

Alexei Verkhratsky

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497
papers

34,325
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96
h-index

171
g-index

566
ext. papers

40,186
ext. citations

5.8
avg, IF

7.91
L-index

#	Paper	IF	Citations
497	Neuroinflammation in Alzheimer's disease. <i>Lancet Neurology, The</i> , 2015 , 14, 388-405	24.1	2760
496	Physiology of microglia. <i>Physiological Reviews</i> , 2011 , 91, 461-553	47.9	2342
495	Microglia: new roles for the synaptic stripper. <i>Neuron</i> , 2013 , 77, 10-8	13.9	763
494	Purinergic signalling in the nervous system: an overview. <i>Trends in Neurosciences</i> , 2009 , 32, 19-29	13.3	630
493	Physiology and pathophysiology of the calcium store in the endoplasmic reticulum of neurons. <i>Physiological Reviews</i> , 2005 , 85, 201-79	47.9	592
492	Glial calcium: homeostasis and signaling function. <i>Physiological Reviews</i> , 1998 , 78, 99-141	47.9	580
491	Physiology of Astroglia. <i>Physiological Reviews</i> , 2018 , 98, 239-389	47.9	573
490	Microdomains for neuron-glia interaction: parallel fiber signaling to Bergmann glial cells. <i>Nature Neuroscience</i> , 1999 , 2, 139-43	25.5	541
489	Astrocytes: a central element in neurological diseases. <i>Acta Neuropathologica</i> , 2016 , 131, 323-45	14.3	436
488	Calcium signalling in glial cells. <i>Trends in Neurosciences</i> , 1996 , 19, 346-52	13.3	429
487	Ion channels in glial cells. <i>Brain Research Reviews</i> , 2000 , 32, 380-412		410
486	Glial cells in (patho)physiology. <i>Journal of Neurochemistry</i> , 2012 , 121, 4-27	6	392
485	Astroglia in dementia and Alzheimer's disease. <i>Cell Death and Differentiation</i> , 2009 , 16, 378-85	12.7	305
484	Astrocytes in Alzheimer's disease. <i>Neurotherapeutics</i> , 2010 , 7, 399-412	6.4	299
483	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021 , 24, 312-335		298
482	Concomitant astroglial atrophy and astrogliosis in a triple transgenic animal model of Alzheimer's disease. <i>Glia</i> , 2010 , 58, 831-8	9	289
481	NMDA receptors mediate neuron-to-glia signaling in mouse cortical astrocytes. <i>Journal of Neuroscience</i> , 2006 , 26, 2673-83	6.6	276

480	Physiological changes in glucose differentially modulate the excitability of hypothalamic melanin-concentrating hormone and orexin neurons in situ. <i>Journal of Neuroscience</i> , 2005 , 25, 2429-33	6.6	267
479	Impaired adult neurogenesis in the dentate gyrus of a triple transgenic mouse model of Alzheimer's disease. <i>PLoS ONE</i> , 2008 , 3, e2935	3.7	260
478	Calcium-induced calcium release in neurones. <i>Cell Calcium</i> , 1996 , 19, 1-14	4	251
477	Control of hypothalamic orexin neurons by acid and CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10685-90	11.5	243
476	Vesicular release of ATP at central synapses. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 452, 589-97	4.6	239
475	Astrocytes in physiological aging and Alzheimer's disease. <i>Neuroscience</i> , 2016 , 323, 170-82	3.9	238
474	Tandem-pore K ⁺ channels mediate inhibition of orexin neurons by glucose. <i>Neuron</i> , 2006 , 50, 711-22	13.9	235
473	Astrocytes as secretory cells of the central nervous system: idiosyncrasies of vesicular secretion. <i>EMBO Journal</i> , 2016 , 35, 239-57	13	230
472	Artifact versus reality--how astrocytes contribute to synaptic events. <i>Glia</i> , 2012 , 60, 1013-23	9	223
471	Neuroglia in neurodegeneration. <i>Brain Research Reviews</i> , 2010 , 63, 189-211		212
470	Evolutionary origins of the purinergic signalling system. <i>Acta Physiologica</i> , 2009 , 195, 415-47	5.6	207
469	Astroglial excitability and gliotransmission: an appraisal of Ca ²⁺ as a signalling route. <i>ASN Neuro</i> , 2012 , 4,	5.3	207
468	Glia: the fulcrum of brain diseases. <i>Cell Death and Differentiation</i> , 2007 , 14, 1324-35	12.7	206
467	Neuroglia: the 150 years after. <i>Trends in Neurosciences</i> , 2008 , 31, 653-9	13.3	204
466	Evolution of calcium homeostasis: from birth of the first cell to an omnipresent signalling system. <i>Cell Calcium</i> , 2007 , 42, 345-50	4	200
465	Glucose-sensing neurons of the hypothalamus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 2227-35	5.8	199
464	Calcium and neuronal ageing. <i>Trends in Neurosciences</i> , 1998 , 21, 2-7	13.3	195
463	Neurological diseases as primary gliopathies: a reassessment of neurocentrism. <i>ASN Neuro</i> , 2012 , 4,	5.3	190

