Charles L Howe

List of Publications by Year in descending order

78 papers	5,128 citations	109137 35 h-index	88477 70 g-index
83 all docs	83 docs citations	83 times ranked	6587 citing authors

#	Article	IF	Citations
1	Nerve Growth Factor Signaling, Neuroprotection, and Neural Repair. Annual Review of Neuroscience, 2001, 24, 1217-1281.	5.0	1,146
2	Aquaporin-4â€“binding autoantibodies in patients with neuromyelitis optica impair glutamate transport by down-regulating EAAT2. Journal of Experimental Medicine, 2008, 205, 2473-2481.	4.2	330
3	Failed retrograde transport of NGF in a mouse model of Down's syndrome: Reversal of cholinergic neurodegenerative phenotypes following NGF infusion. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10439-10444.	3.3	320
4	NGF Signaling from Clathrin-Coated Vesicles. Neuron, 2001, 32, 801-814.	3.8	314
5	Febrile infectionâ€related epilepsy syndrome treated with anakinra. Annals of Neurology, 2016, 80, 939-945.	2.8	208
6	Signaling endosome hypothesis: A cellular mechanism for long distance communication. Journal of Neurobiology, 2004, 58, 207-216.	3.7	179
7	Long-distance retrograde neurotrophic signaling. Current Opinion in Neurobiology, 2005, 15, 40-48.	2.0	169
8	NGF Signals through TrkA to Increase Clathrin at the Plasma Membrane and Enhance Clathrin-Mediated Membrane Trafficking. Journal of Neuroscience, 2000, 20, 7325-7333.	1.7	119
9	Expanded Clinical Phenotype, Oncological Associations, and Immunopathologic Insights of Paraneoplastic Kelch-like Protein-11 Encephalitis. JAMA Neurology, 2020, 77, 1420.	4.5	109
10	Nerve growth factor and the neurotrophic factor hypothesis. Brain and Development, 1996, 18, 362-368.	0.6	108
11	Picornaviruses and cell death. Trends in Microbiology, 2006, 14, 28-36.	3.5	88
12	TRAIL mediates liver injury by the innate immune system in the bile duct-ligated mouse. Hepatology, 2008, 47, 1317-1330.	3.6	82
13	Gamma Interferon Is Critical for Neuronal Viral Clearance and Protection in a Susceptible Mouse Strain following Early Intracranial Theiler's Murine Encephalomyelitis Virus Infection. Journal of Virology, 2003, 77, 12252-12265.	1.5	80
14	Functional deficiency in endogenous interleukinâ€1 receptor antagonist in patients with febrile infectionâ€related epilepsy syndrome. Annals of Neurology, 2019, 85, 526-537.	2.8	79
15	Neuromyelitis optica IgG stimulates an immunological response in rat astrocyte cultures. Glia, 2014, 62, 692-708.	2.5	78
16	Interleukin-6 Protects Anterior Horn Neurons from Lethal Virus-Induced Injury. Journal of Neuroscience, 2003, 23, 481-492.	1.7	67
17	Automated identification of multiple seizure-related and interictal epileptiform event types in the EEG of mice. Scientific Reports, 2013, 3, 1483.	1.6	63
18	Differential endocytic sorting of p75NTR and TrkA in response to NGF: a role for late endosomes in TrkA trafficking. Molecular and Cellular Neurosciences, 2005, 28, 571-587.	1.0	61

