

Maiken Nedergaard

List of Publications by Year in descending order

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193
papers

45,809
citations

3531

90
h-index

2953

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239
all docs

239
docs citations

239
times ranked

34662
citing authors

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

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

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37	Î±1-Adrenergic receptors mediate coordinated Ca ²⁺ signaling of cortical astrocytes in awake, behaving mice. <i>Cell Calcium</i> , 2013, 54, 387-394.	2.4	340
38	Functions of Astrocytes and their Potential As Therapeutic Targets. <i>Neurotherapeutics</i> , 2010, 7, 338-353.	4.4	329
39	The Brain's Glymphatic System: Current Controversies. <i>Trends in Neurosciences</i> , 2020, 43, 458-466.	8.6	319
40	Panoptic imaging of transparent mice reveals whole-body neuronal projections and skull meninges connections. <i>Nature Neuroscience</i> , 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. <i>Science Advances</i> , 2019, 5, eaav5447.	10.3	313
42	Purinergic receptor P2RY12-dependent microglial closure of the injured blood-brain barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1074-1079.	7.1	306
43	Cerebrospinal fluid influx drives acute ischemic tissue swelling. <i>Science</i> , 2020, 367, .	12.6	300
44	Astrocytes in chronic pain and itch. <i>Nature Reviews Neuroscience</i> , 2019, 20, 667-685.	10.2	296
45	Circadian control of brain glymphatic and lymphatic fluid flow. <i>Nature Communications</i> , 2020, 11, 4411.	12.8	296
46	Changes in the composition of brain interstitial ions control the sleep-wake cycle. <i>Science</i> , 2016, 352, 550-555.	12.6	294
47	The Effect of Body Posture on Brain Glymphatic Transport. <i>Journal of Neuroscience</i> , 2015, 35, 11034-11044.	3.6	283
48	Ultra-fast magnetic resonance encephalography of physiological brain activity - Glymphatic pulsation mechanisms?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1033-1045.	4.3	283
49	Direct neuronal glucose uptake heralds activity-dependent increases in cerebral metabolism. <i>Nature Communications</i> , 2015, 6, 6807.	12.8	279
50	Artifact versus reality - How astrocytes contribute to synaptic events. <i>Glia</i> , 2012, 60, 1013-1023.	4.9	274
51	Loss of Astrocytic Domain Organization in the Epileptic Brain. <i>Journal of Neuroscience</i> , 2008, 28, 3264-3276.	3.6	269
52	SOX9 Is an Astrocyte-Specific Nuclear Marker in the Adult Brain Outside the Neurogenic Regions. <i>Journal of Neuroscience</i> , 2017, 37, 4493-4507.	3.6	263
53	Evaluating glymphatic pathway function utilizing clinically relevant intrathecal infusion of CSF tracer. <i>Journal of Translational Medicine</i> , 2013, 11, 107.	4.4	262
54	Fibroblast growth factor-2/brain-derived neurotrophic factor-associated maturation of new neurons generated from adult human subependymal cells. <i>Annals of Neurology</i> , 1998, 43, 576-585.	5.3	259

