

CITATION REPORT

List of articles citing

General anesthesia selectively disrupts astrocyte calcium signaling in the awake mouse cortex

DOI: 10.1073/pnas.1209448109

Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18974-9.

Source: <https://exaly.com/paper-pdf/52365830/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
227	In vivo stimulus-induced vasodilation occurs without IP3 receptor activation and may precede astrocytic calcium increase. 2013 , 33, 8411-22		168
226	Astroglial regulation of sleep homeostasis. 2013 , 23, 812-8		54
225	Mechanisms for L-channel-mediated increase in $[Ca^{2+}]_i$ and its reduction by anti-bipolar drugs in cultured astrocytes combined with its mRNA expression in freshly isolated cells support the importance of astrocytic L-channels. 2013 , 54, 335-42		38
224	Ammonia triggers neuronal disinhibition and seizures by impairing astrocyte potassium buffering. 2013 , 19, 1643-8		169
223	Rapid stimulus-evoked astrocyte Ca^{2+} elevations and hemodynamic responses in mouse somatosensory cortex in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4678-87	11.5	131
222	Glutamate-dependent neuroglial calcium signaling differs between young and adult brain. 2013 , 339, 197-200		370
221	Astrocyte domains and the three-dimensional and seamless expression of consciousness and explicit memories. 2013 , 81, 1017-24		32
220	astrocytic Ca signaling in health and brain disorders. 2013 , 8, 529-554		17
219	Astrocyte regulation of cerebral vascular tone. 2013 , 305, H609-19		77
218	β -Adrenergic receptors mediate coordinated Ca^{2+} signaling of cortical astrocytes in awake, behaving mice. 2013 , 54, 387-94		258
217	A Commentary On De Sousa's "Towards An Integrative Theory Of Consciousness". 2013 , 11, 210-29		1
216	A link between glial Ca^{2+} signaling and hypoxia in aging?. 2013 , 33, 170		4
215	Migraine: a brain state. 2013 , 26, 235-9		50
214	Anaesthetic neurotoxicity and neuroplasticity: an expert group report and statement based on the BJA Salzburg Seminar. 2013 , 111, 143-51		186
213	Paravascular microcirculation facilitates rapid lipid transport and astrocyte signaling in the brain. 2013 , 3, 2582		114
212	^{13}C NMR metabolomic evaluation of immediate and delayed mild hypothermia in cerebrocortical slices after oxygen-glucose deprivation. 2013 , 119, 1120-36		12
211	The calcium wave model of the perception-action cycle: evidence from semantic relevance in memory experiments. 2013 , 4, 252		7

210	Astrocytes: can they be the missing stars linking neuronal activity to neurofunctional imaging signals?. 2013 , 7, 21		6
209	Neurophysiological, metabolic and cellular compartments that drive neurovascular coupling and neuroimaging signals. 2013 , 5, 3		14
208	All brains are made of this: a fundamental building block of brain matter with matching neuronal and glial masses. 2014 , 8, 127		41
207	Astrocyte IP3R2-dependent Ca(2+) signaling is not a major modulator of neuronal pathways governing behavior. 2014 , 8, 384		74
206	The contribution of astrocytes to the regulation of cerebral blood flow. <i>Frontiers in Neuroscience</i> , 2014 , 8, 103	5.1	108
205	Triple-aspect monism: physiological, mental unconscious and conscious aspects of brain activity. 2014 , 13, 201-27		11
204	Characterization of the BAC Id3-enhanced green fluorescent protein transgenic mouse line for in vivo imaging of astrocytes. 2014 , 1, 011014		4
203	Functional ultrasound imaging reveals different odor-evoked patterns of vascular activity in the main olfactory bulb and the anterior piriform cortex. 2014 , 95, 176-84		65
202	Information Integration in the Brain: Modeling a Putative Function of the Astroglial Network. 2014 , 159-169		
201	Diversity of astroglial functions alludes to subcellular specialisation. 2014 , 37, 228-42		56
200	The glia/neuron ratio: how it varies uniformly across brain structures and species and what that means for brain physiology and evolution. 2014 , 62, 1377-91		306
199	Cortical maps: a role for astrocytes?. 2014 , 24, 176-89		38
198	Metabotropic P2Y1 receptor signalling mediates astrocytic hyperactivity in vivo in an Alzheimer's disease mouse model. 2014 , 5, 5422		147
197	In vivo visualization of subtle, transient, and local activity of astrocytes using an ultrasensitive Ca(2+) indicator. 2014 , 8, 311-8		119
196	Imaging activity in neurons and glia with a Polr2a-based and cre-dependent GCaMP5G-IRES-tdTomato reporter mouse. 2014 , 83, 1058-72		77
195	Astrocyte regulation of synaptic behavior. 2014 , 30, 439-63		182
194	Astrocytic Gq-GPCR-linked IP3R-dependent Ca2+ signaling does not mediate neurovascular coupling in mouse visual cortex in vivo. 2014 , 34, 13139-50		136
193	Norepinephrine controls astroglial responsiveness to local circuit activity. 2014 , 82, 1263-70		342

