxy-5â€²-Methylthioadenosine. PLoS ONE, 2014, 9, e90671.	2.5	13
174	Selective retrograde labeling in some afferents to the rabbit lateral geniculate nucleus following injections of tritiated neurotransmitter-related compounds. Neuroscience Letters, 1985, 53, 9-14.	2.1	12
175	On How Altered Glutamate Homeostasis May Contribute to Demyelinating Diseases of the Cns. Advances in Experimental Medicine and Biology, 1999, , 98-107.	1.6	12
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