

Shane A Liddelow

List of Publications by Citations

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

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	Neurotoxic reactive astrocytes are induced by activated microglia. <i>Nature</i> , 2017 , 541, 481-487	50.4	2875
71	An RNA-sequencing transcriptome and splicing database of glia, neurons, and vascular cells of the cerebral cortex. <i>Journal of Neuroscience</i> , 2014 , 34, 11929-47	6.6	2837
70	New tools for studying microglia in the mouse and human CNS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1738-46	11.5	949
69	Reactive Astrocytes: Production, Function, and Therapeutic Potential. <i>Immunity</i> , 2017 , 46, 957-967	32.3	900
68	Normal aging induces A1-like astrocyte reactivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1896-E1905	11.5	529
67	ApoE4 markedly exacerbates tau-mediated neurodegeneration in a mouse model of tauopathy. <i>Nature</i> , 2017 , 549, 523-527	50.4	520
66	Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinson's disease. <i>Nature Medicine</i> , 2018 , 24, 931-938	50.5	413
65	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021 , 24, 312-325	33.5	298
64	Barrier mechanisms in the developing brain. <i>Frontiers in Pharmacology</i> , 2012 , 3, 46	5.6	292
63	Astrocyte-derived interleukin-33 promotes microglial synapse engulfment and neural circuit development. <i>Science</i> , 2018 , 359, 1269-1273	33.3	235
62	Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration. <i>Nature Neuroscience</i> , 2019 , 22, 1635-1648	25.5	160
61	Methotrexate Chemotherapy Induces Persistent Tri-glia Dysregulation that Underlies Chemotherapy-Related Cognitive Impairment. <i>Cell</i> , 2019 , 176, 43-55.e13	56.2	132
60	The blood-CSF barrier explained: when development is not immaturity. <i>BioEssays</i> , 2008 , 30, 237-48	4.1	125
59	Development of the choroid plexus and blood-CSF barrier. <i>Frontiers in Neuroscience</i> , 2015 , 9, 32	5.1	100
58	Transporters of the blood-brain and blood-CSF interfaces in development and in the adult. <i>Molecular Aspects of Medicine</i> , 2013 , 34, 742-52	16.7	98
57	Efflux mechanisms at the developing brain barriers: ABC-transporters in the fetal and postnatal rat. <i>Toxicology Letters</i> , 2010 , 197, 51-9	4.4	88
56	SnapShot: Astrocytes in Health and Disease. <i>Cell</i> , 2015 , 162, 1170-1170.e1	56.2	78

55	The inner CSF-brain barrier: developmentally controlled access to the brain via intercellular junctions. <i>Frontiers in Neuroscience</i> , 2015 , 9, 16	5.1	68
54	Blood-CSF barrier function in the rat embryo. <i>European Journal of Neuroscience</i> , 2006 , 24, 65-76	3.5	68
53	Astrocytes and microglia: Models and tools. <i>Journal of Experimental Medicine</i> , 2019 , 216, 71-83	16.6	66
52	Microglia and Astrocytes in Disease: Dynamic Duo or Partners in Crime?. <i>Trends in Immunology</i> , 2020 , 41, 820-835	14.4	65
51	Knockout of reactive astrocyte activating factors slows disease progression in an ALS mouse model. <i>Nature Communications</i> , 2020 , 11, 3753	17.4	62
50	Molecular characterisation of transport mechanisms at the developing mouse blood-CSF interface: a transcriptome approach. <i>PLoS ONE</i> , 2012 , 7, e33554	3.7	57
49	Neurotoxic Reactive Astrocytes Drive Neuronal Death after Retinal Injury. <i>Cell Reports</i> , 2020 , 31, 107776	10.6	56
48	Fluids and barriers of the CNS: a historical viewpoint. <i>Fluids and Barriers of the CNS</i> , 2011 , 8, 2	7	56
47	Developmental changes in the transcriptome of the rat choroid plexus in relation to neuroprotection. <i>Fluids and Barriers of the CNS</i> , 2013 , 10, 25	7	55
46	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. <i>Cell Reports</i> , 2018 , 25, 1-9.e5	10.6	54
45	Mechanisms that determine the internal environment of the developing brain: a transcriptomic, functional and ultrastructural approach. <i>PLoS ONE</i> , 2013 , 8, e65629	3.7	53
44	Neuroinflammatory astrocyte subtypes in the mouse brain. <i>Nature Neuroscience</i> , 2021 , 24, 1475-1487	25.5	46
43	Complement 3-astrocytes are highly abundant in prion diseases, but their abolishment led to an accelerated disease course and early dysregulation of microglia. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 83	7.3	45
42	Neurotoxic reactive astrocytes induce cell death via saturated lipids. <i>Nature</i> , 2021 , 599, 102-107	50.4	45
41	Immune responses at brain barriers and implications for brain development and neurological function in later life. <i>Frontiers in Integrative Neuroscience</i> , 2013 , 7, 61	3.2	44
40	CD49f Is a Novel Marker of Functional and Reactive Human iPSC-Derived Astrocytes. <i>Neuron</i> , 2020 , 107, 436-453.e12	13.9	40
39	Cellular transfer of macromolecules across the developing choroid plexus of <i>Monodelphis domestica</i> . <i>European Journal of Neuroscience</i> , 2009 , 29, 253-66	3.5	40
38	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. <i>Nature</i> , 2020 , 588, 459-465	5.4	38