462	NMDA Receptors in glia. <i>Neuroscientist</i> , 2007 , 13, 28-37	7.6	190
461	Purinoreceptors on neuroglia. <i>Molecular Neurobiology</i> , 2009 , 39, 190-208	6.2	187
460	Calcium signalling: past, present and future. <i>Cell Calcium</i> , 2005 , 38, 161-9	4	183
459	Ca ²⁺ regulation and gene expression in normal brain aging. <i>Trends in Neurosciences</i> , 2004 , 27, 614-20	13.3	179
458	Intraluminal calcium as a primary regulator of endoplasmic reticulum function. <i>Cell Calcium</i> , 2005 , 38, 303-10	4	179
457	Neuroinfection may contribute to pathophysiology and clinical manifestations of COVID-19. <i>Acta Physiologica</i> , 2020 , 229, e13473	5.6	178
456	Calcium signalling in astroglia. <i>Molecular and Cellular Endocrinology</i> , 2012 , 353, 45-56	4.4	176
455	Sodium dynamics: another key to astroglial excitability?. <i>Trends in Neurosciences</i> , 2012 , 35, 497-506	13.3	170
454	REVIEW: Oxytocin: Crossing the bridge between basic science and pharmacotherapy. <i>CNS Neuroscience and Therapeutics</i> , 2010 , 16, e138-56	6.8	168
453	The serotonergic system in ageing and Alzheimer's disease. <i>Progress in Neurobiology</i> , 2012 , 99, 15-41	10.9	166
452	Mechanisms of ATP- and glutamate-mediated calcium signaling in white matter astrocytes. <i>Glia</i> , 2008 , 56, 734-49	9	165
451	Calcium stores in neurons and glia. <i>Neuroscience</i> , 1994 , 63, 381-404	3.9	161
450	A dual role for interleukin-1 in LTP in mouse hippocampal slices. <i>Journal of Neuroimmunology</i> , 2003 , 144, 61-7	3.5	157
449	Astroglial cradle in the life of the synapse. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130595	5.8	155
448	Long-term (trophic) purinergic signalling: purinoreceptors control cell proliferation, differentiation and death. <i>Cell Death and Disease</i> , 2010 , 1, e9	9.8	155
447	The endoplasmic reticulum and neuronal calcium signalling. <i>Cell Calcium</i> , 2002 , 32, 393-404	4	151
446	Ca ²⁺ dynamics in the lumen of the endoplasmic reticulum in sensory neurons: direct visualization of Ca ²⁺ -induced Ca ²⁺ release triggered by physiological Ca ²⁺ entry. <i>EMBO Journal</i> , 2002 , 21, 622-30 ¹³	13	151
445	Pathophysiology of astroglial purinergic signalling. <i>Purinergic Signalling</i> , 2012 , 8, 629-57	3.8	147

