Alexei Verkhratsky

List of Publications by Year
in descending order

526 papers	46,186 citations	1697 104 h-index	2883 190 g-index
566 all docs	566 docs citations	566 times ranked	38712 citing authors

#	Article	IF	Citations
1	Neuroinflammation in Alzheimer's disease. Lancet Neurology, The, 2015, 14, 388-405.	4.9	4,129
2	Physiology of Microglia. Physiological Reviews, 2011, 91, 461-553.	13.1	2,990
3	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
4	Physiology of Astroglia. Physiological Reviews, 2018, 98, 239-389.	13.1	1,044
5	Receptors for Purines and Pyrimidines. , 2012, , 119-244.		1,005
6	Microglia: New Roles for the Synaptic Stripper. Neuron, 2013, 77, 10-18.	3.8	949
7	Purinergic signalling in the nervous system: an overview. Trends in Neurosciences, 2009, 32, 19-29.	4.2	733
8	Physiology and Pathophysiology of the Calcium Store in the Endoplasmic Reticulum of Neurons. Physiological Reviews, 2005, 85, 201-279.	13.1	665
9	Glial Calcium: Homeostasis and Signaling Function. Physiological Reviews, 1998, 78, 99-141.	13.1	637
10	Microdomains for neuronâ€“glia interaction: parallel fiber signaling to Bergmann glial cells. Nature Neuroscience, 1999, 2, 139-143.	7.1	612
11	Astrocytes: a central element in neurological diseases. Acta Neuropathologica, 2016, 131, 323-345.	3.9	597
12	Calcium signalling in glial cells. Trends in Neurosciences, 1996, 19, 346-352.	4.2	474
13	Glial cells in (patho)physiology. Journal of Neurochemistry, 2012, 121, 4-27.	2.1	460
14	Ion channels in glial cells. Brain Research Reviews, 2000, 32, 380-412.	9.1	442
15	Concomitant astroglial atrophy and astrogliosis in a triple transgenic animal model of Alzheimer's disease. Glia, 2010, 58, 831-838.	2.5	385
16	Astrocytes in Alzheimer's Disease. Neurotherapeutics, 2010, 7, 399-412.	2.1	377
17	Astroglia in dementia and Alzheimer's disease. Cell Death and Differentiation, 2009, 16, 378-385.	5.0	351
18	Astrocytes in physiological aging and Alzheimerâ€™s disease. Neuroscience, 2016, 323, 170-182.	1.1	331

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19	NMDA Receptors Mediate Neuron-to-Glia Signaling in Mouse Cortical Astrocytes. Journal of Neuroscience, 2006, 26, 2673-2683.	1.7	321
20	Astrocytes as secretory cells of the central nervous system: idiosyncrasies of vesicular secretion. EMBO Journal, 2016, 35, 239-257.	3.5	318
21	Physiological Changes in Glucose Differentially Modulate the Excitability of Hypothalamic Melanin-Concentrating Hormone and Orexin Neurons In Situ. Journal of Neuroscience, 2005, 25, 2429-2433.	1.7	314
22	Impaired Adult Neurogenesis in the Dentate Gyrus of a Triple Transgenic Mouse Model of Alzheimer's Disease. PLoS ONE, 2008, 3, e2935.	1.1	314
23	Neuroinfection may contribute to pathophysiology and clinical manifestations of COVIDâ€19. Acta Physiologica, 2020, 229, e13473.	1.8	283
24	Calcium-induced calcium release in neurones. Cell Calcium, 1996, 19, 1-14.	1.1	275
25	Vesicular release of ATP at central synapses. Pflugers Archiv European Journal of Physiology, 2006, 452, 589-597.	1.3	275
26	Artifact versus realityâ€"How astrocytes contribute to synaptic events. Glia, 2012, 60, 1013-1023.	2.5	274
27	Control of hypothalamic orexin neurons by acid and CO2. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10685-10690.	3.3	265
28	Tandem-Pore K+ Channels Mediate Inhibition of Orexin Neurons by Glucose. Neuron, 2006, 50, 711-722.	3.8	259
29	Neuroglia in neurodegeneration. Brain Research Reviews, 2010, 63, 189-211.	9.1	247
30	Neuroglia: the 150 years after. Trends in Neurosciences, 2008, 31, 653-659.	4.2	243
31	Astroglial Excitability and Gliotransmission: An Appraisal of Ca²⁺ as a Signalling Route. ASN Neuro, 2012, 4, AN20110061.	1.5	240
32	Evolution of calcium homeostasis: From birth of the first cell to an omnipresent signalling system. Cell Calcium, 2007, 42, 345-350.	1.1	239
33	NMDA Receptors in Glia. Neuroscientist, 2007, 13, 28-37.	2.6	236
34	Evolutionary origins of the purinergic signalling system. Acta Physiologica, 2009, 195, 415-447.	1.8	236
35	Glia: the fulcrum of brain diseases. Cell Death and Differentiation, 2007, 14, 1324-1335.	5.0	234
36	Glucose-sensing neurons of the hypothalamus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2227-2235.	1.8	230