192	Glutamate and ATP at the Interface of Metabolism and Signaling in the Brain. 2014,	5
191	Spreading depression: evidence of five electroencephalogram phases. 2014, 92, 1384-94	3
190	A procedure for implanting a spinal chamber for longitudinal in vivo imaging of the mouse spinal cord. 2014,	6
189	LFP-guided targeting of a cortical barrel column for in vivo two-photon calcium imaging. 2015, 5, 15905	3
188	Comparison of stimulus-evoked cerebral hemodynamics in the awake mouse and under a novel anesthetic regime. 2015, 5, 12621	23
187	Acute two-photon imaging of the neurovascular unit in the cortex of active mice. 2015, 9, 11	24
186	Optogenetics. 2015,	10
185	Astrocyte contributions to flow/pressure-evoked parenchymal arteriole vasoconstriction. 2015, 35, 8245-57	63
184	The functional role of astrocyte calcium signaling in cortical blood flow regulation. 2015, 35, 868-70	3
183	Astrocyte and microvascular imaging in awake animals using two-photon microscopy. 2015, 22, 219-27	19
182	Astrocyte calcium signaling: from observations to functions and the challenges therein. 2015, 7, a020404	125
181	Quantitative separation of arterial and venous cerebral blood volume increases during voluntary locomotion. 2015, 105, 369-79	39
180	Ca(2+) signaling in astrocytes from Ip3r2(-/-) mice in brain slices and during startle responses in vivo. 2015, 18, 708-17	293
179	Distinct functional states of astrocytes during sleep and wakefulness: Is norepinephrine the master regulator?. 2015, 1, 1-8	40
178	Imaging learned fear circuitry in awake mice using fMRI. 2015, 42, 2125-34	38
177	Disruption of IPR2-mediated Ca ²⁺ signaling pathway in astrocytes ameliorates neuronal death and brain damage while reducing behavioral deficits after focal ischemic stroke. 2015, 58, 565-76	33
176	The Neurovascular Unit and the Role of Astrocytes in the Regulation of Vascular Tone. 2015, 2, 1-60	1
175	A critical role for purinergic signalling in the mechanisms underlying generation of BOLD fMRI responses. 2015, 35, 5284-92	42

174	How do astrocytes participate in neural plasticity?. 2014 , 7, a020438	85
173	Quantum Wave Information of Life Revealed: An Algorithm for Electromagnetic Frequencies that Create Stability of Biological Order, With Implications for Brain Function and Consciousness. 2016 , 14,	13
172	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. 2016 , 10, 64	19
171	Subanesthetic doses of ketamine stabilize the fusion pore in a narrow flickering state in astrocytes. 2016 , 138, 909-17	20
170	Sevoflurane Inhibits Glutamate-Aspartate Transporter and Glial Fibrillary Acidic Protein Expression in Hippocampal Astrocytes of Neonatal Rats Through the Janus Kinase/Signal Transducer and Activator of Transcription (JAK/STAT) Pathway. 2016 , 123, 93-102	21
169	Cerebral microcirculatory failure after subarachnoid hemorrhage is reversed by hyaluronidase. 2016 , 36, 1537-52	22
168	Changes in the composition of brain interstitial ions control the sleep-wake cycle. 2016 , 352, 550-5	175
167	Physiological effects of a habituation procedure for functional MRI in awake mice using a cryogenic radiofrequency probe. 2016 , 274, 38-48	46
166	Spatial organization of astrocytes in ferret visual cortex. 2016 , 524, 3561-3576	25
165	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. 2016 , 64, 5-20	41
164	The role of brain-derived neurotrophic factor in learned fear processing: an awake rat fMRI study. 2016 , 15, 221-30	14
163	Astrocytes as a Target for Ischemic Stroke. 2016 , 111-131	
162	Inhibition of astrocyte metabolism is not the primary mechanism for anaesthetic hypnosis. 2016 , 5, 1041	8
161	Sensory Response of Transplanted Astrocytes in Adult Mammalian Cortex In Vivo. 2016 , 26, 3690-3704	9
160	Visualization of diversity of calcium signals in astrocytes. 2016 , 148, 75-80	0
159	General anesthetics have differential inhibitory effects on gap junction channels and hemichannels in astrocytes and neurons. 2016 , 64, 524-36	31
158	Correlation of hemodynamic and fluorescence signals under resting state conditions in mice's barrel field cortex. 2016 , 616, 177-81	3
157	Effects of arundic acid, an astrocytic modulator, on the cerebral and respiratory functions in severe hypoxia. 2016 , 226, 24-9	13

