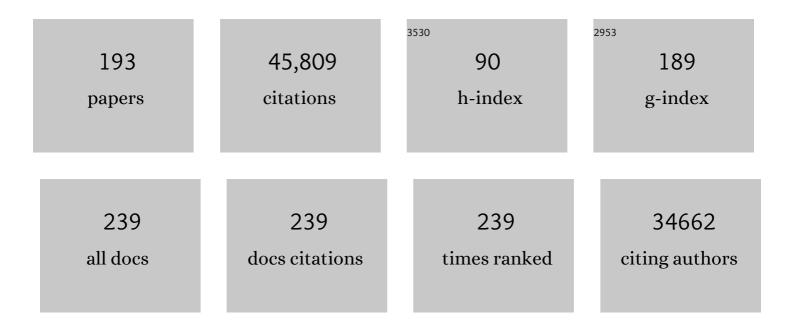
Maiken Nedergaard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Paravascular Pathway Facilitates CSF Flow Through the Brain Parenchyma and the Clearance of Interstitial Solutes, Including Amyloid β. Science Translational Medicine, 2012, 4, 147ra111.	12.4	3,514
2	Sleep Drives Metabolite Clearance from the Adult Brain. Science, 2013, 342, 373-377.	12.6	3,478
3	The blood–brain barrier: an overview. Neurobiology of Disease, 2004, 16, 1-13.	4.4	1,873
4	The Glymphatic System: A Beginner's Guide. Neurochemical Research, 2015, 40, 2583-2599.	3.3	1,266
5	New roles for astrocytes: Redefining the functional architecture of the brain. Trends in Neurosciences, 2003, 26, 523-530.	8.6	1,135
6	Uniquely Hominid Features of Adult Human Astrocytes. Journal of Neuroscience, 2009, 29, 3276-3287.	3.6	1,112
7	Physiology of Astroglia. Physiological Reviews, 2018, 98, 239-389.	28.8	1,044
8	Glial regulation of the cerebral microvasculature. Nature Neuroscience, 2007, 10, 1369-1376.	14.8	1,003
9	Astrocyte-mediated control of cerebral blood flow. Nature Neuroscience, 2006, 9, 260-267.	14.8	984
10	Impairment of paravascular clearance pathways in the aging brain. Annals of Neurology, 2014, 76, 845-861.	5.3	964
11	Glia and pain: Is chronic pain a gliopathy?. Pain, 2013, 154, S10-S28.	4.2	868
12	Cerebral Arterial Pulsation Drives Paravascular CSF–Interstitial Fluid Exchange in the Murine Brain. Journal of Neuroscience, 2013, 33, 18190-18199.	3.6	863
13	The glymphatic pathway in neurological disorders. Lancet Neurology, The, 2018, 17, 1016-1024.	10.2	831
14	Brain-wide pathway for waste clearance captured by contrast-enhanced MRI. Journal of Clinical Investigation, 2013, 123, 1299-1309.	8.2	801
15	Impairment of Glymphatic Pathway Function Promotes Tau Pathology after Traumatic Brain Injury. Journal of Neuroscience, 2014, 34, 16180-16193.	3.6	797
16	Astrocyte-mediated potentiation of inhibitory synaptic transmission. Nature Neuroscience, 1998, 1, 683-692.	14.8	773
17	Astrocytic complexity distinguishes the human brain. Trends in Neurosciences, 2006, 29, 547-553.	8.6	590
18	Flow of cerebrospinal fluid is driven by arterial pulsations and is reduced in hypertension. Nature Communications, 2018, 9, 4878.	12.8	550

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19	In vitro neurogenesis by progenitor cells isolated from the adult human hippocampus. Nature Medicine, 2000, 6, 271-277.	30.7	539
20	Signaling at the Gliovascular Interface. Journal of Neuroscience, 2003, 23, 9254-9262.	3.6	531
21	Garbage Truck of the Brain. Science, 2013, 340, 1529-1530.	12.6	526
22	The Glymphatic System in Central Nervous System Health and Disease: Past, Present, and Future. Annual Review of Pathology: Mechanisms of Disease, 2018, 13, 379-394.	22.4	519
23	Glutamate release promotes growth of malignant gliomas. Nature Medicine, 2001, 7, 1010-1015.	30.7	502
24	Vascular contributions to cognitive impairment and dementia including Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 710-717.	0.8	461
25	Vascular dysfunction—The disregarded partner of Alzheimer's disease. Alzheimer's and Dementia, 2019, 15, 158-167.	0.8	454
26	Gap-junction-mediated propagation and amplification of cell injury. Nature Neuroscience, 1998, 1, 494-500.	14.8	445
27	Glutamate-Dependent Neuroglial Calcium Signaling Differs Between Young and Adult Brain. Science, 2013, 339, 197-200.	12.6	445
28	Understanding the functions and relationships of the glymphatic system and meningeal lymphatics. Journal of Clinical Investigation, 2017, 127, 3210-3219.	8.2	436
29	Glymphatic failure as a final common pathway to dementia. Science, 2020, 370, 50-56.	12.6	435
30	The Transcriptome and Metabolic Gene Signature of Protoplasmic Astrocytes in the Adult Murine Cortex. Journal of Neuroscience, 2007, 27, 12255-12266.	3.6	420
