

# Charles L Howe

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

5,128  
citations

109321

35  
h-index

88630

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. <i>Brain</i> , 2022, 145, 1379-1390.	7.6	18
2	Inflammatory monocytes and microglia play independent roles in inflammatory ictogenesis. <i>Journal of Neuroinflammation</i> , 2022, 19, 22.	7.2	12
3	Teriflunomide shifts the astrocytic bioenergetic profile from oxidative metabolism to glycolysis and attenuates TNF $\pm$ -induced inflammatory responses. <i>Scientific Reports</i> , 2022, 12, 3049.	3.3	10
4	Molecular Mechanisms in the Genesis of Seizures and Epilepsy Associated With Viral Infection. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, .	2.9	13
5	Leucine Zipper 4 Autoantibody: A Novel Germ Cell Tumor and Paraneoplastic Biomarker. <i>Annals of Neurology</i> , 2021, 89, 1001-1010.	5.3	27
6	Methods for intratumoral microdialysis probe targeting and validation in murine brain tumor models. <i>Journal of Neuroscience Methods</i> , 2021, 363, 109321.	2.5	3
7	Microdialysis and microperfusion electrodes in neurologic disease monitoring. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 52.	5.0	11
8	Citrullinated myelin induces microglial TNF $\pm$ and inhibits endogenous repair in the cuprizone model of demyelination. <i>Journal of Neuroinflammation</i> , 2021, 18, 305.	7.2	9
9	Remyelination-Promoting DNA Aptamer Conjugate Myaptavin-3064 Binds to Adult Oligodendrocytes In Vitro. <i>Pharmaceuticals</i> , 2020, 13, 403.	3.8	3
10	Expanded Clinical Phenotype, Oncological Associations, and Immunopathologic Insights of Paraneoplastic Kelch-like Protein-11 Encephalitis. <i>JAMA Neurology</i> , 2020, 77, 1420.	9.0	109
11	Signatures of cell stress and altered bioenergetics in skin fibroblasts from patients with multiple sclerosis. <i>Aging</i> , 2020, 12, 15134-15156.	3.1	8
12	Systemic evidence of acute seizure-associated elevation in serum neuronal injury biomarker in patients with temporal lobe epilepsy. <i>Acta Epileptologica</i> , 2019, 1, .	0.9	3
13	Functional deficiency in endogenous interleukin $\beta$ 1 receptor antagonist in patients with febrile infection $\beta$ -related epilepsy syndrome. <i>Annals of Neurology</i> , 2019, 85, 526-537.	5.3	79
14	IgM Natural Autoantibodies in Physiology and the Treatment of Disease. <i>Methods in Molecular Biology</i> , 2019, 1904, 53-81.	0.9	19
15	Retrograde interferon $\gamma$ signaling induces major histocompatibility class I expression in human $\beta$ -induced pluripotent stem cell $\beta$ -derived neurons. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 172-185.	3.7	14
16	Fueling the <sc>FIRE</sc>: Hemophagocytic lymphohistiocytosis in febrile infection $\beta$ -related epilepsy syndrome. <i>Epilepsia</i> , 2018, 59, 1753-1763.	5.1	28
17	Pathogenic implications of cerebrospinal fluid barrier pathology in neuromyelitis optica. <i>Acta Neuropathologica</i> , 2017, 133, 597-612.	7.7	53
18	Inflammatory cytokine-induced changes in neural network activity measured by waveform analysis of high-content calcium imaging in murine cortical neurons. <i>Scientific Reports</i> , 2017, 7, 9037.	3.3	33

