David J Loane

List of Publications by Year
in descending order

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71 papers	8,706 citations	38660 50 h-index	82410 72 g-index
77 all docs	77 docs citations	77 times ranked	8946 citing authors

#	Article	IF	Citations
1	The far-reaching scope of neuroinflammation after traumatic brain injury. Nature Reviews Neurology, 2017, 13, 171-191.	4.9	687
2	Neuroinflammation after traumatic brain injury: Opportunities for therapeutic intervention. Brain, Behavior, and Immunity, 2012, 26, 1191-1201.	2.0	550
3	Role of Microglia in Neurotrauma. Neurotherapeutics, 2010, 7, 366-377.	2.1	541
4	Microglia in the TBI brain: The good, the bad, and the dysregulated. Experimental Neurology, 2016, 275, 316-327.	2.0	519
5	Neuroprotection for traumatic brain injury: translational challenges and emerging therapeutic strategies. Trends in Pharmacological Sciences, 2010, 31, 596-604.	4.0	485
6	Progressive Neurodegeneration After Experimental Brain Trauma. Journal of Neuropathology and Experimental Neurology, 2014, 73, 14-29.	0.9	406
7	Microglial/Macrophage Polarization Dynamics following Traumatic Brain Injury. Journal of Neurotrauma, 2016, 33, 1732-1750.	1.7	248
8	Sexual dimorphism in the inflammatory response to traumatic brain injury. Glia, 2017, 65, 1423-1438.	2.5	230
9	Microglial-derived microparticles mediate neuroinflammation after traumatic brain injury. Journal of Neuroinflammation, 2017, 14, 47.	3.1	228
10	Amyloid precursor protein secretases as therapeutic targets for traumatic brain injury. Nature Medicine, 2009, 15, 377-379.	15.2	219
11	Progressive inflammationâ€mediated neurodegeneration after traumatic brain or spinal cord injury. British Journal of Pharmacology, 2016, 173, 681-691.	2.7	217
12	Traumatic brain injury in aged animals increases lesion size and chronically alters microglial/macrophage classical and alternative activation states. Neurobiology of Aging, 2013, 34, 1397-1411.	1.5	213
13	Chronic Neurodegeneration After Traumatic Brain Injury: Alzheimer Disease, Chronic Traumatic Encephalopathy, or Persistent Neuroinflammation?. Neurotherapeutics, 2015, 12, 143-150.	2.1	199
14	Microglial Depletion with CSF1R Inhibitor During Chronic Phase of Experimental Traumatic Brain Injury Reduces Neurodegeneration and Neurological Deficits. Journal of Neuroscience, 2020, 40, 2960-2974.	1.7	193
15	Metabotropic glutamate receptor 5 activation inhibits microglial associated inflammation and neurotoxicity. Glia, 2009, 57, 550-560.	2.5	157
16	NOX2 drives M1-like microglial/macrophage activation and neurodegeneration following experimental traumatic brain injury. Brain, Behavior, and Immunity, 2016, 58, 291-309.	2.0	152
17	Delayed mGluR5 activation limits neuroinflammation and neurodegeneration after traumatic brain injury. Journal of Neuroinflammation, 2012, 9, 43.	3.1	144
18	Eicosapentaenoic acid confers neuroprotection in the amyloid-Î² challenged aged hippocampus. Neurobiology of Aging, 2007, 28, 845-855.	1.5	135