31	Perivascular spaces in the brain: anatomy, physiology and pathology. Nature Reviews Neurology, 2020, 16, 137-153.	10.1	405
32	Biomarkers of Traumatic Injury Are Transported from Brain to Blood via the Glymphatic System. Journal of Neuroscience, 2015, 35, 518-526.	3.6	391
33	Beyond the role of glutamate as a neurotransmitter. Nature Reviews Neuroscience, 2002, 3, 748-755.	10.2	385
34	Suppression of glymphatic fluid transport in a mouse model of Alzheimer's disease. Neurobiology of Disease, 2016, 93, 215-225.	4.4	377
35	Systemic administration of an antagonist of the ATP-sensitive receptor P2X7 improves recovery after spinal cord injury. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12489-12493.	7.1	375
36	Aquaporin-4-dependent glymphatic solute transport in the rodent brain. ELife, 2018, 7, .	6.0	365

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37	α1-Adrenergic receptors mediate coordinated Ca2+ signaling of cortical astrocytes in awake, behaving mice. Cell Calcium, 2013, 54, 387-394.	2.4	340
38	Functions of Astrocytes and their Potential As Therapeutic Targets. Neurotherapeutics, 2010, 7, 338-353.	4.4	329
39	The Brain's Glymphatic System: Current Controversies. Trends in Neurosciences, 2020, 43, 458-466.	8.6	319
40	Panoptic imaging of transparent mice reveals whole-body neuronal projections and skull–meninges connections. Nature Neuroscience, 2019, 22, 317-327.	14.8	318
41	Increased glymphatic influx is correlated with high EEG delta power and low heart rate in mice under anesthesia. Science Advances, 2019, 5, eaav5447.	10.3	313
42	Purinergic receptor P2RY12-dependent microglial closure of the injured blood–brain barrier. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1074-1079.	7.1	306
43	Cerebrospinal fluid influx drives acute ischemic tissue swelling. Science, 2020, 367, .	12.6	300
44	Astrocytes in chronic pain and itch. Nature Reviews Neuroscience, 2019, 20, 667-685.	10.2	296
45	Circadian control of brain glymphatic and lymphatic fluid flow. Nature Communications, 2020, 11, 4411.	12.8	296
46	Changes in the composition of brain interstitial ions control the sleep-wake cycle. Science, 2016, 352, 550-555.	12.6	294
47	The Effect of Body Posture on Brain Glymphatic Transport. Journal of Neuroscience, 2015, 35, 11034-11044.	3.6	283
48	Ultra-fast magnetic resonance encephalography of physiological brain activity – Glymphatic pulsation mechanisms?. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1033-1045.	4.3	283
49	Direct neuronal glucose uptake heralds activity-dependent increases in cerebral metabolism. Nature Communications, 2015, 6, 6807.	12.8	279
50	Artifact versus reality—How astrocytes contribute to synaptic events. Glia, 2012, 60, 1013-1023.	4.9	274
51	Loss of Astrocytic Domain Organization in the Epileptic Brain. Journal of Neuroscience, 2008, 28, 3264-3276.	3.6	269
52	SOX9 Is an Astrocyte-Specific Nuclear Marker in the Adult Brain Outside the Neurogenic Regions. Journal of Neuroscience, 2017, 37, 4493-4507.	3.6	263
53	Evaluating glymphatic pathway function utilizing clinically relevant intrathecal infusion of CSF tracer. Journal of Translational Medicine, 2013, 11, 107.	4.4	262
54	Fibroblast growth factorâ€2/brainâ€derived neurotrophic factor—associated maturation of new neurons generated from adult human subependymal cells. Annals of Neurology, 1998, 43, 576-585.	5.3	259

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55	Role of glial cells in cerebral ischemia. Clia, 2005, 50, 281-286.	4.9	259
56	Critical role of aquaporin-4 (AQP4) in astrocytic Ca ²⁺ signaling events elicited by cerebral edema. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 846-851.	7.1	243