156	Reactive astrocytes and therapeutic potential in focal ischemic stroke. 2016 , 85, 234-244	139
155	Astrocyte calcium signaling: the third wave. 2016 , 19, 182-9	469
154	Ketamine Inhibits ATP-Evoked Exocytotic Release of Brain-Derived Neurotrophic Factor from Vesicles in Cultured Rat Astrocytes. 2016 , 53, 6882-6896	38
153	Heterogeneous astrocytes: Active players in CNS. 2016 , 125, 1-18	50
152	Probing the Complexities of Astrocyte Calcium Signaling. 2016 , 26, 300-312	146
151	The fiber-optic imaging and manipulation of neural activity during animal behavior. 2016 , 103, 1-9	42
150	Beyond neurovascular coupling, role of astrocytes in the regulation of vascular tone. 2016 , 323, 96-109	124
149	Astroglial Scarring and Seizures: A Cell Biological Perspective on Epilepsy. 2017 , 23, 152-168	32
148	Time to wake up: Studying neurovascular coupling and brain-wide circuit function in the un-anesthetized animal. 2017 , 153, 382-398	92
147	Background norepinephrine primes astrocytic calcium responses to subsequent norepinephrine stimuli in the cerebral cortex. 2017 , 483, 732-738	9
146	Mechanical stress activates NMDA receptors in the absence of agonists. 2017 , 7, 39610	41
145	Deletion of Aquaporin-4 Curtails Extracellular Glutamate Elevation in Cortical Spreading Depression in Awake Mice. 2017 , 27, 24-33	14
144	Astroglial hydro-ionic waves guided by the extracellular matrix: An exploratory model. 2017 , 16, 57-72	8
143	Does Global Astrocytic Calcium Signaling Participate in Awake Brain State Transitions and Neuronal Circuit Function?. 2017 , 42, 1810-1822	20
142	Characterisation and functional mapping of surface potentials in the rat dorsal column nuclei. 2017 , 595, 4507-4524	11
141	A holistic approach to anesthesia-induced neurotoxicity and its implications for future mechanistic studies. 2017 , 60, 24-32	25
140	Isoflurane exposure regulates the cell viability and BDNF expression of astrocytes via upregulation of TREK-1. 2017 , 16, 7305-7314	12
139	Weak correlations between hemodynamic signals and ongoing neural activity during the resting state. 2017 , 20, 1761-1769	87