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19	Neuronal CCL2 expression drives inflammatory monocyte infiltration into the brain during acute virus infection. <i>Journal of Neuroinflammation</i> , 2017, 14, 238.	7.2	43
20	Neuroprotection mediated by inhibition of calpain during acute viral encephalitis. <i>Scientific Reports</i> , 2016, 6, 28699.	3.3	19
21	Neuropilin-1 modulates interferon- $\beta$ -stimulated signaling in brain microvascular endothelial cells. <i>Journal of Cell Science</i> , 2016, 129, 3911-3921.	2.0	32
22	Febrile infection-related epilepsy syndrome treated with anakinra. <i>Annals of Neurology</i> , 2016, 80, 939-945.	5.3	208
23	NF $\kappa$ B signaling drives pro-granulocytic astroglial responses to neuromyelitis optica patient IgG. <i>Journal of Neuroinflammation</i> , 2015, 12, 185.	7.2	27
24	Neuromyelitis optica IgG stimulates an immunological response in rat astrocyte cultures. <i>Glia</i> , 2014, 62, 692-708.	4.9	78
25	Axons are injured by antigen-specific CD8+ T cells through a MHC class I- and granzyme B-dependent mechanism. <i>Neurobiology of Disease</i> , 2013, 59, 194-205.	4.4	41
26	Influenza vaccine and Guillain-Barré syndrome: making informed decisions. <i>Lancet, The</i> , 2013, 381, 1437-1439.	13.7	8
27	Automated identification of multiple seizure-related and interictal epileptiform event types in the EEG of mice. <i>Scientific Reports</i> , 2013, 3, 1483.	3.3	63
28	Hippocampal protection in mice with an attenuated inflammatory monocyte response to acute CNS picornavirus infection. <i>Scientific Reports</i> , 2012, 2, 545.	3.3	42
29	Inflammatory monocytes damage the hippocampus during acute picornavirus infection of the brain. <i>Journal of Neuroinflammation</i> , 2012, 9, 50.	7.2	58
30	Isolation of Brain-infiltrating Leukocytes. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	29
31	The STAT3 beacon: IL-6 recurrently activates STAT 3 from endosomal structures. <i>Experimental Cell Research</i> , 2011, 317, 1955-1969.	2.6	33
32	Therapeutic doses of cranial irradiation induce hippocampus-dependent cognitive deficits in young mice. <i>Journal of Neuro-Oncology</i> , 2011, 105, 191-198.	2.9	42
33	Inflammatory changes in the central nervous system are associated with behavioral impairment in <i>Plasmodium berghei</i> (strain ANKA)-infected mice. <i>Experimental Parasitology</i> , 2010, 125, 271-278.	1.2	43
34	CD8+ T Cells Cause Disability and Axon Loss in a Mouse Model of Multiple Sclerosis. <i>PLoS ONE</i> , 2010, 5, e12478.	2.5	34
35	Demyelinated Axons and Motor Function Are Protected by Genetic Deletion of Perforin in a Mouse Model of Multiple Sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 1037-1048.	1.7	43
36	SUBCUTANEOUS IGF-1 IS NOT BENEFICIAL IN 2-YEAR ALS TRIAL. <i>Neurology</i> , 2009, 73, 1247-1248.	1.1	18

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37	Tumor Necrosis Factor $\alpha$ is Reparative via TNFR1 in the Hippocampus and via TNFR2 in the Striatum after Virus-Induced Encephalitis. <i>Brain Pathology</i> , 2009, 19, 12-26.	4.1	24
38	Preparation of biologically active subcellular fractions using the Balch homogenizer. <i>Analytical Biochemistry</i> , 2009, 394, 117-124.	2.4	9
39	Apoptosis of Hippocampal Pyramidal Neurons Is Virus Independent in a Mouse Model of Acute Neurovirulent Picornavirus Infection. <i>American Journal of Pathology</i> , 2009, 175, 668-684.	3.8	58
40	Functional characterization of mouse spinal cord infiltrating CD8+ lymphocytes. <i>Journal of Neuroimmunology</i> , 2009, 214, 33-42.	2.3	12
41	TRAIL mediates liver injury by the innate immune system in the bile duct-ligated mouse. <i>Hepatology</i> , 2008, 47, 1317-1330.	7.3	82
42	NKG2D contributes to efficient clearance of picornavirus from the acutely infected murine brain. <i>Journal of NeuroVirology</i> , 2008, 14, 261-266.	2.1	10
43	Human HLA-DR Transgenes Protect Mice from Fatal Virus-Induced Encephalomyelitis and Chronic Demyelination. <i>Journal of Virology</i> , 2008, 82, 3369-3380.	3.4	4
44	Aquaporin-4 binding autoantibodies in patients with neuromyelitis optica impair glutamate transport by down-regulating EAAT2. <i>Journal of Experimental Medicine</i> , 2008, 205, 2473-2481.	8.5	330
45	A randomized Phase I study of <i>Atuna racemosa</i> : A potential new anti-MRSA natural product extract. <i>Journal of Ethnopharmacology</i> , 2007, 114, 371-376.	4.1	18
46	Beta-methylamino-alanine (BMAA) injures hippocampal neurons in vivo. <i>NeuroToxicology</i> , 2007, 28, 702-704.	3.0	50
47	A high-throughput 3-parameter flow cytometry-based cell death assay. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 170-173.	1.5	14
48	Absence of perforin expression confers axonal protection despite demyelination. <i>Neurobiology of Disease</i> , 2007, 25, 354-359.	4.4	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. <i>Journal of Neuroimmunology</i> , 2007, 188, 13-21.	2.3	41
50	Role of NKG2D in viral clearance from brain during infection with the Theiler's murine encephalomyelitis virus (TMEV). <i>FASEB Journal</i> , 2007, 21, A1393.	0.5	0
51	Coated Glass and Vicryl Microfibers as Artificial Axons. <i>Cells Tissues Organs</i> , 2006, 183, 180-194.	2.3	25
52	Picornaviruses and cell death. <i>Trends in Microbiology</i> , 2006, 14, 28-36.	7.7	88
53	Activated microglia stimulate transcriptional changes in primary oligodendrocytes via IL-1 $\beta$ . <i>Neurobiology of Disease</i> , 2006, 23, 731-739.	4.4	24
54	Disrupted spatial memory is a consequence of picornavirus infection. <i>Neurobiology of Disease</i> , 2006, 24, 266-273.	4.4	50