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37	Neurological Diseases as Primary Gliopathies: A Reassessment of Neurocentrism. ASN Neuro, 2012, 4, AN20120010.	1.5	217
38	Calcium and neuronal ageing. Trends in Neurosciences, 1998, 21, 2-7.	4.2	215
39	Intraluminal calcium as a primary regulator of endoplasmic reticulum function. Cell Calcium, 2005, 38, 303-310.	1.1	214
40	Astroglial cradle in the life of the synapse. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130595.	1.8	214
41	The serotonergic system in ageing and Alzheimer's disease. Progress in Neurobiology, 2012, 99, 15-41.	2.8	211
42	REVIEW: Oxytocin: Crossing the Bridge between Basic Science and Pharmacotherapy. CNS Neuroscience and Therapeutics, 2010, 16, e138-56.	1.9	209
43	Calcium signalling in astroglia. Molecular and Cellular Endocrinology, 2012, 353, 45-56.	1.6	207
44	Calcium signalling: Past, present and future. Cell Calcium, 2005, 38, 161-169.	1.1	206
45	Purinoceptors on Neuroglia. Molecular Neurobiology, 2009, 39, 190-208.	1.9	205
46	Sodium dynamics: another key to astroglial excitability?. Trends in Neurosciences, 2012, 35, 497-506.	4.2	204
47	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. Nature Neuroscience, 2019, 22, 7-14.	7.1	200
48	Ca2+ regulation and gene expression in normal brain aging. Trends in Neurosciences, 2004, 27, 614-620.	4.2	196
49	Mechanisms of ATPâ€•and glutamateâ€mediated calcium signaling in white matter astrocytes. Glia, 2008, 56, 734-749.	2.5	184
50	Long-term (trophic) purinergic signalling: purinoceptors control cell proliferation, differentiation and death. Cell Death and Disease, 2010, 1, e9-e9.	2.7	181
51	Ca2+ dynamics in the lumen of the endoplasmic reticulum in sensory neurons: direct visualization of Ca2+-induced Ca2+ release triggered by physiological Ca2+ entry. EMBO Journal, 2002, 21, 622-630.	3.5	180
52	Stratification of astrocytes in healthy and diseased brain. Brain Pathology, 2017, 27, 629-644.	2.1	180
53	The endoplasmic reticulum and neuronal calcium signalling. Cell Calcium, 2002, 32, 393-404.	1.1	174
54	Astrocyte glutamine synthetase: pivotal in health and disease. Biochemical Society Transactions, 2013, 41, 1518-1524.	1.6	174