138	New Tools to Study Astrocyte Ca Signal Dynamics in Brain Networks. 2017 , 11, 134	27
137	Direct posttranslational modification of astrocytic connexin 43 proteins by the general anesthetic propofol in the cerebral cortex. 2018 , 497, 734-741	3
136	Neurovascular dysfunction in dementia - human cellular models and molecular mechanisms. 2018 , 132, 399-418	15
135	Interneuron-specific signaling evokes distinctive somatostatin-mediated responses in adult cortical astrocytes. 2018 , 9, 82	51
134	P2Y1 receptor blockade normalizes network dysfunction and cognition in an Alzheimer's disease model. 2018 , 215, 1649-1663	47
133	Long-term In Vivo Calcium Imaging of Astrocytes Reveals Distinct Cellular Compartment Responses to Sensory Stimulation. 2018 , 28, 184-198	57
132	Astrocytes Integrate Behavioral State and Vascular Signals during Functional Hyperemia. 2018 , 100, 1133-1148	43
131	Astrocytes in the mouse visual cortex reliably respond to visual stimulation. 2018 , 505, 1216-1222	15
130	Ca ²⁺ Signals in Astrocytes Facilitate Spread of Epileptiform Activity. 2018 , 28, 4036-4048	28
129	Astrocytic Ca responses in the spinal dorsal horn by noxious stimuli to the skin. 2018 , 137, 101-104	10
128	Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. 2018 , 66, 2013-2023	44
127	Synchronized Astrocytic Ca Responses in Neurovascular Coupling during Somatosensory Stimulation and for the Resting State. 2018 , 23, 3878-3890	33
126	Physiology of Astroglia. 2018 , 98, 239-389	573
125	Physiological Considerations of Functional Magnetic Resonance Imaging in Animal Models. 2019 , 4, 522-532	8
124	Bioresorbable photonic devices for the spectroscopic characterization of physiological status and neural activity. 2019 , 3, 644-654	58
123	Long-term imaging of dorsal root ganglia in awake behaving mice. 2019 , 10, 3087	19
122	Astroglial endfeet exhibit distinct Ca signals during hypoosmotic conditions. 2019 , 67, 2399-2409	9
121	Astrocyte Specific Remodeling of Plasmalemmal Cholesterol Composition by Ketamine Indicates a New Mechanism of Antidepressant Action. 2019 , 9, 10957	18

120	Ketamine Within Clinically Effective Range Inhibits Glutamate Transmission From Astrocytes to Neurons and Disrupts Synchronization of Astrocytic SICs. 2019 , 13, 240	9
119	Astroglial dysfunctions drive aberrant synaptogenesis and social behavioral deficits in mice with neonatal exposure to lengthy general anesthesia. 2019 , 17, e3000086	22
118	Hippocampal astrocyte dysfunction contributes to etomidate-induced long-lasting synaptic inhibition. 2019 , 519, 803-811	3
117	Changes in auditory thalamus neural firing patterns after acoustic trauma in rats. 2019 , 379, 89-97	9
116	Intravital microscopy: Imaging host-parasite interactions in the brain. 2019 , 21, e13024	10
115	Astrocyte morphology: Diversity, plasticity, and role in neurological diseases. 2019 , 25, 665-673	61
114	Aquaporin-4-independent volume dynamics of astroglial endfeet during cortical spreading depression. 2019 , 67, 1113-1121	8
113	Mitochondrial Function in Astrocytes Is Essential for Normal Emergence from Anesthesia in Mice. 2019 , 130, 423-434	13
112	Spontaneous astrocytic Ca activity abounds in electrically suppressed ischemic penumbra of aged mice. 2019 , 67, 37-52	9
111	Astrocytes. 2019 ,	
110	Examining the Coverage of Blood Vessels by Astrocyte Endfeet in an Animal Model of Major Depressive Disorder. 2019 , 1938, 255-263	2
109	Twitches, Blinks, and Fidgets: Important Generators of Ongoing Neural Activity. 2019 , 25, 298-313	20
108	Astroglial Mechanisms of Ketamine Action Include Reduced Mobility of Kir4.1-Carrying Vesicles. 2020 , 45, 109-121	9
107	Network analysis identifies consensus physiological measures of neurovascular coupling in humans. 2020 , 40, 656-666	8
106	Spontaneous Ultraslow Na Fluctuations in the Neonatal Mouse Brain. 2019 , 9,	5
105	Cell Calcium Imaging as a Reliable Method to Study Neuron-Glial Circuits. <i>Frontiers in Neuroscience</i> , 2020 , 14, 569361	5.1 10
104	Classical-quantum interfaces in living neural tissue supporting conscious functions. 2020 , 213-252	1
103	Ketamine/xylazine and barbiturates modulate microglial morphology and motility differently in a mouse model. 2020 , 15, e0236594	6