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19	Antiapoptotic signaling by a remyelination-promoting human antimyelin antibody. Neurobiology of Disease, 2004, 15, 120-131.	2.1	60
20	Apoptosis of Hippocampal Pyramidal Neurons Is Virus Independent in a Mouse Model of Acute Neurovirulent Picornavirus Infection. American Journal of Pathology, 2009, 175, 668-684.	1.9	58
21	Inflammatory monocytes damage the hippocampus during acute picornavirus infection of the brain. Journal of Neuroinflammation, 2012, 9, 50.	3.1	58
22	Absence of perforin expression confers axonal protection despite demyelination. Neurobiology of Disease, 2007, 25, 354-359.	2.1	56
23	Pathogenic implications of cerebrospinal fluid barrier pathology in neuromyelitis optica. Acta Neuropathologica, 2017, 133, 597-612.	3.9	53
24	Disrupted spatial memory is a consequence of picornavirus infection. Neurobiology of Disease, 2006, 24, 266-273.	2.1	50
25	Beta-methylamino-alanine (BMAA) injures hippocampal neurons in vivo. NeuroToxicology, 2007, 28, 702-704.	1.4	50
26	Modeling the signaling endosome hypothesis: why a drive to the nucleus is better than a (random) walk. , 2005, 2, 43.		49
27	Demyelinated Axons and Motor Function Are Protected by Genetic Deletion of Perforin in a Mouse Model of Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 2009, 68, 1037-1048.	0.9	43
28	Inflammatory changes in the central nervous system are associated with behavioral impairment in Plasmodium berghei (strain ANKA)-infected mice. Experimental Parasitology, 2010, 125, 271-278.	0.5	43
29	Neuronal CCL2 expression drives inflammatory monocyte infiltration into the brain during acute virus infection. Journal of Neuroinflammation, 2017, 14, 238.	3.1	43
30	Therapeutic doses of cranial irradiation induce hippocampus-dependent cognitive deficits in young mice. Journal of Neuro-Oncology, 2011, 105, 191-198.	1.4	42
31	Hippocampal protection in mice with an attenuated inflammatory monocyte response to acute CNS picornavirus infection. Scientific Reports, 2012, 2, 545.	1.6	42
32	Proteolipid Protein Gene Expression in Demyelination and Remyelination of the Central Nervous System: A Model for Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 1994, 53, 136-143.	0.9	41
33	Trafficking the NGF signal: implications for normal and degenerating neurons. Progress in Brain Research, 2004, 146, 1-23.	0.9	41
34	CD8+ T cells directed against a viral peptide contribute to loss of motor function by disrupting axonal transport in a viral model of fulminant demyelination. Journal of Neuroimmunology, 2007, 188, 13-21.	1.1	41
35	Axons are injured by antigen-specific CD8+ T cells through a MHC class I- and granzyme B-dependent mechanism. Neurobiology of Disease, 2013, 59, 194-205.	2.1	41
36	Growth factor treatment of demyelinating disease: at last, a leap into the light. Trends in Immunology, 2002, 23, 512-516.	2.9	40

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37	CD8+ T Cells Cause Disability and Axon Loss in a Mouse Model of Multiple Sclerosis. PLoS ONE, 2010, 5, e12478.	1.1	34
38	The STAT3 beacon: IL-6 recurrently activates STAT 3 from endosomal structures. Experimental Cell Research, 2011, 317, 1955-1969.	1.2	33
39	Inflammatory cytokine-induced changes in neural network activity measured by waveform analysis of high-content calcium imaging in murine cortical neurons. Scientific Reports, 2017, 7, 9037.	1.6	33
40	Neuropilin-1 modulates interferon-Î³-stimulated signaling in brain microvascular endothelial cells. Journal of Cell Science, 2016, 129, 3911-3921.	1.2	32
41	Isolation of Brain-infiltrating Leukocytes. Journal of Visualized Experiments, 2011, , .	0.2	29
42	Human Monoclonal IgM Antibody Promotes CNS Myelin Repair Independent of Fc Function. Brain Pathology, 2003, 13, 608-616.	2.1	28
43	Fueling the <scp>FIRES</scp>: Hemophagocytic lymphohistiocytosis in febrile infectionâ€related epilepsy syndrome. Epilepsia, 2018, 59, 1753-1763.	2.6	28
44	NFÎºB signaling drives pro-granulocytic astroglial responses to neuromyelitis optica patient IgG. Journal of Neuroinflammation, 2015, 12, 185.	3.1	27
45	Leucine Zipper 4 Autoantibody: A Novel Germ Cell Tumor and Paraneoplastic Biomarker. Annals of Neurology, 2021, 89, 1001-1010.	2.8	27
46	Coated Glass and Vicryl Microfibers as Artificial Axons. Cells Tissues Organs, 2006, 183, 180-194.	1.3	25
47	Activated microglia stimulate transcriptional changes in primary oligodendrocytes via IL-1Î². Neurobiology of Disease, 2006, 23, 731-739.	2.1	24
48	Searching historical herbal texts for potential new drugs. BMJ: British Medical Journal, 2006, 333, 1314-1315.	2.4	24
49	Tumor Necrosis Factor Î± is Reparative via TNFR1 in the Hippocampus and via TNFR2 in the Striatum after Virusâ€Induced Encephalitis. Brain Pathology, 2009, 19, 12-26.	2.1	24
50	Differences in the surface binding and endocytosis of neurotrophins by p75NTR. Molecular and Cellular Neurosciences, 2004, 26, 292-307.	1.0	21
51	Depolarization of PC12 cells induces neurite outgrowth and enhances nerve growth factor-induced neurite outgrowth in rats. Neuroscience Letters, 2003, 351, 41-45.	1.0	20
52	Neuroprotection mediated by inhibition of calpain during acute viral encephalitis. Scientific Reports, 2016, 6, 28699.	1.6	19
53	IgM Natural Autoantibodies in Physiology and the Treatment of Disease. Methods in Molecular Biology, 2019, 1904, 53-81.	0.4	19
54	A randomized Phase I study of Atuna racemosa: A potential new anti-MRSA natural product extract. Journal of Ethnopharmacology, 2007, 114, 371-376.	2.0	18

