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	Spectrum of sublytic astrocytopathy in neuromyelitis optica. Brain, 2022, 145, 1379-1390.	3.7	18
2	Inflammatory monocytes and microglia play independent roles in inflammatory ictogenesis. Journal of Neuroinflammation, 2022, 19, 22.	3.1	12
3	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
4	Molecular Mechanisms in the Genesis of Seizures and Epilepsy Associated With Viral Infection. Frontiers in Molecular Neuroscience, 2022, 15, .	1.4	13
5	Leucine Zipper 4 Autoantibody: A Novel Germ Cell Tumor and Paraneoplastic Biomarker. Annals of Neurology, 2021, 89, 1001-1010.	2.8	27
6	Methods for intratumoral microdialysis probe targeting and validation in murine brain tumor models. Journal of Neuroscience Methods, 2021, 363, 109321.	1.3	3
7	Microdialysis and microperfusion electrodes in neurologic disease monitoring. Fluids and Barriers of the CNS, 2021, 18, 52.	2.4	11
8	Citrullinated myelin induces microglial TNFÎ± and inhibits endogenous repair in the cuprizone model of demyelination. Journal of Neuroinflammation, 2021, 18, 305.	3.1	9
9	Remyelination-Promoting DNA Aptamer Conjugate Myaptavin-3064 Binds to Adult Oligodendrocytes In Vitro. Pharmaceuticals, 2020, 13, 403.	1.7	3
10	Expanded Clinical Phenotype, Oncological Associations, and Immunopathologic Insights of Paraneoplastic Kelch-like Protein-11 Encephalitis. JAMA Neurology, 2020, 77, 1420.	4.5	109
11	Signatures of cell stress and altered bioenergetics in skin fibroblasts from patients with multiple sclerosis. Aging, 2020, 12, 15134-15156.	1.4	8
12	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
13	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
14	IgM Natural Autoantibodies in Physiology and the Treatment of Disease. Methods in Molecular Biology, 2019, 1904, 53-81.	0.4	19
15	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
16	Fueling the <scp>FIRES</scp>: Hemophagocytic lymphohistiocytosis in febrile infectionâ€related epilepsy syndrome. Epilepsia, 2018, 59, 1753-1763.	2.6	28
17	Pathogenic implications of cerebrospinal fluid barrier pathology in neuromyelitis optica. Acta Neuropathologica, 2017, 133, 597-612.	3.9	53
18	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

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19	Neuronal CCL2 expression drives inflammatory monocyte infiltration into the brain during acute virus infection. Journal of Neuroinflammation, 2017, 14, 238.	3.1	43
20	Neuroprotection mediated by inhibition of calpain during acute viral encephalitis. Scientific Reports, 2016, 6, 28699.	1.6	19
21	Neuropilin-1 modulates interferon-Î³-stimulated signaling in brain microvascular endothelial cells. Journal of Cell Science, 2016, 129, 3911-3921.	1.2	32
22	Febrile infectionâ€related epilepsy syndrome treated with anakinra. Annals of Neurology, 2016, 80, 939-945.	2.8	208
23	NFÎºB signaling drives pro-granulocytic astroglial responses to neuromyelitis optica patient IgG. Journal of Neuroinflammation, 2015, 12, 185.	3.1	27
24	Neuromyelitis optica IgG stimulates an immunological response in rat astrocyte cultures. Glia, 2014, 62, 692-708.	2.5	78
25	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
26	Influenza vaccine and Guillain-BarrÃ© syndrome: making informed decisions. Lancet, The, 2013, 381, 1437-1439.	6.3	8
27	Automated identification of multiple seizure-related and interictal epileptiform event types in the EEG of mice. Scientific Reports, 2013, 3, 1483.	1.6	63
28	Hippocampal protection in mice with an attenuated inflammatory monocyte response to acute CNS picornavirus infection. Scientific Reports, 2012, 2, 545.	1.6	42
29	Inflammatory monocytes damage the hippocampus during acute picornavirus infection of the brain. Journal of Neuroinflammation, 2012, 9, 50.	3.1	58
30	Isolation of Brain-infiltrating Leukocytes. Journal of Visualized Experiments, 2011, , .	0.2	29
31	The STAT3 beacon: IL-6 recurrently activates STAT 3 from endosomal structures. Experimental Cell Research, 2011, 317, 1955-1969.	1.2	33
32	Therapeutic doses of cranial irradiation induce hippocampus-dependent cognitive deficits in young mice. Journal of Neuro-Oncology, 2011, 105, 191-198.	1.4	42
33	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
34	CD8+ T Cells Cause Disability and Axon Loss in a Mouse Model of Multiple Sclerosis. PLoS ONE, 2010, 5, e12478.	1.1	34
35	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
36	SUBCUTANEOUS IGF-1 IS NOT BENEFICIAL IN 2-YEAR ALS TRIAL. Neurology, 2009, 73, 1247-1248.	1.5	18