102	Astrocytes modulate sensory-evoked neuronal network activity. 2020 , 11, 3689	33
101	Isoflurane inhibits a Kir4.1/5.1-like conductance in neonatal rat brainstem astrocytes and recombinant Kir4.1/5.1 channels in a heterologous expression system. 2020 , 124, 740-749	3
100	Vasculo-Neuronal Coupling and Neurovascular Coupling at the Neurovascular Unit: Impact of Hypertension. 2020 , 11, 584135	13
99	Making sense of astrocytic calcium signals - from acquisition to interpretation. 2020 , 21, 551-564	54
98	Intracellular ATP levels in mouse cortical excitatory neurons varies with sleep-wake states. 2020 , 3, 491	8
97	Monitoring Astrocytic Ca Activity in Freely Behaving Mice. 2020 , 14, 603095	2
96	The Ketamine Antidepressant Story: New Insights. 2020 , 25,	3
95	Astrocytes in Atp1a2-deficient heterozygous mice exhibit hyperactivity after induction of cortical spreading depression. 2020 , 10, 1031-1043	1
94	Interstitial ions: A key regulator of state-dependent neural activity?. 2020 , 193, 101802	28
93	Astrocytes in rapid ketamine antidepressant action. 2020 , 173, 108158	14
92	Optical measurement of microvascular oxygenation and blood flow responses in awake mouse cortex during functional activation. 2020 , 271678X20928011	10
91	Local Resting Ca Controls the Scale of Astroglial Ca Signals. 2020 , 30, 3466-3477.e4	13
90	Anesthesia enhances spontaneous low-frequency oscillations in the brain. 2020 , 31, 394-398	1
89	Astrocytic Ca signaling is reduced during sleep and is involved in the regulation of slow wave sleep. 2020 , 11, 3240	40
88	Hippocampal microglial activation triggers a neurotoxic-specific astrocyte response and mediates etomidate-induced long-term synaptic inhibition. 2020 , 17, 109	17
87	Glial Connexins and Pannexins in the Healthy and Diseased Brain. 2021 , 101, 93-145	35
86	Cortical astrocytes regulate ethanol consumption and intoxication in mice. 2021 , 46, 500-508	19
85	The Vasomotor Response to Dopamine Is Altered in the Rat Model of l-dopa-Induced Dyskinesia. 2021 , 36, 938-947	2

84	Imaging and optogenetic modulation of vascular mural cells in the live brain. 2021 , 16, 472-496	10
83	Putative roles of astrocytes in general anesthesia. 2021 ,	2
82	All-Tissue-like Multifunctional Optoelectronic Mesh for Deep-Brain Modulation and Mapping. 2021 , 21, 3184-3190	1
81	Transient Astrocytic Gq Signaling Underlies Remote Memory Enhancement. 2021 , 15, 658343	5
80	Editorial: Glial Cells, Maladaptive Plasticity, and Neurodegeneration: Mechanisms, Targeted Therapies, and Future Directions. 2021 , 15, 682524	
79	Adrenergic inhibition facilitates normalization of extracellular potassium after cortical spreading depolarization. 2021 , 11, 8150	5
78	Begonia-A Two-Photon Imaging Analysis Pipeline for Astrocytic Ca Signals. 2021 , 15, 681066	4
77	Region-Specific and State-Dependent Astrocyte Ca Dynamics during the Sleep-Wake Cycle in Mice. 2021 , 41, 5440-5452	1
76	Astrocytic mitochondria in adult mouse brain slices show spontaneous calcium influx events with unique properties. 2021 , 96, 102383	5
75	Ketamine Alters Functional Plasticity of Astroglia: An Implication for Antidepressant Effect. 2021 , 11,	1
74	Potential and Realized Impact of Astroglia Ca Dynamics on Circuit Function and Behavior. 2021 , 15, 682888	1
73	Origins of 1/f-like tissue oxygenation fluctuations in the murine cortex. 2021 , 19, e3001298	2
72	Two-photon calcium imaging of neuronal and astrocytic responses: the influence of electrical stimulus parameters and calcium signaling mechanisms. 2021 , 18,	0
71	Hippocampal Astrocytes Encode Reward Location.	1
70	Versatile Surface Electrodes for Combined Electrophysiology and Two-Photon Imaging of the Mouse Central Nervous System. 2021 , 15, 720675	1
69	Elucidating regulators of astrocytic Ca signaling via multi-threshold event detection (MTED). 2021 , 69, 2798-2811	1
68	Neuron-astrocyte networking: astrocytes orchestrate and respond to changes in neuronal network activity across brain states and behaviors. 2021 , 126, 627-636	1
67	Angiotensin II Disrupts Neurovascular Coupling by Potentiating Calcium Increases in Astrocytic Endfeet. 2021 , 10, e020608	1