37	Influx mechanisms in the embryonic and adult rat choroid plexus: a transcriptome study. <i>Frontiers in Neuroscience</i> , 2015 , 9, 123	5.1	31
36	Development of the lateral ventricular choroid plexus in a marsupial, <i>Monodelphis domestica</i> . <i>Cerebrospinal Fluid Research</i> , 2010 , 7, 16		31
35	Regeneration: Not everything is scary about a glial scar. <i>Nature</i> , 2016 , 532, 182-3	50.4	27
34	Astrocytes usurp neurons as a disease focus. <i>Nature Neuroscience</i> , 2019 , 22, 512-513	25.5	26
33	Astrocytes: Adhesion Molecules and Immunomodulation. <i>Current Drug Targets</i> , 2016 , 17, 1871-1881	3	26
32	How Support of Early Career Researchers Can Reset Science in the Post-COVID19 World. <i>Cell</i> , 2020 , 181, 1445-1449	56.2	23
31	Cellular specificity of the blood-CSF barrier for albumin transfer across the choroid plexus epithelium. <i>PLoS ONE</i> , 2014 , 9, e106592	3.7	23
30	Astrocyte-immune cell interactions in physiology and pathology. <i>Immunity</i> , 2021 , 54, 211-224	32.3	23
29	Age-dependent transcriptome and proteome following transection of neonatal spinal cord of <i>Monodelphis domestica</i> (South American grey short-tailed opossum). <i>PLoS ONE</i> , 2014 , 9, e99080	3.7	21
28	Don't forget astrocytes when targeting Alzheimer's disease. <i>British Journal of Pharmacology</i> , 2019 , 176, 3585-3598	8.6	18
27	Modification of protein transfer across blood/cerebrospinal fluid barrier in response to altered plasma protein composition during development. <i>European Journal of Neuroscience</i> , 2011 , 33, 391-400	3.5	18
26	Activated microglia drive demyelination via CSF1R signaling. <i>Glia</i> , 2021 , 69, 1583-1604	9	18
25	SPARC/osteonectin, an endogenous mechanism for targeting albumin to the blood-cerebrospinal fluid interface during brain development. <i>European Journal of Neuroscience</i> , 2011 , 34, 1062-73	3.5	15
24	Modern approaches to investigating non-neuronal aspects of Alzheimer's disease. <i>FASEB Journal</i> , 2019 , 33, 1528-1535	0.9	9
23	An Overview of Astrocyte Responses in Genetically Induced Alzheimer's Disease Mouse Models. <i>Cells</i> , 2020 , 9,	7.9	8
22	Astrocytes and oligodendrocytes undergo subtype-specific transcriptional changes in Alzheimer's disease.. <i>Neuron</i> , 2022 ,	13.9	7
21	Microglia Metabolic Breakdown Drives Alzheimer's Pathology. <i>Cell Metabolism</i> , 2019 , 30, 405-406	24.6	5
20	Correction: Zhang et al., An RNA-Sequencing Transcriptome and Splicing Database of Glia, Neurons, and Vascular Cells of the Cerebral Cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 864-866	6.6	5

19	Isoform-dependent APOE secretion modulates neuroinflammation. <i>Nature Reviews Neurology</i> , 2021 , 17, 265-266	15	5
18	Single-cell delineation of lineage and genetic identity in the mouse brain.. <i>Nature</i> , 2021 ,	50.4	5
17	Solving neurodegeneration: common mechanisms and strategies for new treatments.. <i>Molecular Neurodegeneration</i> , 2022 , 17, 23	19	5
16	Assessing blood-cerebrospinal fluid barrier permeability in the rat embryo. <i>Methods in Molecular Biology</i> , 2011 , 686, 247-65	1.4	4
15	Neurobiology: Diversity reaches the stars. <i>Nature</i> , 2017 , 548, 396-397	50.4	3
14	Astrocytes. <i>Current Biology</i> , 2021 , 31, R326-R327	6.3	3
13	Monitoring phagocytic uptake of amyloid β into glial cell lysosomes in real time. <i>Chemical Science</i> , 2021 , 12, 10901-10918	9.4	3
12	Proteomic Alterations and Novel Markers of Neurotoxic Reactive Astrocytes in Human Induced Pluripotent Stem Cell Models.. <i>Frontiers in Molecular Neuroscience</i> , 2022 , 15, 870085	6.1	3
11	Play It Again, SAM: Macrophages Control Peripheral Fat Metabolism. <i>Trends in Immunology</i> , 2018 , 39, 81-82	14.4	2
10	CD49f is a novel marker to purify functional human iPSC-derived astrocytes		2
9	Melanoma-secreted Amyloid Beta Suppresses Neuroinflammation and Promotes Brain Metastasis		2
8	Melanoma-secreted Amyloid Beta Suppresses Neuroinflammation and Promotes Brain Metastasis.. <i>Cancer Discovery</i> , 2022 ,	24.4	2
7	Bypassing the barrier: new routes for delivery of macromolecules to the central nervous system. <i>Journal of Physiology</i> , 2018 , 596, 361-362	3.9	1
6	Cell-autonomous regulation of astrocyte activation by the circadian clock protein BMAL1		1
5	Astrocytes have a license to kill inflammatory T γ cells. <i>Immunity</i> , 2021 , 54, 614-616	32.3	0
4	Generating Cell Type-Specific Protein Signatures from Non-symptomatic and Diseased Tissues. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 2218-2232	4.7	0
3	Ben Barres (1954-2017). <i>Neuron</i> , 2018 , 97, 1211-1213	13.9	
2	Regional Differences in Penetration of the Protein Stabilizer Trimethoprim (TMP) in the Rat Central Nervous System. <i>Frontiers in Molecular Neuroscience</i> , 2020 , 13, 167	6.1	

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PL-03-01: INGE GRUNDKE-IQBAL AWARD FOR ALZHEIMER'S RESEARCH: NEUROTOXIC REACTIVE ASTROCYTES ARE INDUCED BY ACTIVATED MICROGLIA **2019**, 15, P872-P872