57	â€~Hit & Run' Model of Closed-Skull Traumatic Brain Injury (TBI) Reveals Complex Patterns of Post-Traumatic AQP4 Dysregulation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 834-845.	4.3	240
58	Connexin-43 induces chemokine release from spinal cord astrocytes to maintain late-phase neuropathic pain in mice. Brain, 2014, 137, 2193-2209.	7.6	236
59	Perivascular spaces, glymphatic dysfunction, and small vessel disease. Clinical Science, 2017, 131, 2257-2274.	4.3	226
60	Astroglial cradle in the life of the synapse. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130595.	4.0	214
61	Understanding the role of the perivascular space in cerebral small vessel disease. Cardiovascular Research, 2018, 114, 1462-1473.	3.8	211
62	Glymphatic clearance controls state-dependent changes in brain lactate concentration. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2112-2124.	4.3	208
63	Glymphatic System Impairment in Alzheimer's Disease and Idiopathic Normal Pressure Hydrocephalus. Trends in Molecular Medicine, 2020, 26, 285-295.	6.7	206
64	Human iPSC Glial Mouse Chimeras Reveal Glial Contributions to Schizophrenia. Cell Stem Cell, 2017, 21, 195-208.e6.	11.1	204
65	Impairment of the glymphatic system after diabetes. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1326-1337.	4.3	194
66	Fluid transport in the brain. Physiological Reviews, 2022, 102, 1025-1151.	28.8	192
67	Receptor-mediated glutamate release from volume sensitive channels in astrocytes. Proceedings of the United States of America, 2005, 102, 16466-16471.	7.1	186
68	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	14.8	183
69	A Distinct Population of Microglia Supports Adult Neurogenesis in the Subventricular Zone. Journal of Neuroscience, 2015, 35, 11848-11861.	3.6	179
70	Drowning stars: reassessing the role of astrocytes in brain edema. Trends in Neurosciences, 2014, 37, 620-628.	8.6	177
71	Gap junctions are required for the propagation of spreading depression. Journal of Neurobiology, 1995, 28, 433-444.	3.6	174
72	Promoter-targeted selection and isolation of neural progenitor cells from the adult human ventricular zone. , 2000, 59, 321-331.		168

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73	Glymphatic distribution of CSF-derived apoE into brain is isoform specific and suppressed during sleep deprivation. Molecular Neurodegeneration, 2016, 11, 74.	10.8	168
74	Astrocyte-mediated control of cerebral microcirculation. Trends in Neurosciences, 2003, 26, 340-344.	8.6	163
75	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. Journal of Nuclear Medicine, 2017, 58, 1471-1476.	5.0	161
76	Mechanisms of cognitive dysfunction in CKD. Nature Reviews Nephrology, 2020, 16, 452-469.	9.6	159
77	Purinergic signaling regulates neural progenitor cell expansion and neurogenesis. Developmental Biology, 2007, 302, 356-366.	2.0	158
78	Paravascular microcirculation facilitates rapid lipid transport and astrocyte signaling in the brain. Scientific Reports, 2013, 3, 2582.	3.3	152
79	Glial calcium and diseases of the nervous system. Cell Calcium, 2010, 47, 140-149.	2.4	151
80	Implications of the discovery of brain lymphatic pathways. Lancet Neurology, The, 2015, 14, 977-979.	10.2	149
81	Human glia can both induce and rescue aspects of disease phenotype in Huntington disease. Nature Communications, 2016, 7, 11758.	12.8	148
82	Glial cells in schizophrenia: a unified hypothesis. Lancet Psychiatry,the, 2020, 7, 272-281.	7.4	145
83	Anesthesia with Dexmedetomidine and Low-dose Isoflurane Increases Solute Transport <i>via</i> the Glymphatic Pathway in Rat Brain When Compared with High-dose Isoflurane. Anesthesiology, 2017, 127, 976-988.	2.5	144
84	Cognitive Deficits and Delayed Neuronal Loss in a Mouse Model of Multiple Microinfarcts. Journal of Neuroscience, 2012, 32, 17948-17960.	3.6	134