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55	Calcium stores in neurons and glia. Neuroscience, 1994, 63, 381-404.	1.1	173
56	A dual role for interleukin-1 in LTP in mouse hippocampal slices. Journal of Neuroimmunology, 2003, 144, 61-67.	1.1	171
57	Pathophysiology of astroglial purinergic signalling. Purinergic Signalling, 2012, 8, 629-657.	1.1	171
58	From purines to purinergic signalling: molecular functions and human diseases. Signal Transduction and Targeted Therapy, 2021, 6, 162.	7.1	171
59	The importance of being subtle: small changes in calcium homeostasis control cognitive decline in normal aging. Aging Cell, 2007, 6, 267-273.	3.0	170
60	Early Astrocytic Atrophy in the Entorhinal Cortex of a Triple Transgenic Animal Model of Alzheimer's Disease. ASN Neuro, 2011, 3, AN20110025.	1.5	170
61	Psychiatric face of COVID-19. Translational Psychiatry, 2020, 10, 261.	2.4	169
62	Adenosine and ATP Receptors in the Brain. Current Topics in Medicinal Chemistry, 2011, 11, 973-1011.	1.0	167
63	Age-dependent decrease in glutamine synthetase expression in the hippocampal astroglia of the triple transgenic Alzheimer's disease mouse model: mechanism for deficient glutamatergic transmission?. Molecular Neurodegeneration, 2011, 6, 55.	4.4	164
64	Complex and region-specific changes in astroglial markers in the aging brain. Neurobiology of Aging, 2014, 35, 15-23.	1.5	164
65	P2X₁and P2X₅Subunits Form the Functional P2X Receptor in Mouse Cortical Astrocytes. Journal of Neuroscience, 2008, 28, 5473-5480.	1.7	161
66	Why are Astrocytes Important?. Neurochemical Research, 2015, 40, 389-401.	1.6	161
67	Insulin Prevents Depolarization of the Mitochondrial Inner Membrane in Sensory Neurons of Type 1 Diabetic Rats in the Presence of Sustained Hyperglycemia. Diabetes, 2003, 52, 2129-2136.	0.3	160
68	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.	3.0	160
69	Collapsin response mediator proteinâ€2 hyperphosphorylation is an early event in Alzheimerâ€™s disease progression. Journal of Neurochemistry, 2007, 103, 1132-1144.	2.1	158
70	Caffeine-induced calcium release from internal stores in cultured rat sensory neurons. Neuroscience, 1993, 57, 845-859.	1.1	154
71	Glial calcium and diseases of the nervous system. Cell Calcium, 2010, 47, 140-149.	1.1	151
72	Endoplasmic reticulum Ca2+homeostasis and neuronal death. Journal of Cellular and Molecular Medicine, 2003, 7, 351-361.	1.6	149

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73	Calcium signalling in glial cells. Cell Calcium, 1998, 24, 405-416.	1.1	148
74	P2X receptors and synaptic plasticity. Neuroscience, 2009, 158, 137-148.	1.1	147
75	ATP-induced cytoplasmic calcium mobilization in Bergmann glial cells. Journal of Neuroscience, 1995, 15, 7861-7871.	1.7	145
76	Glutamate-mediated neuronal?glial transmission. Journal of Anatomy, 2007, 210, 651-660.	0.9	142
77	Activation of P2â€purinoreceptors triggered Ca2+ release from InsP3â€sensitive internal stores in mammalian oligodendrocytes.. Journal of Physiology, 1995, 483, 41-57.	1.3	141
78	Ionotropic NMDA and P2X1/5 receptors mediate synaptically induced Ca2+ signalling in cortical astrocytes. Cell Calcium, 2010, 48, 225-231.	1.1	140
79	Ca2+ Stores and Ca2+ Entry Differentially Contribute to the Release of IL-1Î² and IL-1Î± from Murine Macrophages. Journal of Immunology, 2003, 170, 3029-3036.	0.4	139
80	Mechanisms of C5a and C3a Complement Fragment-Induced [Ca²⁺]_iSignaling in Mouse Microglia. Journal of Neuroscience, 1997, 17, 615-624.	1.7	138
81	Crosstalk Between MAPK/ERK and PI3K/AKT Signal Pathways During Brain Ischemia/Reperfusion. ASN Neuro, 2015, 7, 175909141560246.	1.5	136
82	Aberrant iPSC-derived human astrocytes in Alzheimer's disease. Cell Death and Disease, 2017, 8, e2696-e2696.	2.7	136
83	Ryanodine receptorâ€mediated intracellular calcium release in rat cerebellar Purkinje neurones.. Journal of Physiology, 1995, 487, 1-16.	1.3	135
84	Biology of purinergic signalling: Its ancient evolutionary roots, its omnipresence and its multiple functional significance. BioEssays, 2014, 36, 697-705.	1.2	135
85	Quantal Release of ATP in Mouse Cortex. Journal of General Physiology, 2007, 129, 257-265.	0.9	133
86	Ca2+ sources for the exocytotic release of glutamate from astrocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 984-991.	1.9	133
87	Astrocytic cytoskeletal atrophy in the medial prefrontal cortex of a triple transgenic mouse model of Alzheimerâ€™s disease. Journal of Anatomy, 2012, 221, 252-262.	0.9	131
88	Astrogliopathology in neurological, neurodevelopmental and psychiatric disorders. Neurobiology of Disease, 2016, 85, 254-261.	2.1	131
89	Glia in the pathogenesis of neurodegenerative diseases. Biochemical Society Transactions, 2014, 42, 1291-1301.	1.6	130
90	Astrocytic processes: from tripartite synapses to the active milieu. Trends in Neurosciences, 2021, 44, 781-792.	4.2	130