444	P2X1 and P2X5 subunits form the functional P2X receptor in mouse cortical astrocytes. <i>Journal of Neuroscience</i> , 2008 , 28, 5473-80	6.6	147
443	Adenosine and ATP receptors in the brain. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 973-1011	3	146
442	Insulin prevents depolarization of the mitochondrial inner membrane in sensory neurons of type 1 diabetic rats in the presence of sustained hyperglycemia. <i>Diabetes</i> , 2003 , 52, 2129-36	0.9	146
441	The importance of being subtle: small changes in calcium homeostasis control cognitive decline in normal aging. <i>Aging Cell</i> , 2007 , 6, 267-73	9.9	144
440	Caffeine-induced calcium release from internal stores in cultured rat sensory neurons. <i>Neuroscience</i> , 1993 , 57, 845-59	3.9	144
439	Astrocyte glutamine synthetase: pivotal in health and disease. <i>Biochemical Society Transactions</i> , 2013 , 41, 1518-24	5.1	141
438	ATP-induced cytoplasmic calcium mobilization in Bergmann glial cells. <i>Journal of Neuroscience</i> , 1995 , 15, 7861-71	6.6	137
437	Collapsin response mediator protein-2 hyperphosphorylation is an early event in Alzheimer's disease progression. <i>Journal of Neurochemistry</i> , 2007 , 103, 1132-44	6	136
436	Calcium signalling in glial cells. <i>Cell Calcium</i> , 1998 , 24, 405-16	4	135
435	Glial calcium and diseases of the nervous system. <i>Cell Calcium</i> , 2010 , 47, 140-9	4	132
434	Endoplasmic reticulum Ca(2+) homeostasis and neuronal death. <i>Journal of Cellular and Molecular Medicine</i> , 2003 , 7, 351-61	5.6	131
433	Early astrocytic atrophy in the entorhinal cortex of a triple transgenic animal model of Alzheimer's disease. <i>ASN Neuro</i> , 2011 , 3, 271-9	5.3	130
432	Mechanisms of C5a and C3a complement fragment-induced [Ca ²⁺] _i signaling in mouse microglia. <i>Journal of Neuroscience</i> , 1997 , 17, 615-24	6.6	129
431	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?. <i>Molecular Neurodegeneration</i> , 2011 , 6, 55	19	128
430	Why are astrocytes important?. <i>Neurochemical Research</i> , 2015 , 40, 389-401	4.6	125
429	Activation of P2-purinoreceptors triggered Ca ²⁺ release from InsP3-sensitive internal stores in mammalian oligodendrocytes. <i>Journal of Physiology</i> , 1995 , 483 (Pt 1), 41-57	3.9	125
428	P2X receptors and synaptic plasticity. <i>Neuroscience</i> , 2009 , 158, 137-48	3.9	124
427	Glutamate-mediated neuronal-glial transmission. <i>Journal of Anatomy</i> , 2007 , 210, 651-60	2.9	123