85	Focal Solute Trapping and Global Glymphatic Pathway Impairment in a Murine Model of Multiple Microinfarcts. Journal of Neuroscience, 2017, 37, 2870-2877.	3.6	134
86	Impaired Glymphatic Transport in Spontaneously Hypertensive Rats. Journal of Neuroscience, 2019, 39, 6365-6377.	3.6	131
87	Neuronal Transgene Expression in Dominant-Negative SNARE Mice. Journal of Neuroscience, 2014, 34, 16594-16604.	3.6	129
88	Erythrocytes Are Oxygen-Sensing Regulators of the Cerebral Microcirculation. Neuron, 2016, 91, 851-862.	8.1	129
89	The pathophysiology underlying repetitive mild traumatic brain injury in a novel mouse model of chronic traumatic encephalopathy. , 2014, 5, 184.		124
90	Imaging Activity in Neurons and Glia with a Polr2a-Based and Cre-Dependent GCaMP5G-IRES-tdTomato Reporter Mouse. Neuron, 2014, 83, 1058-1072.	8.1	120

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91	An ocular glymphatic clearance system removes β-amyloid from the rodent eye. Science Translational Medicine, 2020, 12, .	12.4	116
92	How Do Astrocytes Participate in Neural Plasticity?. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020438.	5.5	113
93	Inflammation in acquired hydrocephalus: pathogenic mechanisms and therapeutic targets. Nature Reviews Neurology, 2020, 16, 285-296.	10.1	107
94	The Glymphatic System: A Novel Component of Fundamental Neurobiology. Journal of Neuroscience, 2021, 41, 7698-7711.	3.6	105
95	The homeostatic astroglia emerges from evolutionary specialization of neural cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150428.	4.0	89
96	PDGF-B Is Required for Development of the Glymphatic System. Cell Reports, 2019, 26, 2955-2969.e3.	6.4	89
97	Memory-enhancing properties of sleep depend on the oscillatory amplitude of norepinephrine. Nature Neuroscience, 2022, 25, 1059-1070.	14.8	87
98	Quantitative Gdâ€DOTA uptake from cerebrospinal fluid into rat brain using 3D VFA‧PGR at 9.4T. Magnetic Resonance in Medicine, 2018, 79, 1568-1578.	3.0	83
99	Brain energetics during the sleep–wake cycle. Current Opinion in Neurobiology, 2017, 47, 65-72.	4.2	81
100	Fluorescent Ca ²⁺ indicators directly inhibit the Na,K-ATPase and disrupt cellular functions. Science Signaling, 2018, 11, .	3.6	81
101	Voluntary running enhances glymphatic influx in awake behaving, young mice. Neuroscience Letters, 2018, 662, 253-258.	2.1	80
102	Optimal Mass Transport with Lagrangian Workflow Reveals Advective and Diffusion Driven Solute Transport in the Glymphatic System. Scientific Reports, 2020, 10, 1990.	3.3	75
103	Dexmedetomidine enhances glymphatic brain delivery of intrathecally administered drugs. Journal of Controlled Release, 2019, 304, 29-38.	9.9	73
104	Beneficial effects of low alcohol exposure, but adverse effects of high alcohol intake on glymphatic function. Scientific Reports, 2018, 8, 2246.	3.3	72
105	The Glymphatic System (En)during Inflammation. International Journal of Molecular Sciences, 2021, 22, 7491.	4.1	70
106	Cerebral Metabolic Changes During Sleep. Current Neurology and Neuroscience Reports, 2018, 18, 57.	4.2	68
107	Hydraulic resistance of periarterial spaces in the brain. Fluids and Barriers of the CNS, 2019, 16, 19.	5.0	68
108	Loss of CLOCK Results in Dysfunction of Brain Circuits Underlying Focal Epilepsy. Neuron, 2017, 96, 387-401.e6.	8.1	66

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109	Direct Measurement of Cerebrospinal Fluid Production in Mice. Cell Reports, 2020, 33, 108524.	6.4	66
110	Cannula Implantation into the Cisterna Magna of Rodents. Journal of Visualized Experiments, 2018, , .	0.3	65
111	Cleaning the sleeping brain – the potential restorative function of the glymphatic system. Current Opinion in Physiology, 2020, 15, 1-6.	1.8	64
112	Transcranial optical imaging reveals a pathway for optimizing the delivery of immunotherapeutics to the brain. JCI Insight, 2018, 3, .	5.0	64