66	Spatiotemporal components of sustained functional hyperemia are differentially modulated by locomotion and silenced with vascular chemogenetics.	1
65	Imaging Vasodynamics in the Awake Mouse Brain with Two-Photon Microscopy. 2014 , 55-73	4
64	Ca(2+) signaling in astrocytes and its role in ischemic stroke. 2014 , 11, 189-211	17
63	Two-Photon Imaging of Cerebral Vasodynamics in Awake Mice During Health and Disease. 2014 , 25-43	2
62	The effect of general anaesthetics on brain lactate release. 2020 , 881, 173188	6
61	Effect of Cerebrospinal Fluid Circulation on Nose-to-Brain Direct Delivery and Distribution of Caffeine in Rats. 2020 , 17, 4067-4076	5
60	Title: Time to wake up: Studying neurovascular coupling and brain-wide circuit function in the un-anesthetized animal.	1
59	A computationally designed fluorescent biosensor for D-serine.	3
58	Dynamic fluctuations of the locus coeruleus-norepinephrine system underlie sleep state transitions.	1
57	Astrocyte subdomains respond independently in vivo.	1
56	Transient astrocytic Gq signaling underlies remote memory enhancement.	2
55	Procedure and protocols for optical imaging of cerebral blood flow and hemodynamics in awake mice. 2020 , 11, 3288-3300	5
54	Opposite reactivity of meningeal versus cortical microvessels to the nitric oxide donor glyceryl trinitrate evaluated in vivo with two-photon imaging. 2014 , 9, e89699	5
53	Temporal Processing in the Visual Cortex of the Awake and Anesthetized Rat. 2017 , 4,	11
52	Transcranial Direct Current Stimulation (tDCS) Induces Adrenergic Receptor-Dependent Microglial Morphological Changes in Mice. 2019 , 6,	18
51	Diving into the brain: deep-brain imaging techniques in conscious animals. 2020 , 246, R33-R50	1
50	The PI3K-AKT-mTOR pathway activates recovery from general anesthesia. 2016 , 7, 40939-40952	8
49	Safety of anesthetic exposure on the developing brain - Do we have the answer yet?. 2020 , 36, 149-155	1

- 48 Entrainment of Astrocytic and Neuronal Ca Population Dynamics During Information Processing of Working Memory in Mice. **2021**, 1 1
- 47 Casting Light on the Role of Glial Cells in Brain Function. **2015**, 315-327
- 46 Alexander Disease:A Guide for Patients and Families. **2017**, 4, i-96 0
- 45 Astrocytes in the mouse visual cortex reliably respond to visual stimulation.
- 44 Astroglial dysfunctions drive aberrant synaptogenesis in developing brain with lengthy general anesthesia.
- 43 Multiphoton Ca²⁺ Imaging of Astrocytes with Genetically Encoded Indicators Delivered by a Viral Approach. **2019**, 251-277
- 42 Ca²⁺signaling in astrocytes is sleep-wake state specific and modulates sleep.
- 41 The Effects of Propofol on Neural Responses in the Mouse Primary Auditory Cortex. **2022**, 34, e63-e67 0
- 40 In situ characterization of calcium fluxes in astrocytic mitochondria from the mouse striatum and hippocampus.
- 39 Deciphering spatio-temporal fluorescence changes using multi-threshold event detection (MTED). 0
- 38 Region-specific and state-dependent astrocyte Ca²⁺ dynamics during the sleep-wake cycle in mice.
- 37 Impaired astrocytic Ca²⁺ signalling in awake Alzheimer's disease transgenic mice.
- 36 Fear learning induces α -nicotinic acetylcholine receptor-mediated astrocytic responsiveness that is required for memory persistence. **2021**, 24, 1686-1698 1
- 35 Ketamine Action on Astrocytes Provides New Insights into Rapid Antidepressant Mechanisms. **2021**, 26, 349-365 0
- 34 Rapid deep widefield neuron finder driven by virtual calcium imaging data.
- 33 Light sedation with short habituation time for large-scale fMRI studies in rats.. **2021**, e4679
- 32 High resolution ultrasonic neural modulation observed via in vivo two-photon calcium imaging.. **2021**, 15, 190-196 1
- 31 GABA Receptors in Astrocytes Are Targets for Commonly Used Intravenous and Inhalational General Anesthetic Drugs.. **2021**, 13, 802582 1