426	Ca(2+) -dependent endoplasmic reticulum stress correlates with astrogliosis in oligomeric amyloid β -treated astrocytes and in a model of Alzheimer's disease. <i>Aging Cell</i> , 2013 , 12, 292-302	9.9	119
425	Ca ²⁺ stores and Ca ²⁺ entry differentially contribute to the release of IL-1 beta and IL-1 alpha from murine macrophages. <i>Journal of Immunology</i> , 2003 , 170, 3029-36	5.3	119
424	Ionotropic NMDA and P2X1/5 receptors mediate synaptically induced Ca ²⁺ signalling in cortical astrocytes. <i>Cell Calcium</i> , 2010 , 48, 225-31	4	118
423	Stratification of astrocytes in healthy and diseased brain. <i>Brain Pathology</i> , 2017 , 27, 629-644	6	117
422	Ca(2+) sources for the exocytotic release of glutamate from astrocytes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 984-91	4.9	117
421	Ryanodine receptor-mediated intracellular calcium release in rat cerebellar Purkinje neurones. <i>Journal of Physiology</i> , 1995 , 487, 1-16	3.9	117
420	Mitochondria and calcium in health and disease. <i>Cell Calcium</i> , 2008 , 44, 1-5	4	116
419	Quantal release of ATP in mouse cortex. <i>Journal of General Physiology</i> , 2007 , 129, 257-65	3.4	116
418	Purinergic transmission in the central nervous system. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 452, 479-85	4.6	116
417	Complex and region-specific changes in astroglial markers in the aging brain. <i>Neurobiology of Aging</i> , 2014 , 35, 15-23	5.6	114
416	Na ⁺ /Ca ²⁺ exchanger modulates kainate-triggered Ca ²⁺ signaling in Bergmann glial cells in situ. <i>FASEB Journal</i> , 1997 , 11, 566-72	0.9	114
415	Glia in the pathogenesis of neurodegenerative diseases. <i>Biochemical Society Transactions</i> , 2014 , 42, 1291-301	5.3	113
414	Insulin enhances mitochondrial inner membrane potential and increases ATP levels through phosphoinositide 3-kinase in adult sensory neurons. <i>Molecular and Cellular Neurosciences</i> , 2005 , 28, 42-54	4.8	113
413	The endoplasmic reticulum as an integrating signalling organelle: from neuronal signalling to neuronal death. <i>European Journal of Pharmacology</i> , 2002 , 447, 141-54	5.3	112
412	Activation of mouse microglial cells affects P2 receptor signaling. <i>Brain Research</i> , 2000 , 853, 49-59	3.7	110
411	2013 ,		110
410	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. <i>Nature Neuroscience</i> , 2019 , 22, 7-14	25.5	108
409	Membrane currents and cytoplasmic sodium transients generated by glutamate transport in Bergmann glial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2007 , 454, 245-52	4.6	106

408	Astrocytic cytoskeletal atrophy in the medial prefrontal cortex of a triple transgenic mouse model of Alzheimer's disease. <i>Journal of Anatomy</i> , 2012 , 221, 252-62	2.9	105
407	Astroglipathology: a central element of neuropsychiatric diseases?. <i>Neuroscientist</i> , 2014 , 20, 576-88	7.6	102
406	Crosstalk Between MAPK/ERK and PI3K/AKT Signal Pathways During Brain Ischemia/Reperfusion. <i>ASN Neuro</i> , 2015 , 7,	5.3	102
405	Astroglipathology in neurological, neurodevelopmental and psychiatric disorders. <i>Neurobiology of Disease</i> , 2016 , 85, 254-261	7.5	101
404	Astroglia in neurological diseases. <i>Future Neurology</i> , 2013 , 8, 149-158	1.5	96
403	Ionotropic P2X purinoreceptors mediate synaptic transmission in rat pyramidal neurones of layer II/III of somato-sensory cortex. <i>Journal of Physiology</i> , 2002 , 542, 529-36	3.9	96
402	Calcium-induced calcium release in rat sensory neurons. <i>Journal of Physiology</i> , 1995 , 489 (Pt 3), 627-36	3.9	96
401	Aberrant iPSC-derived human astrocytes in Alzheimer's disease. <i>Cell Death and Disease</i> , 2017 , 8, e2696	9.8	95
400	Neurogenesis in Alzheimer's disease. <i>Journal of Anatomy</i> , 2011 , 219, 78-89	2.9	94
399	Physiology of neuronal-glia networking. <i>Neurochemistry International</i> , 2010 , 57, 332-43	4.4	94
398	Calcium signalling in mouse Bergmann glial cells mediated by alpha1-adrenoreceptors and H1 histamine receptors. <i>European Journal of Neuroscience</i> , 1996 , 8, 1198-208	3.5	94
397	2007 ,		93
396	Psychiatric face of COVID-19. <i>Translational Psychiatry</i> , 2020 , 10, 261	8.6	93
395	Biology of purinergic signalling: its ancient evolutionary roots, its omnipresence and its multiple functional significance. <i>BioEssays</i> , 2014 , 36, 697-705	4.1	91
394	Ionotropic receptors in neuronal-astroglial signalling: what is the role of "excitable" molecules in non-excitable cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 992-1002	4.9	89
393	The birth and postnatal development of purinergic signalling. <i>Acta Physiologica</i> , 2010 , 199, 93-147	5.6	89
392	Long-term activation of capacitative Ca ²⁺ entry in mouse microglial cells. <i>Neuroscience</i> , 1998 , 86, 925-35	3.9	88
391	Neuronal calcium stores. <i>Cell Calcium</i> , 1998 , 24, 333-43	4	86