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55	Role of glial cells in cerebral ischemia. <i>Glia</i> , 2005, 50, 281-286.	4.9	259
56	Critical role of aquaporin-4 (AQP4) in astrocytic Ca ²⁺ signaling events elicited by cerebral edema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 846-851.	7.1	243
57	Hit & Run™ Model of Closed-Skull Traumatic Brain Injury (TBI) Reveals Complex Patterns of Post-Traumatic AQP4 Dysregulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 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. <i>Brain</i> , 2014, 137, 2193-2209.	7.6	236
59	Perivascular spaces, glymphatic dysfunction, and small vessel disease. <i>Clinical Science</i> , 2017, 131, 2257-2274.	4.3	226
60	Astroglial cradle in the life of the synapse. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130595.	4.0	214
61	Understanding the role of the perivascular space in cerebral small vessel disease. <i>Cardiovascular Research</i> , 2018, 114, 1462-1473.	3.8	211
62	Glymphatic clearance controls state-dependent changes in brain lactate concentration. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2112-2124.	4.3	208
63	Glymphatic System Impairment in Alzheimer's Disease and Idiopathic Normal Pressure Hydrocephalus. <i>Trends in Molecular Medicine</i> , 2020, 26, 285-295.	6.7	206
64	Human iPSC Glial Mouse Chimeras Reveal Glial Contributions to Schizophrenia. <i>Cell Stem Cell</i> , 2017, 21, 195-208.e6.	11.1	204
65	Impairment of the glymphatic system after diabetes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1326-1337.	4.3	194
66	Fluid transport in the brain. <i>Physiological Reviews</i> , 2022, 102, 1025-1151.	28.8	192
67	Receptor-mediated glutamate release from volume sensitive channels in astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16466-16471.	7.1	186
68	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	14.8	183
69	A Distinct Population of Microglia Supports Adult Neurogenesis in the Subventricular Zone. <i>Journal of Neuroscience</i> , 2015, 35, 11848-11861.	3.6	179
70	Drowning stars: reassessing the role of astrocytes in brain edema. <i>Trends in Neurosciences</i> , 2014, 37, 620-628.	8.6	177
71	Gap junctions are required for the propagation of spreading depression. <i>Journal of Neurobiology</i> , 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. <i>Molecular Neurodegeneration</i> , 2016, 11, 74.	10.8	168
74	Astrocyte-mediated control of cerebral microcirculation. <i>Trends in Neurosciences</i> , 2003, 26, 340-344.	8.6	163
75	Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1471-1476.	5.0	161
76	Mechanisms of cognitive dysfunction in CKD. <i>Nature Reviews Nephrology</i> , 2020, 16, 452-469.	9.6	159
77	Purinergic signaling regulates neural progenitor cell expansion and neurogenesis. <i>Developmental Biology</i> , 2007, 302, 356-366.	2.0	158
78	Paravascular microcirculation facilitates rapid lipid transport and astrocyte signaling in the brain. <i>Scientific Reports</i> , 2013, 3, 2582.	3.3	152
79	Glial calcium and diseases of the nervous system. <i>Cell Calcium</i> , 2010, 47, 140-149.	2.4	151
80	Implications of the discovery of brain lymphatic pathways. <i>Lancet Neurology</i> , The, 2015, 14, 977-979.	10.2	149
81	Human glia can both induce and rescue aspects of disease phenotype in Huntington disease. <i>Nature Communications</i> , 2016, 7, 11758.	12.8	148
82	Glial cells in schizophrenia: a unified hypothesis. <i>Lancet Psychiatry</i> , 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. <i>Anesthesiology</i> , 2017, 127, 976-988.	2.5	144
84	Cognitive Deficits and Delayed Neuronal Loss in a Mouse Model of Multiple Microinfarcts. <i>Journal of Neuroscience</i> , 2012, 32, 17948-17960.	3.6	134
85	Focal Solute Trapping and Global Glymphatic Pathway Impairment in a Murine Model of Multiple Microinfarcts. <i>Journal of Neuroscience</i> , 2017, 37, 2870-2877.	3.6	134
86	Impaired Glymphatic Transport in Spontaneously Hypertensive Rats. <i>Journal of Neuroscience</i> , 2019, 39, 6365-6377.	3.6	131
87	Neuronal Transgene Expression in Dominant-Negative SNARE Mice. <i>Journal of Neuroscience</i> , 2014, 34, 16594-16604.	3.6	129
88	Erythrocytes Are Oxygen-Sensing Regulators of the Cerebral Microcirculation. <i>Neuron</i> , 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. <i>Neuron</i> , 2014, 83, 1058-1072.	8.1	120

