Shane A Liddelow

List of Publications by Year in Descending Order

72 papers	11,984 citations	35 h-index	81 g-index
81 ext. papers	16,970 ext. citations	17.2 avg, IF	6.72 L-index

#	Paper	IF	Citations
72	Solving neurodegeneration: common mechanisms and strategies for new treatments.. *Molecular Neurodegeneration*, **2022**, 17, 23	19	5
71	Astrocytes and oligodendrocytes undergo subtype-specific transcriptional changes in Alzheimer's disease.. *Neuron*, **2022**,	13.9	7
70	Melanoma-secreted Amyloid Beta Suppresses Neuroinflammation and Promotes Brain Metastasis.. *Cancer Discovery*, **2022**,	24.4	2
69	Proteomic Alterations and Novel Markers of Neurotoxic Reactive Astrocytes in Human Induced Pluripotent Stem Cell Models.. *Frontiers in Molecular Neuroscience*, **2022**, 15, 870085	6.1	3
68	Neurotoxic reactive astrocytes induce cell death via saturated lipids. *Nature*, **2021**, 599, 102-107	50.4	45
67	Isoform-dependent APOE secretion modulates neuroinflammation. *Nature Reviews Neurology*, **2021**, 17, 265-266	15	5
66	Astrocytes. *Current Biology*, **2021**, 31, R326-R327	6.3	3
65	Astrocytes have a license to kill inflammatory T cells. *Immunity*, **2021**, 54, 614-616	32.3	0
64	Reactive astrocyte nomenclature, definitions, and future directions. *Nature Neuroscience*, **2021**, 24, 312-325	25.5	298
63	Activated microglia drive demyelination via CSF1R signaling. *Glia*, **2021**, 69, 1583-1604	9	18
62	Astrocyte-immune cell interactions in physiology and pathology. *Immunity*, **2021**, 54, 211-224	32.3	23
61	Neuroinflammatory astrocyte subtypes in the mouse brain. *Nature Neuroscience*, **2021**, 24, 1475-1487	25.5	46
60	Monitoring phagocytic uptake of amyloid into glial cell lysosomes in real time. *Chemical Science*, **2021**, 12, 10901-10918	9.4	3
59	Single-cell delineation of lineage and genetic identity in the mouse brain.. *Nature*, **2021**,	50.4	5
58	An Overview of Astrocyte Responses in Genetically Induced Alzheimer's Disease Mouse Models. *Cells*, **2020**, 9,	7.9	8
57	CD49f Is a Novel Marker of Functional and Reactive Human iPSC-Derived Astrocytes. *Neuron*, **2020**, 107, 436-453.e12	13.9	40
56	Neurotoxic Reactive Astrocytes Drive Neuronal Death after Retinal Injury. *Cell Reports*, **2020**, 31, 107776	10.6	56

55	How Support of Early Career Researchers Can Reset Science in the Post-COVID19 World. *Cell*, **2020**, 181, 1445-1449	56.2	23
54	Regional Differences in Penetration of the Protein Stabilizer Trimethoprim (TMP) in the Rat Central Nervous System. *Frontiers in Molecular Neuroscience*, **2020**, 13, 167	6.1	
53	Microglia and Astrocytes in Disease: Dynamic Duo or Partners in Crime?. *Trends in Immunology*, **2020**, 41, 820-835	14.4	65
52	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. *Nature*, **2020**, 588, 459-465	56.4	38
51	Knockout of reactive astrocyte activating factors slows disease progression in an ALS mouse model. *Nature Communications*, **2020**, 11, 3753	17.4	62
50	Generating Cell Type-Specific Protein Signatures from Non-symptomatic and Diseased Tissues. *Annals of Biomedical Engineering*, **2020**, 48, 2218-2232	4.7	0
49	Microglia Metabolic Breakdown Drives Alzheimer's Pathology. *Cell Metabolism*, **2019**, 30, 405-406	24.6	5
48	Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration. *Nature Neuroscience*, **2019**, 22, 1635-1648	25.5	160
47	Modern approaches to investigating non-neuronal aspects of Alzheimer's disease. *FASEB Journal*, **2019**, 33, 1528-1535	0.9	9
46	Complement 3-astrocytes are highly abundant in prion diseases, but their abolishment led to an accelerated disease course and early dysregulation of microglia. *Acta Neuropathologica Communications*, **2019**, 7, 83	7.3	45
45	Astrocytes usurp neurons as a disease focus. *Nature Neuroscience*, **2019**, 22, 512-513	25.5	26
44	Don't forget astrocytes when targeting Alzheimer's disease. *British Journal of Pharmacology*, **2019**, 176, 3585-3598	8.6	18
43	PL-03-01: INGE GRUNDKE-IQBAL AWARD FOR ALZHEIMER'S RESEARCH: NEUROTOXIC REACTIVE ASTROCYTES ARE INDUCED BY ACTIVATED MICROGLIA **2019**, 15, P872-P872		
42	Astrocytes and microglia: Models and tools. *Journal of Experimental Medicine*, **2019**, 216, 71-83	16.6	66
41	Methotrexate Chemotherapy Induces Persistent Tri-glial Dysregulation that Underlies Chemotherapy-Related Cognitive Impairment. *Cell*, **2019**, 176, 43-55.e13	56.2	132
40	Bypassing the barrier: new routes for delivery of macromolecules to the central nervous system. *Journal of Physiology*, **2018**, 596, 361-362	3.9	1
39	Ben Barres (1954-2017). *Neuron*, **2018**, 97, 1211-1213	13.9	
38	Normal aging induces A1-like astrocyte reactivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1896-E1905	11.5	529