390	ATP-induced membrane currents in amoeboid microglia acutely isolated from mouse brain slices. <i>Neuroscience</i> , 1996 , 75, 257-61	3.9	86
389	Homeostatic function of astrocytes: Ca ²⁺ and Na ⁺ signalling. <i>Translational Neuroscience</i> , 2012 , 3, 334-344	8.5	
388	Astroglia dynamics in ageing and Alzheimer's disease. <i>Current Opinion in Pharmacology</i> , 2016 , 26, 74-9	5.1	84
387	Principles of sodium homeostasis and sodium signalling in astroglia. <i>Glia</i> , 2016 , 64, 1611-27	9	82
386	P2X receptors and their roles in astroglia in the central and peripheral nervous system. <i>Neuroscientist</i> , 2012 , 18, 422-38	7.6	81
385	The glial perspective of autism spectrum disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2014 , 38, 160-72	9	80
384	Diabetes-induced alterations in calcium homeostasis in sensory neurones of streptozotocin-diabetic rats are restricted to lumbar ganglia and are prevented by neurotrophin-3. <i>Diabetologia</i> , 2002 , 45, 560-70	10.3	79
383	Monitoring of free calcium in the neuronal endoplasmic reticulum: an overview of modern approaches. <i>Journal of Neuroscience Methods</i> , 2002 , 122, 1-12	3	79
382	Pannexin 1 forms an anion-selective channel. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 463, 585-92	4.6	78
381	Plasmalemmal Na ⁺ /Ca ²⁺ exchanger modulates Ca ²⁺ -dependent exocytotic release of glutamate from rat cortical astrocytes. <i>ASN Neuro</i> , 2012 , 4,	5.3	78
380	Astrocytes and glutamate homeostasis in Alzheimer's disease: a decrease in glutamine synthetase, but not in glutamate transporter-1, in the prefrontal cortex. <i>ASN Neuro</i> , 2013 , 5, 273-82	5.3	76
379	Neuronal endoplasmic reticulum acts as a single functional Ca ²⁺ store shared by ryanodine and inositol-1,4,5-trisphosphate receptors as revealed by intra-ER [Ca ²⁺] recordings in single rat sensory neurones. <i>Pflügers Archiv European Journal of Physiology</i> , 2003 , 446, 447-54	4.6	73
378	Different properties of caffeine-sensitive Ca ²⁺ stores in peripheral and central mammalian neurones. <i>Pflügers Archiv European Journal of Physiology</i> , 1994 , 426, 174-6	4.6	73
377	Translational potential of astrocytes in brain disorders. <i>Progress in Neurobiology</i> , 2016 , 144, 188-205	10.9	72
376	Ca ²⁺ Channel Expression in the Oligodendrocyte Lineage. <i>European Journal of Neuroscience</i> , 1992 , 4, 1035-1048	3.5	72
375	Impaired cell proliferation in the subventricular zone in an Alzheimer's disease model. <i>NeuroReport</i> , 2009 , 20, 907-12	1.7	71
374	Neuronal ageing from an intraneuronal perspective: roles of endoplasmic reticulum and mitochondria. <i>Cell Calcium</i> , 2003 , 34, 311-23	4	70
373	Amyloid- β and Alzheimer's disease type pathology differentially affects the calcium signalling toolkit in astrocytes from different brain regions. <i>Cell Death and Disease</i> , 2013 , 4, e623	9.8	68