113	Interstitial ions: A key regulator of state-dependent neural activity?. Progress in Neurobiology, 2020, 193, 101802.	5.7	60
114	Pairedâ€pulse modulation at individual GABAergic synapses in rat hippocampus. Journal of Physiology, 2000, 523, 425-439.	2.9	58
115	Cerebrospinal and interstitial fluid transport via the glymphatic pathway modeled by optimal mass transport. Neurolmage, 2017, 152, 530-537.	4.2	57
116	Sustained Mobilization of Endogenous Neural Progenitors Delays Disease Progression in a Transgenic Model of Huntington's Disease. Cell Stem Cell, 2013, 12, 787-799.	11.1	56
117	Fine-tuning the central nervous system: microglial modelling of cells and synapses. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130593.	4.0	56
118	Distinct Functional States of Astrocytes During Sleep and Wakefulness: Is Norepinephrine the Master Regulator?. Current Sleep Medicine Reports, 2015, 1, 1-8.	1.4	56
119	Cortex-wide Changes in Extracellular Potassium Ions Parallel Brain State Transitions in Awake Behaving Mice. Cell Reports, 2019, 28, 1182-1194.e4.	6.4	53
120	Glucocorticoids?potent modulators of astrocytic calcium signaling. , 1999, 28, 1-12.		50
121	Cellular Control of Brain Capillary Blood Flow: In Vivo Imaging Veritas. Trends in Neurosciences, 2019, 42, 528-536.	8.6	48
122	Mapping of CSF transport using high spatiotemporal resolution dynamic contrastâ€enhanced MRI in mice: Effect of anesthesia. Magnetic Resonance in Medicine, 2021, 85, 3326-3342.	3.0	47
123	Direct comparison of microglial dynamics and inflammatory profile in photothrombotic and arterial occlusion evoked stroke. Neuroscience, 2017, 343, 483-494.	2.3	46
124	Bulk flow of cerebrospinal fluid observed in periarterial spaces is not an artifact of injection. ELife, 2021, 10, .	6.0	46
125	Meningeal cells can communicate with astrocytes by calcium signaling. Annals of Neurology, 2000, 47, 18-25.	5.3	44
126	Modeling cognition and disease using human glial chimeric mice. Glia, 2015, 63, 1483-1493.	4.9	42

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127	Cerebral small vessel disease: A glymphopathy?. Current Opinion in Neurobiology, 2022, 72, 15-21.	4.2	41
128	Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep. PLoS Biology, 2020, 18, e3000623.	5.6	39
129	Cardiovascular brain impulses in Alzheimer's disease. Brain, 2021, 144, 2214-2226.	7.6	38
130	Sulforhodamine 101, a widely used astrocyte marker, can induce cortical seizure-like activity at concentrations commonly used. Scientific Reports, 2016, 6, 30433.	3.3	37
131	Molecular scaffolds underpinning macroglial polarization: An analysis of retinal Müller cells and brain astrocytes in mouse. Glia, 2012, 60, 2018-2026.	4.9	36
132	Adrenergic receptor antagonism induces neuroprotection and facilitates recovery from acute ischemic stroke. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11010-11019.	7.1	35
133	When the air hits your brain: decreased arterial pulsatility after craniectomy leading to impaired glymphatic flow. Journal of Neurosurgery, 2020, 133, 210-223.	1.6	35
134	The glymphatic system. Current Biology, 2021, 31, R1371-R1375.	3.9	34
135	Dysregulated Clial Differentiation in Schizophrenia May Be Relieved by Suppression of SMAD4- and REST-Dependent Signaling. Cell Reports, 2019, 27, 3832-3843.e6.	6.4	32
136	Surface periarterial spaces of the mouse brain are open, not porous. Journal of the Royal Society Interface, 2020, 17, 20200593.	3.4	30
137	Blood–brain barrier permeable β-blockers linked to lower risk of Alzheimer's disease in hypertension. Brain, 2023, 146, 1141-1151.	7.6	30
138	Does Global Astrocytic Calcium Signaling Participate in Awake Brain State Transitions and Neuronal Circuit Function?. Neurochemical Research, 2017, 42, 1810-1822.	3.3	29