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91	The endoplasmic reticulum as an integrating signalling organelle: from neuronal signalling to neuronal death. European Journal of Pharmacology, 2002, 447, 141-154.	1.7	128
92	Mitochondria and calcium in health and disease. Cell Calcium, 2008, 44, 1-5.	1.1	128
93	Purinergic transmission in the central nervous system. Pflugers Archiv European Journal of Physiology, 2006, 452, 479-485.	1.3	127
94	Insulin enhances mitochondrial inner membrane potential and increases ATP levels through phosphoinositide 3-kinase in adult sensory neurons. Molecular and Cellular Neurosciences, 2005, 28, 42-54.	1.0	126
95	Astrogliopathology. Neuroscientist, 2014, 20, 576-588.	2.6	126
96	Na ⁺ /Ca ²⁺ exchanger modulates kainateâ€triggered Ca ²⁺ signaling in Bergmann glial cells in situ. FASEB Journal, 1997, 11, 566-572.	0.2	125
97	Principles of sodium homeostasis and sodium signalling in astroglia. Glia, 2016, 64, 1611-1627.	2.5	123
98	Membrane currents and cytoplasmic sodium transients generated by glutamate transport in Bergmann glial cells. Pflugers Archiv European Journal of Physiology, 2007, 454, 245-252.	1.3	120
99	Physiology of neuronalâ€“glial networking. Neurochemistry International, 2010, 57, 332-343.	1.9	119
100	Neuropathobiology of COVID-19: The Role for Glia. Frontiers in Cellular Neuroscience, 2020, 14, 592214.	1.8	119
101	Neurogenesis in Alzheimerâ€™s disease. Journal of Anatomy, 2011, 219, 78-89.	0.9	117
102	Activation of mouse microglial cells affects P2 receptor signaling. Brain Research, 2000, 853, 49-59.	1.1	116
103	Astroglia dynamics in ageing and Alzheimer's disease. Current Opinion in Pharmacology, 2016, 26, 74-79.	1.7	116
104	Astroglia in neurological diseases. Future Neurology, 2013, 8, 149-158.	0.9	115
105	The birth and postnatal development of purinergic signalling. Acta Physiologica, 2010, 199, 93-147.	1.8	114
106	Ionotropic P2X purinoreceptors mediate synaptic transmission in rat pyramidal neurones of layer II/III of somatoâ€sensory cortex. Journal of Physiology, 2002, 542, 529-536.	1.3	108
107	P2X Receptors and Their Roles in Astroglia in the Central and Peripheral Nervous System. Neuroscientist, 2012, 18, 422-438.	2.6	107
108	Homeostatic function of astrocytes: Ca2+ and Na+ signalling. Translational Neuroscience, 2012, 3, 334-344.	0.7	106