37	Astrocyte-derived interleukin-33 promotes microglial synapse engulfment and neural circuit development. *Science*, **2018**, 359, 1269-1273	33.3	235
36	Play It Again, SAM: Macrophages Control Peripheral Fat Metabolism. *Trends in Immunology*, **2018**, 39, 81-82	14.4	2
35	Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinson's disease. *Nature Medicine*, **2018**, 24, 931-938	50.5	413
34	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. *Cell Reports*, **2018**, 25, 1-9.e5	10.6	54
33	Neurotoxic reactive astrocytes are induced by activated microglia. *Nature*, **2017**, 541, 481-487	50.4	2875
32	Reactive Astrocytes: Production, Function, and Therapeutic Potential. *Immunity*, **2017**, 46, 957-967	32.3	900
31	Neurobiology: Diversity reaches the stars. *Nature*, **2017**, 548, 396-397	50.4	3
30	ApoE4 markedly exacerbates tau-mediated neurodegeneration in a mouse model of tauopathy. *Nature*, **2017**, 549, 523-527	50.4	520
29	New tools for studying microglia in the mouse and human CNS. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1738-46	11.5	949
28	Astrocytes: Adhesion Molecules and Immunomodulation. *Current Drug Targets*, **2016**, 17, 1871-1881	3	26
27	Regeneration: Not everything is scary about a glial scar. *Nature*, **2016**, 532, 182-3	50.4	27
26	SnapShot: Astrocytes in Health and Disease. *Cell*, **2015**, 162, 1170-1170.e1	56.2	78
25	The inner CSF-brain barrier: developmentally controlled access to the brain via intercellular junctions. *Frontiers in Neuroscience*, **2015**, 9, 16	5.1	68
24	Development of the choroid plexus and blood-CSF barrier. *Frontiers in Neuroscience*, **2015**, 9, 32	5.1	100
23	Influx mechanisms in the embryonic and adult rat choroid plexus: a transcriptome study. *Frontiers in Neuroscience*, **2015**, 9, 123	5.1	31
22	Correction: Zhang et al., An RNA-Sequencing Transcriptome and Splicing Database of Glia, Neurons, and Vascular Cells of the Cerebral Cortex. *Journal of Neuroscience*, **2015**, 35, 864-866	6.6	5
21	An RNA-sequencing transcriptome and splicing database of glia, neurons, and vascular cells of the cerebral cortex. *Journal of Neuroscience*, **2014**, 34, 11929-47	6.6	2837
20	Age-dependent transcriptome and proteome following transection of neonatal spinal cord of Monodelphis domestica (South American grey short-tailed opossum). *PLoS ONE*, **2014**, 9, e99080	3.7	21

19	Cellular specificity of the blood-CSF barrier for albumin transfer across the choroid plexus epithelium. *PLoS ONE*, **2014**, 9, e106592	3.7	23
18	Transporters of the blood-brain and blood-CSF interfaces in development and in the adult. *Molecular Aspects of Medicine*, **2013**, 34, 742-52	16.7	98
17	Developmental changes in the transcriptome of the rat choroid plexus in relation to neuroprotection. *Fluids and Barriers of the CNS*, **2013**, 10, 25	7	55
16	Immune responses at brain barriers and implications for brain development and neurological function in later life. *Frontiers in Integrative Neuroscience*, **2013**, 7, 61	3.2	44
15	Mechanisms that determine the internal environment of the developing brain: a transcriptomic, functional and ultrastructural approach. *PLoS ONE*, **2013**, 8, e65629	3.7	53
14	Barrier mechanisms in the developing brain. *Frontiers in Pharmacology*, **2012**, 3, 46	5.6	292
13	Molecular characterisation of transport mechanisms at the developing mouse blood-CSF interface: a transcriptome approach. *PLoS ONE*, **2012**, 7, e33554	3.7	57
12	Fluids and barriers of the CNS: a historical viewpoint. *Fluids and Barriers of the CNS*, **2011**, 8, 2	7	56
11	Modification of protein transfer across blood/cerebrospinal fluid barrier in response to altered plasma protein composition during development. *European Journal of Neuroscience*, **2011**, 33, 391-400	3.5	18
10	SPARC/osteonectin, an endogenous mechanism for targeting albumin to the blood-cerebrospinal fluid interface during brain development. *European Journal of Neuroscience*, **2011**, 34, 1062-73	3.5	15
9	Assessing blood-cerebrospinal fluid barrier permeability in the rat embryo. *Methods in Molecular Biology*, **2011**, 686, 247-65	1.4	4
8	Development of the lateral ventricular choroid plexus in a marsupial, Monodelphis domestica. *Cerebrospinal Fluid Research*, **2010**, 7, 16		31
7	Efflux mechanisms at the developing brain barriers: ABC-transporters in the fetal and postnatal rat. *Toxicology Letters*, **2010**, 197, 51-9	4.4	88
6	Cellular transfer of macromolecules across the developing choroid plexus of Monodelphis domestica. *European Journal of Neuroscience*, **2009**, 29, 253-66	3.5	40
5	The blood-CSF barrier explained: when development is not immaturity. *BioEssays*, **2008**, 30, 237-48	4.1	125
4	Blood-CSF barrier function in the rat embryo. *European Journal of Neuroscience*, **2006**, 24, 65-76	3.5	68
3	Cell-autonomous regulation of astrocyte activation by the circadian clock protein BMAL1		1
2	CD49f is a novel marker to purify functional human iPSC-derived astrocytes		2

1 Melanoma-secreted Amyloid Beta Suppresses Neuroinflammation and Promotes Brain Metastasis 2