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55	Searching historical herbal texts for potential new drugs. <i>BMJ: British Medical Journal</i> , 2006, 333, 1314-1315.	2.3	24
56	STAT4 and STAT6 signaling molecules in a murine model of multiple sclerosis. <i>FASEB Journal</i> , 2006, 20, 343-345.	0.5	13
57	Induction of a gene expression program in dendritic cells with a cross-linking IgM antibody to the co-stimulatory molecule B7-DC. <i>FASEB Journal</i> , 2006, 20, 2408-2410.	0.5	15
58	The NKG2D ligand MULT1 is upregulated in the brain following infection with Theiler's murine encephalomyelitis virus. <i>FASEB Journal</i> , 2006, 20, LB24.	0.5	0
59	Long-distance retrograde neurotrophic signaling. <i>Current Opinion in Neurobiology</i> , 2005, 15, 40-48.	4.2	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. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 571-587.	2.2	61
63	Trafficking the NGF signal: implications for normal and degenerating neurons. <i>Progress in Brain Research</i> , 2004, 146, 1-23.	1.4	41
64	Signaling endosome hypothesis: A cellular mechanism for long distance communication. <i>Journal of Neurobiology</i> , 2004, 58, 207-216.	3.6	179
65	Antiapoptotic signaling by a remyelination-promoting human antimyelin antibody. <i>Neurobiology of Disease</i> , 2004, 15, 120-131.	4.4	60
66	Differences in the surface binding and endocytosis of neurotrophins by p75NTR. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 292-307.	2.2	21
67	A Cbl:clathrin complex involved in NGF signaling for neurite outgrowth. <i>Neuroscience Research Communications</i> , 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. <i>Neuroscience Letters</i> , 2003, 351, 41-45.	2.1	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. <i>Journal of Virology</i> , 2003, 77, 12252-12265.	3.4	80
70	Interleukin-6 Protects Anterior Horn Neurons from Lethal Virus-Induced Injury. <i>Journal of Neuroscience</i> , 2003, 23, 481-492.	3.6	67
71	Human Monoclonal IgM Antibody Promotes CNS Myelin Repair Independent of Fc Function. <i>Brain Pathology</i> , 2003, 13, 608-616.	4.1	28
72	Growth factor treatment of demyelinating disease: at last, a leap into the light. <i>Trends in Immunology</i> , 2002, 23, 512-516.	6.8	40

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73	NGF Signaling from Clathrin-Coated Vesicles. <i>Neuron</i> , 2001, 32, 801-814.	8.1	314
74	Nerve Growth Factor Signaling, Neuroprotection, and Neural Repair. <i>Annual Review of Neuroscience</i> , 2001, 24, 1217-1281.	10.7	1,146
75	Failed retrograde transport of NGF in a mouse model of Down's syndrome: Reversal of cholinergic neurodegenerative phenotypes following NGF infusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10439-10444.	7.1	320
76	NGF Signals through TrkA to Increase Clathrin at the Plasma Membrane and Enhance Clathrin-Mediated Membrane Trafficking. <i>Journal of Neuroscience</i> , 2000, 20, 7325-7333.	3.6	119
77	Nerve growth factor and the neurotrophic factor hypothesis. <i>Brain and Development</i> , 1996, 18, 362-368.	1.1	108
78	Proteolipid Protein Gene Expression in Demyelination and Remyelination of the Central Nervous System: A Model for Multiple Sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 1994, 53, 136-143.	1.7	41