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109	Pannexin 1 forms an anion-selective channel. Pflugers Archiv European Journal of Physiology, 2012, 463, 585-592.	1.3	106
110	Calciumâ€induced calcium release in rat sensory neurons.. Journal of Physiology, 1995, 489, 627-636.	1.3	105
111	Ionotropic receptors in neuronalâ€“astroglial signalling: What is the role of â€œexcitableâ€•molecules in non-excitable cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 992-1002.	1.9	100
112	Astrocytes and Glutamate Homoeostasis in Alzheimer's Disease: A Decrease in Glutamine Synthetase, But Not in Glutamate Transporter-1, in the Prefrontal Cortex. ASN Neuro, 2013, 5, AN20130017.	1.5	100
113	Neuronal calcium stores. Cell Calcium, 1998, 24, 333-343.	1.1	99
114	The glial perspective of autism spectrum disorders. Neuroscience and Biobehavioral Reviews, 2014, 38, 160-172.	2.9	99
115	Refined protocols of tamoxifen injection for inducible DNA recombination in mouse astroglia. Scientific Reports, 2018, 8, 5913.	1.6	98
116	Calcium Signalling in Mouse Bergmann Glial Cells Mediated by Î±1-adrenoreceptors and H1Histamine - Receptors. European Journal of Neuroscience, 1996, 8, 1198-1208.	1.2	96
117	Long-term activation of capacitative Ca2+ entry in mouse microglial cells. Neuroscience, 1998, 86, 925-935.	1.1	96
118	Astroglial atrophy in Alzheimerâ€™s disease. Pflugers Archiv European Journal of Physiology, 2019, 471, 1247-1261.	1.3	95
119	Diabetes-induced alterations in calcium homeostasis in sensory neurones of streptozotocin-diabetic rats are restricted to lumbar ganglia and are prevented by neurotrophin-3. Diabetologia, 2002, 45, 560-570.	2.9	93
120	Increase in the density of resting microglia precedes neuritic plaque formation and microglial activation in a transgenic model of Alzheimer's disease. Cell Death and Disease, 2010, 1, e1-e1.	2.7	91
121	Plasmalemmal Na+/Ca2+ Exchanger Modulates Ca2+-Dependent Exocytotic Release of Glutamate from Rat Cortical Astrocytes. ASN Neuro, 2012, 4, AN20110059.	1.5	91
122	ATP-induced membrane currents in ameboid microglia acutely isolated from mouse brain slices. Neuroscience, 1996, 75, 257-261.	1.1	90
123	The homeostatic astroglia emerges from evolutionary specialization of neural cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150428.	1.8	89
124	Translational potential of astrocytes in brain disorders. Progress in Neurobiology, 2016, 144, 188-205.	2.8	89
125	Monitoring of free calcium in the neuronal endoplasmic reticulum: an overview of modern approaches. Journal of Neuroscience Methods, 2002, 122, 1-12.	1.3	88
126	Voluntary Running and Environmental Enrichment Restores Impaired Hippocampal Neurogenesis in a Triple Transgenic Mouse Model of Alzheimers Disease. Current Alzheimer Research, 2011, 8, 707-717.	0.7	88

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127	Impaired cell proliferation in the subventricular zone in an Alzheimer's disease model. NeuroReport, 2009, 20, 907-912.	0.6	87
128	Glial Asthenia and Functional Paralysis. Neuroscientist, 2015, 21, 552-568.	2.6	87
129	Neuronal endoplasmic reticulum acts as a single functional Ca2+ store shared by ryanodine and inositol-1,4,5-trisphosphate receptors as revealed by intra-ER [Ca2+] recordings in single rat sensory neurones. Pflugers Archiv European Journal of Physiology, 2003, 446, 447-454.	1.3	85
130	Age-dependent remodelling of ionotropic signalling in cortical astroglia. Aging Cell, 2011, 10, 392-402.	3.0	85
131	Amyloid-Î² and Alzheimerâ€™s disease type pathology differentially affects the calcium signalling toolkit in astrocytes from different brain regions. Cell Death and Disease, 2013, 4, e623-e623.	2.7	83
132	Apoptosis-Associated Speck-like Protein Containing a CARD Forms Specks but Does Not Activate Caspase-1 in the Absence of NLRP3 during Macrophage Swelling. Journal of Immunology, 2015, 194, 1261-1273.	0.4	83
133	Different properties of caffeine-sensitive Ca2+ stores in peripheral and central mammalian neurones. Pflugers Archiv European Journal of Physiology, 1994, 426, 174-176.	1.3	82
134	Different action of ethosuximide on low- and high-threshold calcium currents in rat sensory neurons. Neuroscience, 1992, 51, 755-758.	1.1	81
135	From Galvani to patch clamp: the development of electrophysiology. Pflugers Archiv European Journal of Physiology, 2006, 453, 233-247.	1.3	81
136	Enriched environment and physical activity reverse astrogliodegeneration in the hippocampus of AD transgenic mice. Cell Death and Disease, 2013, 4, e678-e678.	2.7	81
137	Neuronal-glial networks as substrate for CNS integration. Journal of Cellular and Molecular Medicine, 2006, 10, 826-836.	1.6	81
138	Neuronal ageing from an intraneuronal perspective: roles of endoplasmic reticulum and mitochondria. Cell Calcium, 2003, 34, 311-323.	1.1	78
139	Calcium homeostasis in aged neurones. Life Sciences, 1996, 59, 451-459.	2.0	76
140	Ca2+Channel Expression in the Oligodendrocyte Lineage. European Journal of Neuroscience, 1992, 4, 1035-1048.	1.2	74
141	Calcium currents in aged rat dorsal root ganglion neurones.. Journal of Physiology, 1993, 461, 467-483.	1.3	74
142	The ancient roots of calcium signalling evolutionary tree. Cell Calcium, 2015, 57, 123-132.	1.1	74
143	Mitochondrial malfunction and Ca2+ dyshomeostasis drive neuronal pathology in diabetes. Cell Calcium, 2008, 44, 112-122.	1.1	73
144	Disruption of oligodendrocyte progenitor cells is an early sign of pathology in the triple transgenic mouse model of Alzheimer's disease. Neurobiology of Aging, 2020, 94, 130-139.	1.5	73