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

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

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127	Cerebral small vessel disease: A glymphopathy?. <i>Current Opinion in Neurobiology</i> , 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. <i>PLoS Biology</i> , 2020, 18, e3000623.	5.6	39
129	Cardiovascular brain impulses in Alzheimer's disease. <i>Brain</i> , 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. <i>Scientific Reports</i> , 2016, 6, 30433.	3.3	37
131	Molecular scaffolds underpinning macroglial polarization: An analysis of retinal Müller cells and brain astrocytes in mouse. <i>Glia</i> , 2012, 60, 2018-2026.	4.9	36
132	Adrenergic receptor antagonism induces neuroprotection and facilitates recovery from acute ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11010-11019.	7.1	35
133	When the air hits your brain: decreased arterial pulsatility after craniectomy leading to impaired lymphatic flow. <i>Journal of Neurosurgery</i> , 2020, 133, 210-223.	1.6	35
134	The glymphatic system. <i>Current Biology</i> , 2021, 31, R1371-R1375.	3.9	34
135	Dysregulated Glial Differentiation in Schizophrenia May Be Relieved by Suppression of SMAD4- and REST-Dependent Signaling. <i>Cell Reports</i> , 2019, 27, 3832-3843.e6.	6.4	32
136	Surface periarterial spaces of the mouse brain are open, not porous. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200593.	3.4	30
137	Blood-brain barrier permeable β -blockers linked to lower risk of Alzheimer's disease in hypertension. <i>Brain</i> , 2023, 146, 1141-1151.	7.6	30
138	Does Global Astrocytic Calcium Signaling Participate in Awake Brain State Transitions and Neuronal Circuit Function?. <i>Neurochemical Research</i> , 2017, 42, 1810-1822.	3.3	29
139	Oxygen tension-mediated erythrocyte membrane interactions regulate cerebral capillary hyperemia. <i>Science Advances</i> , 2019, 5, eaaw4466.	10.3	29
140	Meningeal Lymphangiogenesis and Enhanced Glymphatic Activity in Mice with Chronically Implanted EEG Electrodes. <i>Journal of Neuroscience</i> , 2020, 40, 2371-2380.	3.6	29
141	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. <i>Scientific Reports</i> , 2020, 10, 21559.	3.3	28
142	Human Glial Progenitor Cells Effectively Remyelinate the Demyelinated Adult Brain. <i>Cell Reports</i> , 2020, 31, 107658.	6.4	27
143	Cerebral microcirculatory failure after subarachnoid hemorrhage is reversed by hyaluronidase. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 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. <i>Frontiers in Cellular Neuroscience</i> , 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. <i>Scientific Reports</i> , 2020, 10, 16073.	3.3	25
146	Locus coeruleus in memory formation and Alzheimer's disease. <i>European Journal of Neuroscience</i> , 2021, 54, 6948-6959.	2.6	24
147	A network model of glymphatic flow under different experimentally-motivated parametric scenarios. <i>IScience</i> , 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. <i>Neuroscience</i> , 2019, 404, 14-26.	2.3	23
149	Cerebrospinal fluid is a significant fluid source for anoxic cerebral oedema. <i>Brain</i> , 2022, 145, 787-797.	7.6	23
150	P2X receptors in neuroglia. <i>Environmental Sciences Europe</i> , 2012, 1, 151-161.	5.5	22
151	Astrocytic connexin 43 potentiates myelin injury in ischemic white matter disease. <i>Theranostics</i> , 2019, 9, 4474-4493.	10.0	21
152	Filtering the muddied waters of brain edema. <i>Trends in Neurosciences</i> , 2015, 38, 333-335.	8.6	20
153	Why have we not yet developed a simple blood test for TBI?. <i>Expert Review of Neurotherapeutics</i> , 2015, 15, 465-468.	2.8	20
154	Cisterna Magna Injection in Rats to Study Glymphatic Function. <i>Methods in Molecular Biology</i> , 2019, 1938, 97-104.	0.9	19
155	Defining novel functions for cerebrospinal fluid in ALS pathophysiology. <i>Acta Neuropathologica Communications</i> , 2020, 8, 140.	5.2	19
156	A novel technique for morphometric quantification of subarachnoid hemorrhage-induced microglia activation. <i>Journal of Neuroscience Methods</i> , 2014, 229, 44-52.	2.5	18
157	Do Evolutionary Changes in Astrocytes Contribute to the Computational Power of the Hominid Brain?. <i>Neurochemical Research</i> , 2017, 42, 2577-2587.	3.3	18
158	Astrocytic Endocannabinoids Mediate Hippocampal Transient Heterosynaptic Depression. <i>Neurochemical Research</i> , 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. <i>Brain Communications</i> , 2020, 2, fcaa076.	3.3	15
161	Effects of traumatic brain injury on reactive astrogliosis and seizures in mouse models of Alexander disease. <i>Brain Research</i> , 2014, 1582, 211-219.	2.2	14
162	In Vivo Imaging of Cerebrospinal Fluid Transport through the Intact Mouse Skull using Fluorescence Macroscopy. <i>Journal of Visualized Experiments</i> , 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. <i>Journal of Comparative Neurology</i> , 2015, 523, 1748-1755.	1.6	13
164	TR(I)Pping towards treatment for ischemia. <i>Nature Neuroscience</i> , 2009, 12, 1215-1216.	14.8	12
165	Twists and turns of ocular glymphatic clearance – new study reveals surprising findings in glaucoma. <i>Acta Ophthalmologica</i> , 2021, 99, e283-e284.	1.1	12
166	The Glymphatic System and Pain. <i>Medical Acupuncture</i> , 2020, 32, 373-376.	0.6	11
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