30	Astrocytic Ca ²⁺ signals partake in inhibitory neurovascular coupling in a brain state-dependent manner.		
29	The general anesthetic isoflurane inhibits calcium activity in cerebrovascular endothelial cells and disrupts vascular tone.		0
28	Astrocytes and Microglia Exhibit Cell-Specific Ca Signaling Dynamics in the Murine Spinal Cord.. <i>Frontiers in Molecular Neuroscience</i> , 2022 , 15, 840948	6.1	0
27	Ca activity maps of astrocytes tagged by axoastrocytic AAV transfer.. <i>Science Advances</i> , 2022 , 8, eabe53714.3	14.3	0
26	General Anesthetic Action Profile on the Human Prefrontal Cortex Cells Through Comprehensive Single-Cell RNA-Seq Analysis. <i>SSRN Electronic Journal</i> ,	1	
25	Constraints of vigilance-dependent noradrenergic signaling to mouse cerebellar Bergmann glia.		
24	Impaired neuromodulator crosstalk delays vigilance-dependent astroglia Ca ²⁺ activation in mouse models of Alzheimer's disease.		
23	Impaired astrocytic Ca ²⁺ signaling in awake-behaving Alzheimer's disease transgenic mice. <i>ELife</i> , 11,	8.9	1
22	Awake Mouse fMRI and Pupillary Recordings in the Ultra-High Magnetic Field. <i>Frontiers in Neuroscience</i> , 16,	5.1	0
21	Centripetal integration of past events by hippocampal astrocytes.		
20	Novel algorithms for improved detection and analysis of fluorescent signal fluctuations.		0
19	Norepinephrine enhances oligodendrocyte precursor cell calcium dynamics in the cerebral cortex during arousal.		
18	Astrocytes Learn to Detect and Signal Deviations from Critical Brain Dynamics. 1-28		
17	A visualization pipeline for <i>in vivo</i> two-photon volumetric astrocytic calcium imaging. 2022 , 36, 358		0
16	Hippocampal astrocytes encode reward location. 2022 , 609, 772-778		1
15	From nociception to pain perception, possible implications of astrocytes. 16,		0
14	Astrocytes amplify neurovascular coupling to sustained activation of neocortex in awake mice.		0
13	Astrocytes amplify neurovascular coupling to sustained activation of neocortex in awake mice. 2022 , 13,		0

- 12 The Structure and Function of Glial Networks: Beyond the Neuronal Connections. ○
- 11 Repeated sevoflurane exposures inhibit neurogenesis by inducing the upregulation of glutamate transporter 1 in astrocytes. ○
- 10 The role of calcium and CaMKII in sleep. 16, ○
- 9 General anesthetic action profile on the human prefrontal cortex cells through comprehensive single-cell RNA-seq analysis. **2023**, 26, 106534 ○
- 8 Transcranial cortex-wide Ca²⁺ imaging for the functional mapping of cortical dynamics. 17, ○
- 7 Constraints of vigilance-dependent noradrenergic signaling to mouse cerebellar Bergmann glia. **2023**, 71, 1451-1465 ○
- 6 Effects of isoflurane and urethane anesthetics on glutamate neurotransmission in rat brain using in vivo amperometry. ○
- 5 PV interneurons evoke astrocytic Ca²⁺ responses in awake mice, which contributes to neurovascular coupling. ○
- 4 Astrocytes: integrators of arousal state and sensory context. **2023**, ○
- 3 Rapid detection of neurons in widefield calcium imaging datasets after training with synthetic data. ○
- 2 Two decades of astrocytes in neurovascular coupling. 3, ○
- 1 Shining the Light on Astrocytic Ensembles. **2023**, 12, 1253 ○