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145	Astrocyte dystrophy in ageing brain parallels impaired synaptic plasticity. Aging Cell, 2021, 20, e13334.	3.0	72
146	Mechanism of mitochondrial dysfunction in diabetic sensory neuropathy. Journal of the Peripheral Nervous System, 2003, 8, 227-235.	1.4	71
147	Neurotrophin-3 prevents mitochondrial dysfunction in sensory neurons of streptozotocin-diabetic rats. Experimental Neurology, 2005, 194, 279-283.	2.0	71
148	Physiology of Microglia. Methods in Molecular Biology, 2019, 2034, 27-40.	0.4	71
149	Subcellular heterogeneity of voltage-gated Ca2+channels in cells of the oligodendrocyte lineage. Glia, 1995, 13, 1-12.	2.5	70
150	Where the thoughts dwell: The physiology of neuronalâ€“glial â€œdiffuse neural netâ€• Brain Research Reviews, 2011, 66, 133-151.	9.1	70
151	Differential deregulation of astrocytic calcium signalling by amyloid-Î², TNFÎ±, IL-1Î² and LPS. Cell Calcium, 2014, 55, 219-229.	1.1	70
152	Crosslink between calcium and sodium signalling. Experimental Physiology, 2018, 103, 157-169.	0.9	70
153	Astroglia-specific contributions to the regulation of synapses, cognition and behaviour. Neuroscience and Biobehavioral Reviews, 2020, 118, 331-357.	2.9	70
154	Dual action of thapsigargin on calcium mobilization in sensory neurons: Inhibition of Ca2+ uptake by caffeine-sensitive pools and blockade of plasmalemmal Ca2+ channels. Neuroscience, 1995, 65, 1109-1118.	1.1	69
155	Insulin-like growth factor-1-dependent maintenance of neuronal metabolism through the phosphatidylinositol 3-kinase-Akt pathway is inhibited by C2-ceramide in CAD cells. European Journal of Neuroscience, 2007, 25, 3030-3038.	1.2	69
156	Age-related structural and functional changes of brain mitochondria. Cell Calcium, 2000, 28, 329-338.	1.1	68
157	Glutamate-triggered calcium signalling in mouse Bergmann glial cells in situ: role of inositol-1,4,5-trisphosphate-mediated intracellular calcium release. Neuroscience, 1999, 92, 1051-1059.	1.1	67
158	Endoplasmic reticulum calcium tunnels integrate signalling in polarised cells. Cell Calcium, 2007, 42, 373-378.	1.1	67
159	Neuroglial Roots of Neurodegenerative Diseases?. Molecular Neurobiology, 2011, 43, 87-96.	1.9	67
160	Astroglial asthenia and loss of function, rather than reactivity, contribute to the ageing of the brain. Pflugers Archiv European Journal of Physiology, 2021, 473, 753-774.	1.3	67
161	Store-operated calcium entry in neuroglia. Neuroscience Bulletin, 2014, 30, 125-133.	1.5	66
162	Activation of P2-purino-,Î±1-adreno and H1-histamine receptors triggers cytoplasmic calcium signalling in cerebellar purkinje neurons. Neuroscience, 1996, 73, 643-647.	1.1	65