139	Oxygen tension–mediated erythrocyte membrane interactions regulate cerebral capillary hyperemia. Science Advances, 2019, 5, eaaw4466.	10.3	29
140	Meningeal Lymphangiogenesis and Enhanced Glymphatic Activity in Mice with Chronically Implanted EEG Electrodes. Journal of Neuroscience, 2020, 40, 2371-2380.	3.6	29
141	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. Scientific Reports, 2020, 10, 21559.	3.3	28
142	Human Glial Progenitor Cells Effectively Remyelinate the Demyelinated Adult Brain. Cell Reports, 2020, 31, 107658.	6.4	27
143	Cerebral microcirculatory failure after subarachnoid hemorrhage is reversed by hyaluronidase. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1537-1552.	4.3	26
144	Ontogeny of CX3CR1-EGFP expressing cells unveil microglia as an integral component of the postnatal subventricular zone. Frontiers in Cellular Neuroscience, 2015, 9, 37.	3.7	25

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145	Biological sex does not predict glymphatic influx in healthy young, middle aged or old mice. Scientific Reports, 2020, 10, 16073.	3.3	25
146	Locus coeruleus in memory formation and Alzheimer's disease. European Journal of Neuroscience, 2021, 54, 6948-6959.	2.6	24
147	A network model of glymphatic flow under different experimentally-motivated parametric scenarios. IScience, 2022, 25, 104258.	4.1	24
148	Brain Morphometry and Longitudinal Relaxation Time of Spontaneously Hypertensive Rats (SHRs) in Early and Intermediate Stages of Hypertension Investigated by 3D VFA-SPGR MRI. Neuroscience, 2019, 404, 14-26.	2.3	23
149	Cerebrospinal fluid is a significant fluid source for anoxic cerebral oedema. Brain, 2022, 145, 787-797.	7.6	23
150	P2X receptors in neuroglia. Environmental Sciences Europe, 2012, 1, 151-161.	5.5	22
151	Astrocytic connexin 43 potentiates myelin injury in ischemic white matter disease. Theranostics, 2019, 9, 4474-4493.	10.0	21
152	Filtering the muddied waters of brain edema. Trends in Neurosciences, 2015, 38, 333-335.	8.6	20
153	Why have we not yet developed a simple blood test for TBI?. Expert Review of Neurotherapeutics, 2015, 15, 465-468.	2.8	20
154	Cisterna Magna Injection in Rats to Study Glymphatic Function. Methods in Molecular Biology, 2019, 1938, 97-104.	0.9	19
155	Defining novel functions for cerebrospinal fluid in ALS pathophysiology. Acta Neuropathologica Communications, 2020, 8, 140.	5.2	19
156	A novel technique for morphometric quantification of subarachnoid hemorrhage-induced microglia activation. Journal of Neuroscience Methods, 2014, 229, 44-52.	2.5	18
157	Do Evolutionary Changes in Astrocytes Contribute to the Computational Power of the Hominid Brain?. Neurochemical Research, 2017, 42, 2577-2587.	3.3	18
158	Astrocytic Endocannabinoids Mediate Hippocampal Transient Heterosynaptic Depression. Neurochemical Research, 2020, 45, 100-108.	3.3	18
159	Optimal-mass-transfer-based estimation of glymphatic transport in living brain. , 2015, 9413, .		17
160	Respiratory-related brain pulsations are increased in epilepsy—a two-centre functional MRI study. Brain Communications, 2020, 2, fcaa076.	3.3	15
161	Effects of traumatic brain injury on reactive astrogliosis and seizures in mouse models of Alexander disease. Brain Research, 2014, 1582, 211-219.	2.2	14
162	In Vivo Imaging of Cerebrospinal Fluid Transport through the Intact Mouse Skull using Fluorescence Macroscopy. Journal of Visualized Experiments, 2019, , .	0.3	14

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163	Modern cerebrospinal fluid flow research and Heinrich Quincke's seminal 1872 article on the distribution of cinnabar in freely moving animals. Journal of Comparative Neurology, 2015, 523, 1748-1755.	1.6	13