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55	SUBCUTANEOUS IGF-1 IS NOT BENEFICIAL IN 2-YEAR ALS TRIAL. Neurology, 2009, 73, 1247-1248.	1.5	18
56	Spectrum of sublytic astrocytopathy in neuromyelitis optica. Brain, 2022, 145, 1379-1390.	3.7	18
57	Induction of a gene expression program in dendritic cells with a cross-linking IgM antibody to the co-stimulatory molecule B7-DC. FASEB Journal, 2006, 20, 2408-2410.	0.2	15
58	A high-throughput 3-parameter flow cytometry-based cell death assay. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 170-173.	1.1	14
59	Retrograde interferonâ€gamma signaling induces major histocompatibility class I expression in humanâ€induced pluripotent stem cellâ€derived neurons. Annals of Clinical and Translational Neurology, 2018, 5, 172-185.	1.7	14
60	STAT4â€•and STAT6â€signaling molecules in a murine model of multiple sclerosis. FASEB Journal, 2006, 20, 343-345.	0.2	13
61	Molecular Mechanisms in the Genesis of Seizures and Epilepsy Associated With Viral Infection. Frontiers in Molecular Neuroscience, 2022, 15, .	1.4	13
62	Functional characterization of mouse spinal cord infiltrating CD8+ lymphocytes. Journal of Neuroimmunology, 2009, 214, 33-42.	1.1	12
63	Inflammatory monocytes and microglia play independent roles in inflammatory ictogenesis. Journal of Neuroinflammation, 2022, 19, 22.	3.1	12
64	Microdialysis and microperfusion electrodes in neurologic disease monitoring. Fluids and Barriers of the CNS, 2021, 18, 52.	2.4	11
65	NKG2D contributes to efficient clearance of picornavirus from the acutely infected murine brain. Journal of NeuroVirology, 2008, 14, 261-266.	1.0	10
66	Teriflunomide shifts the astrocytic bioenergetic profile from oxidative metabolism to glycolysis and attenuates TNFÎ±-induced inflammatory responses. Scientific Reports, 2022, 12, 3049.	1.6	10
67	Preparation of biologically active subcellular fractions using the Balch homogenizer. Analytical Biochemistry, 2009, 394, 117-124.	1.1	9
68	Citrullinated myelin induces microglial TNFÎ± and inhibits endogenous repair in the cuprizone model of demyelination. Journal of Neuroinflammation, 2021, 18, 305.	3.1	9
69	Influenza vaccine and Guillain-BarrÃ© syndrome: making informed decisions. Lancet, The, 2013, 381, 1437-1439.	6.3	8
70	Signatures of cell stress and altered bioenergetics in skin fibroblasts from patients with multiple sclerosis. Aging, 2020, 12, 15134-15156.	1.4	8
71	Human HLA-DR Transgenes Protect Mice from Fatal Virus-Induced Encephalomyelitis and Chronic Demyelination. Journal of Virology, 2008, 82, 3369-3380.	1.5	4
72	Remyelination as Neuroprotection. , 2005, , 389-419.		3

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73	Systemic evidence of acute seizure-associated elevation in serum neuronal injury biomarker in patients with temporal lobe epilepsy. Acta Epileptologica, 2019, 1, .	0.4	3
74	Remyelination-Promoting DNA Aptamer Conjugate Myaptavin-3064 Binds to Adult Oligodendrocytes In Vitro. Pharmaceuticals, 2020, 13, 403.	1.7	3
75	Methods for intratumoral microdialysis probe targeting and validation in murine brain tumor models. Journal of Neuroscience Methods, 2021, 363, 109321.	1.3	3
76	A Cbl:clathrin complex involved in NGF signaling for neurite outgrowth. Neuroscience Research Communications, 2003, 33, 86-98.	0.2	2
77	The NKG2D ligand MULTâ€1 is upregulated in the brain following infection with Theiler's murine encephalomyelitis virus. FASEB Journal, 2006, 20, LB24.	0.2	0
78	Role of NKG2D in viral clearance from brain during infection with the Theilerâ€™s murine encephalomyelitis virus (TMEV). FASEB Journal, 2007, 21, A1393.	0.2	0