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163	ATP from synaptic terminals and astrocytes regulates NMDA receptors and synaptic plasticity through PSD-95 multi-protein complex. Scientific Reports, 2016, 6, 33609.	1.6	65
164	Astroglia in Sepsis Associated Encephalopathy. Neurochemical Research, 2020, 45, 83-99.	1.6	65
165	Physiology of Astroglia. Advances in Experimental Medicine and Biology, 2019, 1175, 45-91.	0.8	65
166	Ca2+and mitochondria as substrates for deficits in synaptic plasticity in normal brain ageing. Journal of Cellular and Molecular Medicine, 2004, 8, 181-190.	1.6	64
167	Ageâ€Dependent Changes in Calcium Currents and Calcium Homeostasis in Mammalian Neurons^a. Annals of the New York Academy of Sciences, 1994, 747, 365-381.	1.8	64
168	Astrocytes in heavy metal neurotoxicity and neurodegeneration. Brain Research, 2021, 1752, 147234.	1.1	64
169	Ca2+ signalling early in evolution â€“ all but primitive. Journal of Cell Science, 2013, 126, 2141-50.	1.2	63
170	Targeting astrocytes in major depression. Expert Review of Neurotherapeutics, 2015, 15, 1299-1306.	1.4	63
171	Neuroglia in the autistic brain: evidence from a preclinical model. Molecular Autism, 2018, 9, 66.	2.6	63
172	Cultured glial precursor cells from mouse cortex express two types of calcium currents. Neuroscience Letters, 1990, 112, 194-198.	1.0	62
173	Role of caffeine-sensitive Ca2+ stores in Ca2+ signal termination in adult mouse DRG neurones. NeuroReport, 1994, 5, 2073-2076.	0.6	62
174	Astrocytes in Alzheimerâ€™s Disease: Pathological Significance and Molecular Pathways. Cells, 2021, 10, 540.	1.8	62
175	P2X receptor-mediated excitatory synaptic currents in somatosensory cortex. Molecular and Cellular Neurosciences, 2003, 24, 842-849.	1.0	61
176	Calcium and Cell Death. , 2007, 45, 465-480.		61
177	Memory Formation Shaped by Astroglia. Frontiers in Integrative Neuroscience, 2015, 9, 56.	1.0	61
178	On the special role of NCX in astrocytes: Translating Na+-transients into intracellular Ca2+ signals. Cell Calcium, 2020, 86, 102154.	1.1	61
179	Measurements of intracellular calcium in sensory neurons of adult and old rats. Neuroscience, 1992, 50, 947-951.	1.1	60
180	Relations between intracellular Ca2+stores and store-operated Ca2+entry in primary cultured human glioblastoma cells. Journal of Physiology, 1998, 513, 411-424.	1.3	60

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181	Complex and Differential Glial Responses in Alzheimers Disease and Ageing. Current Alzheimer Research, 2016, 13, 343-358.	0.7	60
182	ATP induces Ca2+ release from IP3-sensitive Ca2+ stores exclusively in large DRG neurones. NeuroReport, 1997, 8, 1555-1559.	0.6	59
183	Astroglia in Alzheimerâ€™s Disease. Advances in Experimental Medicine and Biology, 2019, 1175, 273-324.	0.8	59
184	Recent advances in (patho)physiology of astroglia. Acta Pharmacologica Sinica, 2010, 31, 1044-1054.	2.8	57
185	Calcium signalling and calcium channels: Evolution and general principles. European Journal of Pharmacology, 2014, 739, 1-3.	1.7	57
186	Glial Calcium Signalling in Alzheimerâ€™s Disease. Reviews of Physiology, Biochemistry and Pharmacology, 2014, 167, 45-65.	0.9	57
187	Astroglial Calcium Signaling in Aging and Alzheimer's Disease. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035188.	2.3	56
188	Purinergic Signalling and the Nervous System. , 2012, , .		56
189	Capsaicin-induced depolarisation of mitochondria in dorsal root ganglion neurons is enhanced by vanilloid receptors. Neuroscience, 2001, 103, 219-226.	1.1	55
190	Xestospongin C empties the ER calcium store but does not inhibit InsP3-induced Ca2+ release in cultured dorsal root ganglia neurones. Cell Calcium, 2002, 32, 49-52.	1.1	55
191	Altered expression of Alzheimerâ€™s disease-related genes in the cerebellum of autistic patients: a model for disrupted brain connectome and therapy. Cell Death and Disease, 2014, 5, e1250-e1250.	2.7	55
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