164	TR(I)Pping towards treatment for ischemia. Nature Neuroscience, 2009, 12, 1215-1216.	14.8	12
165	Twists and turns of ocular glymphatic clearance – new study reveals surprising findings in glaucoma. Acta Ophthalmologica, 2021, 99, e283-e284.	1.1	12
166	The Glymphatic System and Pain. Medical Acupuncture, 2020, 32, 373-376.	0.6	11
167	<scp>DNase</scp> Treatment Prevents <scp>Cerebrospinal Fluid</scp> Block in Early Experimental Pneumococcal Meningitis. Annals of Neurology, 2021, 90, 653-669.	5.3	11
168	Not All Lectins Are Equally Suitable for Labeling Rodent Vasculature. International Journal of Molecular Sciences, 2021, 22, 11554.	4.1	11
169	Oxidative Stress-Induced Damage to the Developing Hippocampus Is Mediated by GSK3β. Journal of Neuroscience, 2022, 42, 4812-4827.	3.6	11
170	Adrenergic inhibition facilitates normalization of extracellular potassium after cortical spreading depolarization. Scientific Reports, 2021, 11, 8150.	3.3	10
171	Does Long-Duration Exposure to Microgravity Lead to Dysregulation of the Brain and Ocular Glymphatic Systems?. Eye and Brain, 2022, Volume 14, 49-58.	2.5	8
172	Perivascular pumping in the mouse brain: Improved boundary conditions reconcile theory, simulation, and experiment. Journal of Theoretical Biology, 2022, 542, 111103.	1.7	7
173	Inverse correlation of fluctuations of cerebral blood and water concentrations in humans. European Physical Journal Plus, 2021, 136, 1.	2.6	6
174	Sex-Specific Social Behavior and Amygdala Proteomic Deficits in Foxp2+/â^' Mutant Mice. Frontiers in Behavioral Neuroscience, 2021, 15, 706079.	2.0	6
175	State-Dependent Changes in Brain Glycogen Metabolism. Advances in Neurobiology, 2019, 23, 269-309.	1.8	6
176	Physiological Mechanisms and Significance of Intracranial B Waves. Frontiers in Neurology, 2022, 13, .	2.4	6
177	The effect of long-duration spaceflight on perivascular spaces within the brain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	6
178	A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices. Scientific Data, 2020, 7, 235.	5.3	5
179	Gabor domain optical coherence microscopy combined with laser scanning confocal fluorescence microscopy. Biomedical Optics Express, 2019, 10, 6242.	2.9	5
180	Increased interictal synchronicity of respiratory related brain pulsations in epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1840-1853.	4.3	5

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181	Editorial: Sleep and Mood Disorders. Frontiers in Psychiatry, 2019, 10, 981.	2.6	4
182	Remembering Ben Barres. Neuroglia (Basel, Switzerland), 2018, 1, 4-6.	0.9	3
183	The elusive varicose astrocytes. Trends in Neurosciences, 2022, 45, 94-95.	8.6	3
184	Astrocytes in ischemic stroke. , 2002, , 113-124.		2
185	Glymphatic System. , 2015, , 1-18.		2
186	NMDA Receptor Expression by Retinal Ganglion Cells Is Not Required for Retinofugal Map Formation nor Eye-Specific Segregation in the Mouse. ENeuro, 2021, 8, ENEURO.0115-20.2021.	1.9	1
187	Reply to: Rethink the classical view of cerebrospinal fluid production. Nature Reviews Neurology, 2021, 17, 590-591.	10.1	1
188	A Novel Model of Transient Occlusion of the Middle Cerebral Artery in Awake Mice. Journal of Nature and Science, 2016, 2, .	1.1	1
189	TUBE Project: Transport-Derived Ultrafines and the Brain Effects. International Journal of Environmental Research and Public Health, 2022, 19, 311.	2.6	1
190	Random access multiphoton (RAMP) microscopy for investigation of cerebral blood flow regulation mechanisms. Proceedings of SPIE, 2012, 8226, .	0.8	0
191	The birth of the journal: the first anniversary of WIREs MTS. Environmental Sciences Europe, 2013, 2, 105-105.	5.5	0
192	Glymphatic System. , 2016, , 1945-1962.		0
193	"Diversity matters seriesâ€â€"The Black In Neuro movement. European Journal of Neuroscience, 2022, 55, 343-349.	2.6	0