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19	Downregulation of miR-23a and miR-27a following Experimental Traumatic Brain Injury Induces Neuronal Cell Death through Activation of Proapoptotic Bcl-2 Proteins. Journal of Neuroscience, 2014, 34, 10055-10071.	1.7	129
20	Late exercise reduces neuroinflammation and cognitive dysfunction after traumatic brain injury. Neurobiology of Disease, 2013, 54, 252-263.	2.1	127
21	Metabotropic Glutamate Receptors as Targets for Multipotential Treatment of Neurological Disorders. Neurotherapeutics, 2009, 6, 94-107.	2.1	112
22	Bidirectional brain-gut interactions and chronic pathological changes after traumatic brain injury in mice. Brain, Behavior, and Immunity, 2017, 66, 56-69.	2.0	109
23	Sex Differences in Acute Neuroinflammation after Experimental Traumatic Brain Injury Are Mediated by Infiltrating Myeloid Cells. Journal of Neurotrauma, 2019, 36, 1040-1053.	1.7	105
24	PARP-1 Inhibition Attenuates Neuronal Loss, Microglia Activation and Neurological Deficits after Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 758-772.	1.7	103
25	Old age increases microglial senescence, exacerbates secondary neuroinflammation, and worsens neurological outcomes after acute traumatic brain injury in mice. Neurobiology of Aging, 2019, 77, 194-206.	1.5	99
26	Activation of Metabotropic Glutamate Receptor 5 Modulates Microglial Reactivity and Neurotoxicity by Inhibiting NADPH Oxidase. Journal of Biological Chemistry, 2009, 284, 15629-15639.	1.6	96
27	Endoplasmic Reticulum Stress and Disrupted Neurogenesis in the Brain Are Associated with Cognitive Impairment and Depressive-Like Behavior after Spinal Cord Injury. Journal of Neurotrauma, 2016, 33, 1919-1935.	1.7	94
28	Comparing the Predictive Value of Multiple Cognitive, Affective, and Motor Tasks after Rodent Traumatic Brain Injury. Journal of Neurotrauma, 2012, 29, 2475-2489.	1.7	91
29	Modulation of amyloid-Î²-induced and age-associated changes in rat hippocampus by eicosapentaenoic acid. Journal of Neurochemistry, 2007, 103, 914-926.	2.1	90
30	Interleukin-4 mediates the neuroprotective effects of rosiglitazone in the aged brain. Neurobiology of Aging, 2009, 30, 920-931.	1.5	90
31	Delayed microglial depletion after spinal cord injury reduces chronic inflammation and neurodegeneration in the brain and improves neurological recovery in male mice. Theranostics, 2020, 10, 11376-11403.	4.6	88
32	Brain-gut axis dysfunction in the pathogenesis of traumatic brain injury. Journal of Clinical Investigation, 2021, 131, .	3.9	86
33	Selective CDK Inhibitor Limits Neuroinflammation and Progressive Neurodegeneration after Brain Trauma. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 137-149.	2.4	82
34	Controlled Cortical Impact Results in an Extensive Loss of Dendritic Spines that Is Not Mediated by Injury-Induced Amyloid-Beta Accumulation. Journal of Neurotrauma, 2013, 30, 1966-1972.	1.7	80
35	Chronic Alterations in Systemic Immune Function after Traumatic Brain Injury. Journal of Neurotrauma, 2018, 35, 1419-1436.	1.7	79
36	Activation of mGluR5 and Inhibition of NADPH Oxidase Improves Functional Recovery after Traumatic Brain Injury. Journal of Neurotrauma, 2013, 30, 403-412.	1.7	78

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37	Interferon-Î² Plays a Detrimental Role in Experimental Traumatic Brain Injury by Enhancing Neuroinflammation That Drives Chronic Neurodegeneration. Journal of Neuroscience, 2020, 40, 2357-2370.	1.7	78
38	Activation of metabotropic glutamate receptor 5 improves recovery after spinal cord injury in rodents. Annals of Neurology, 2009, 66, 63-74.	2.8	71
39	Novel mGluR5 Positive Allosteric Modulator Improves Functional Recovery, Attenuates Neurodegeneration, and Alters Microglial Polarization after Experimental Traumatic Brain Injury. Neurotherapeutics, 2014, 11, 857-869.	2.1	70
40	Co-assembly of N-type Ca2+ and BK channels underlies functional coupling in rat brain. Journal of Cell Science, 2007, 120, 985-995.	1.2	68
41	Neuroprotection for traumatic brain injury. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 127, 343-366.	1.0	68
42	miR-711 upregulation induces neuronal cell death after traumatic brain injury. Cell Death and Differentiation, 2016, 23, 654-668.	5.0	67
43	NOX2 deficiency alters macrophage phenotype through an IL-10/STAT3 dependent mechanism: implications for traumatic brain injury. Journal of Neuroinflammation, 2017, 14, 65.	3.1	65
44	Acute drivers of neuroinflammation in traumatic brain injury. Neural Regeneration Research, 2019, 14, 1481.	1.6	59
45	Inhibition of miR-155 Limits Neuroinflammation and Improves Functional Recovery After Experimental Traumatic Brain Injury in Mice. Neurotherapeutics, 2019, 16, 216-230.	2.1	57
46	CR8, a Novel Inhibitor of CDK, Limits Microglial Activation, Astrocytosis, Neuronal Loss, and Neurologic Dysfunction after Experimental Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 502-513.	2.4	56
47	Modulation of ABCA1 by an LXR Agonist Reduces Beta-Amyloid Levels and Improves Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2011, 28, 225-236.	1.7	54
48	Cyclin D1 Gene Ablation Confers Neuroprotection in Traumatic Brain Injury. Journal of Neurotrauma, 2012, 29, 813-827.	1.7	53
49	Combined inhibition of cell death induced by apoptosis inducing factor and caspases provides additive neuroprotection in experimental traumatic brain injury. Neurobiology of Disease, 2012, 46, 745-758.	2.1	52
50	CR8, a Selective and Potent CDK Inhibitor, Provides Neuroprotection in Experimental Traumatic Brain Injury. Neurotherapeutics, 2012, 9, 405-421.	2.1	49
51	Primum non nocere: a call for balance when reporting on CTE. Lancet Neurology, The, 2019, 18, 231-233.	4.9	48
52	Neutral Sphingomyelinase Inhibition Alleviates LPS-Induced Microglia Activation and Neuroinflammation after Experimental Traumatic Brain Injury. Journal of Pharmacology and Experimental Therapeutics, 2019, 368, 338-352.	1.3	42
53	Neuroprotective Effects of Geranylgeranylacetone in Experimental Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1897-1908.	2.4	39
54	S100B Inhibition Reduces Behavioral and Pathologic Changes in Experimental Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 2010-2020.	2.4	37