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37	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
38	Preparation of biologically active subcellular fractions using the Balch homogenizer. Analytical Biochemistry, 2009, 394, 117-124.	1.1	9
39	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
40	Functional characterization of mouse spinal cord infiltrating CD8+ lymphocytes. Journal of Neuroimmunology, 2009, 214, 33-42.	1.1	12
41	TRAIL mediates liver injury by the innate immune system in the bile duct-ligated mouse. Hepatology, 2008, 47, 1317-1330.	3.6	82
42	NKG2D contributes to efficient clearance of picornavirus from the acutely infected murine brain. Journal of NeuroVirology, 2008, 14, 261-266.	1.0	10
43	Human HLA-DR Transgenes Protect Mice from Fatal Virus-Induced Encephalomyelitis and Chronic Demyelination. Journal of Virology, 2008, 82, 3369-3380.	1.5	4
44	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
45	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
46	Beta-methylamino-alanine (BMAA) injures hippocampal neurons in vivo. NeuroToxicology, 2007, 28, 702-704.	1.4	50
47	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
48	Absence of perforin expression confers axonal protection despite demyelination. Neurobiology of Disease, 2007, 25, 354-359.	2.1	56
49	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
50	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
51	Coated Glass and Vicryl Microfibers as Artificial Axons. Cells Tissues Organs, 2006, 183, 180-194.	1.3	25
52	Picornaviruses and cell death. Trends in Microbiology, 2006, 14, 28-36.	3.5	88
53	Activated microglia stimulate transcriptional changes in primary oligodendrocytes via IL-1Î². Neurobiology of Disease, 2006, 23, 731-739.	2.1	24
54	Disrupted spatial memory is a consequence of picornavirus infection. Neurobiology of Disease, 2006, 24, 266-273.	2.1	50

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55	Searching historical herbal texts for potential new drugs. BMJ: British Medical Journal, 2006, 333, 1314-1315.	2.4	24
56	STAT4â€•and STAT6â€šsignaling molecules in a murine model of multiple sclerosis. FASEB Journal, 2006, 20, 343-345.	0.2	13
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	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
59	Long-distance retrograde neurotrophic signaling. Current Opinion in Neurobiology, 2005, 15, 40-48.	2.0	169
60	Modeling the signaling endosome hypothesis: why a drive to the nucleus is better than a (random) walk. , 2005, 2, 43.		49
61	Remyelination as Neuroprotection. , 2005, , 389-419.		3
62	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
63	Trafficking the NGF signal: implications for normal and degenerating neurons. Progress in Brain Research, 2004, 146, 1-23.	0.9	41
64	Signaling endosome hypothesis: A cellular mechanism for long distance communication. Journal of Neurobiology, 2004, 58, 207-216.	3.7	179
65	Antiapoptotic signaling by a remyelination-promoting human antimyelin antibody. Neurobiology of Disease, 2004, 15, 120-131.	2.1	60
66	Differences in the surface binding and endocytosis of neurotrophins by p75NTR. Molecular and Cellular Neurosciences, 2004, 26, 292-307.	1.0	21
67	A Cbl:clathrin complex involved in NGF signaling for neurite outgrowth. Neuroscience Research Communications, 2003, 33, 86-98.	0.2	2
68	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
69	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
70	Interleukin-6 Protects Anterior Horn Neurons from Lethal Virus-Induced Injury. Journal of Neuroscience, 2003, 23, 481-492.	1.7	67
71	Human Monoclonal IgM Antibody Promotes CNS Myelin Repair Independent of Fc Function. Brain Pathology, 2003, 13, 608-616.	2.1	28
72	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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73	NGF Signaling from Clathrin-Coated Vesicles. Neuron, 2001, 32, 801-814.	3.8	314
74	Nerve Growth Factor Signaling, Neuroprotection, and Neural Repair. Annual Review of Neuroscience, 2001, 24, 1217-1281.	5.0	1,146
75	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
76	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
77	Nerve growth factor and the neurotrophic factor hypothesis. Brain and Development, 1996, 18, 362-368.	0.6	108
78	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