372	Age-dependent remodelling of ionotropic signalling in cortical astroglia. <i>Aging Cell</i> , 2011 , 10, 392-402	9.9	68
371	Increase in the density of resting microglia precedes neuritic plaque formation and microglial activation in a transgenic model of Alzheimer's disease. <i>Cell Death and Disease</i> , 2010 , 1, e1	9.8	68
370	Neuronal-glia networks as substrate for CNS integration. <i>Journal of Cellular and Molecular Medicine</i> , 2006 , 10, 826-36	5.6	68
369	Voluntary running and environmental enrichment restores impaired hippocampal neurogenesis in a triple transgenic mouse model of Alzheimer's disease. <i>Current Alzheimer Research</i> , 2011 , 8, 707-17	3	67
368	Calcium homeostasis in aged neurones. <i>Life Sciences</i> , 1996 , 59, 451-9	6.8	67
367	The homeostatic astroglia emerges from evolutionary specialization of neural cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	67
366	Glutamate-triggered calcium signalling in mouse bergmann glial cells in situ: role of inositol-1,4,5-trisphosphate-mediated intracellular calcium release. <i>Neuroscience</i> , 1999 , 92, 1051-9	3.9	66
365	Dual action of thapsigargin on calcium mobilization in sensory neurons: inhibition of Ca ²⁺ uptake by caffeine-sensitive pools and blockade of plasmalemmal Ca ²⁺ channels. <i>Neuroscience</i> , 1995 , 65, 1109-18	3.9	66
364	Mechanism of mitochondrial dysfunction in diabetic sensory neuropathy. <i>Journal of the Peripheral Nervous System</i> , 2003 , 8, 227-35	4.7	65
363	Glial Asthenia and Functional Paralysis: A New Perspective on Neurodegeneration and Alzheimer's Disease. <i>Neuroscientist</i> , 2015 , 21, 552-568	7.6	64
362	Where the thoughts dwell: the physiology of neuronal-glia "diffuse neural net". <i>Brain Research Reviews</i> , 2011 , 66, 133-51		64
361	Mitochondrial malfunction and Ca ²⁺ dyshomeostasis drive neuronal pathology in diabetes. <i>Cell Calcium</i> , 2008 , 44, 112-22	4	64
360	Calcium currents in aged rat dorsal root ganglion neurones. <i>Journal of Physiology</i> , 1993 , 461, 467-83	3.9	64
359	Subcellular heterogeneity of voltage-gated Ca ²⁺ channels in cells of the oligodendrocyte lineage. <i>Glia</i> , 1995 , 13, 1-12	9	64
358	Neuroglial roots of neurodegenerative diseases?. <i>Molecular Neurobiology</i> , 2011 , 43, 87-96	6.2	63
357	Age-related structural and functional changes of brain mitochondria. <i>Cell Calcium</i> , 2000 , 28, 329-38	4	62
356	Activation of P2-purino-, alpha 1-adreno and H1-histamine receptors triggers cytoplasmic calcium signalling in cerebellar Purkinje neurons. <i>Neuroscience</i> , 1996 , 73, 643-7	3.9	61
355	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. <i>European Journal of Neuroscience</i> , 2007 , 25, 3030-8	3.5	60