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55	Metabotropic glutamate receptorâ€mediated signaling in neuroglia. Environmental Sciences Europe, 2012, 1, 136-150.	2.6	36
56	Inflammatory response of microglia to prions is controlled by sialylation of PrPSc. Scientific Reports, 2018, 8, 11326.	1.6	34
57	The need to incorporate aged animals into the preclinical modeling of neurological conditions. Neuroscience and Biobehavioral Reviews, 2020, 109, 114-128.	2.9	33
58	Traumatic Brain Injury Induces cGAS Activation and Type I Interferon Signaling in Aged Mice. Frontiers in Immunology, 2021, 12, 710608.	2.2	33
59	Acute colitis during chronic experimental traumatic brain injury in mice induces dysautonomia and persistent extraintestinal, systemic, and CNS inflammation with exacerbated neurological deficits. Journal of Neuroinflammation, 2021, 18, 24.	3.1	31
60	CD38 Knockout Mice Show Significant Protection Against Ischemic Brain Damage Despite High Level Poly-ADP-Ribosylation. Neurochemical Research, 2017, 42, 283-293.	1.6	24
61	Enhanced Akt/GSKâ€3Î²/CREB signaling mediates the antiâ€inflammatory actions of mGluR5 positive allosteric modulators in microglia and following traumatic brain injury in male mice. Journal of Neurochemistry, 2021, 156, 225-248.	2.1	24
62	Early or Late Bacterial Lung Infection Increases Mortality After Traumatic Brain Injury in Male Mice and Chronically Impairs Monocyte Innate Immune Function. Critical Care Medicine, 2020, 48, e418-e428.	0.4	22
63	Pre-Clinical Common Data Elements for Traumatic Brain Injury Research: Progress and Use Cases. Journal of Neurotrauma, 2021, 38, 1399-1410.	1.7	22
64	Inhibition of BKCachannel activity by association with calcineurin in rat brain. European Journal of Neuroscience, 2006, 24, 433-441.	1.2	16
65	Combination of Fluorescent in situ Hybridization (FISH) and Immunofluorescence Imaging for Detection of Cytokine Expression in Microglia/Macrophage Cells. Bio-protocol, 2017, 7, .	0.2	12
66	Longitudinal Assessment of Sensorimotor Function after Controlled Cortical Impact in Mice: Comparison of Beamwalk, Rotarod, and Automated Gait Analysis Tests. Journal of Neurotrauma, 2020, 37, 2709-2717.	1.7	6
67	Targeting chronic and evolving neuroinflammation following traumatic brain injury to improve long-term outcomes: insights from microglial-depletion models. Neural Regeneration Research, 2021, 16, 976.	1.6	3
68	Putative mGluR4 positive allosteric modulators activate Gi-independent anti-inflammatory mechanisms in microglia. Neurochemistry International, 2020, 138, 104770.	1.9	2
69	Traumatic meningeal injury and repair mechanisms. Nature Immunology, 2018, 19, 431-432.	7.0	1
70	MAnGLed astrocytes in traumatic brain injury: astrocytic 2-AG metabolism as a new therapeutic target. Brain, 2022, 145, 7-10.	3.7	1
71	Colitisâ€Induced Neurobehavioral Deficits Following Chronic Brain Injury. FASEB Journal, 2018, 32, 921.8.	0.2	0