354	Neurotrophin-3 prevents mitochondrial dysfunction in sensory neurons of streptozotocin-diabetic rats. <i>Experimental Neurology</i> , 2005 , 194, 279-83	5.7	59
353	Age-dependent changes in calcium currents and calcium homeostasis in mammalian neurons. <i>Annals of the New York Academy of Sciences</i> , 1994 , 747, 365-81	6.5	59
352	Role of caffeine-sensitive Ca ²⁺ stores in Ca ²⁺ signal termination in adult mouse DRG neurones. <i>NeuroReport</i> , 1994 , 5, 2073-6	1.7	59
351	Cultured glial precursor cells from mouse cortex express two types of calcium currents. <i>Neuroscience Letters</i> , 1990 , 112, 194-8	3.3	59
350	Apoptosis-associated speck-like protein containing a CARD forms specks but does not activate caspase-1 in the absence of NLRP3 during macrophage swelling. <i>Journal of Immunology</i> , 2015 , 194, 1261-73	5.3	58
349	Enriched environment and physical activity reverse astroglial degeneration in the hippocampus of AD transgenic mice. <i>Cell Death and Disease</i> , 2013 , 4, e678	9.8	58
348	Different action of ethosuximide on low- and high-threshold calcium currents in rat sensory neurons. <i>Neuroscience</i> , 1992 , 51, 755-8	3.9	58
347	Measurements of intracellular calcium in sensory neurons of adult and old rats. <i>Neuroscience</i> , 1992 , 50, 947-51	3.9	57
346	Ca ²⁺ and mitochondria as substrates for deficits in synaptic plasticity in normal brain ageing. <i>Journal of Cellular and Molecular Medicine</i> , 2004 , 8, 181-90	5.6	56
345	The ancient roots of calcium signalling evolutionary tree. <i>Cell Calcium</i> , 2015 , 57, 123-32	4	55
344	From Galvani to patch clamp: the development of electrophysiology. <i>Pflügers Archiv European Journal of Physiology</i> , 2006 , 453, 233-47	4.6	55
343	Memory Formation Shaped by Astroglia. <i>Frontiers in Integrative Neuroscience</i> , 2015 , 9, 56	3.2	54
342	Differential deregulation of astrocytic calcium signalling by amyloid- β , TNF α , IL-1 α and LPS. <i>Cell Calcium</i> , 2014 , 55, 219-29	4	54
341	ATP induces Ca ²⁺ release from IP ₃ -sensitive Ca ²⁺ stores exclusively in large DRG neurones. <i>NeuroReport</i> , 1997 , 8, 1555-9	1.7	54
340	Store-operated calcium entry in neuroglia. <i>Neuroscience Bulletin</i> , 2014 , 30, 125-33	4.3	53
339	Recent advances in (patho)physiology of astroglia. <i>Acta Pharmacologica Sinica</i> , 2010 , 31, 1044-54	8	53
338	Relations between intracellular Ca ²⁺ stores and store-operated Ca ²⁺ entry in primary cultured human glioblastoma cells. <i>Journal of Physiology</i> , 1998 , 513 (Pt 2), 411-24	3.9	53
337	Endoplasmic reticulum calcium tunnels integrate signalling in polarised cells. <i>Cell Calcium</i> , 2007 , 42, 373-8	3.7	53

336	P2X receptor-mediated excitatory synaptic currents in somatosensory cortex. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 842-9	4.8	53
335	Calcium and cell death. <i>Sub-Cellular Biochemistry</i> , 2007 , 45, 465-80	5.5	52
334	Assessment of mitochondrial polarization status in living cells based on analysis of the spatial heterogeneity of rhodamine 123 fluorescence staining. <i>Pflugers Archiv European Journal of Physiology</i> , 2000 , 440, 941-7	4.6	51
333	Capsaicin-induced depolarisation of mitochondria in dorsal root ganglion neurons is enhanced by vanilloid receptors. <i>Neuroscience</i> , 2001 , 103, 219-26	3.9	50
332	Neuropathobiology of COVID-19: The Role for Glia. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 592214	6.1	50
331	Crosslink between calcium and sodium signalling. <i>Experimental Physiology</i> , 2018 , 103, 157-169	2.4	50
330	Xestospongins empty the ER calcium store but do not inhibit InsP3-induced Ca ²⁺ release in cultured dorsal root ganglion neurons. <i>Cell Calcium</i> , 2002 , 32, 49-52	4	49
329	Complex and differential glial responses in Alzheimer's disease and ageing. <i>Current Alzheimer Research</i> , 2016 , 13, 343-58	3	49
328	Vas deferens—a model used to establish sympathetic cotransmission. <i>Trends in Pharmacological Sciences</i> , 2010 , 31, 131-9	13.2	48
327	Parameters of calcium homeostasis in normal neuronal ageing. <i>Journal of Anatomy</i> , 2000 , 197 Pt 4, 563-9	2.9	48
326	Gradual caffeine-induced Ca ²⁺ release in mouse dorsal root ganglion neurons is controlled by cytoplasmic and luminal Ca ²⁺ . <i>Neuroscience</i> , 1996 , 73, 1061-7	3.9	48
325	Astroglial atrophy in Alzheimer's disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2019 , 471, 1247-1261	4.7	47
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