

Trevor Owens

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.

110
papers

6,660
citations

45
h-index

80
g-index

120
ext. papers

7,396
ext. citations

6.6
avg, IF

5.79
L-index

#	Paper	IF	Citations
110	Interferon-gamma confers resistance to experimental allergic encephalomyelitis. <i>European Journal of Immunology</i> , 1996 , 26, 1641-6	6.1	416
109	Chemokine expression by glial cells directs leukocytes to sites of axonal injury in the CNS. <i>Journal of Neuroscience</i> , 2003 , 23, 7922-30	6.6	388
108	IFN-gamma shapes immune invasion of the central nervous system via regulation of chemokines. <i>Journal of Immunology</i> , 2000 , 164, 2759-68	5.3	270
107	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience Research</i> , 1997 , 50, 345-53	4.4	251
106	Perivascular spaces and the two steps to neuroinflammation. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 1113-21	3.1	228
105	A novel microglial subset plays a key role in myelinogenesis in developing brain. <i>EMBO Journal</i> , 2017 , 36, 3292-3308	13	219
104	Microglial recruitment, activation, and proliferation in response to primary demyelination. <i>American Journal of Pathology</i> , 2007 , 170, 1713-24	5.8	178
103	Toll-like receptor 2 signaling in response to brain injury: an innate bridge to neuroinflammation. <i>Journal of Neuroscience</i> , 2006 , 26, 12826-37	6.6	163
102	Genetic models for CNS inflammation. <i>Nature Medicine</i> , 2001 , 7, 161-6	50.5	151
101	Inflammatory cytokines in the brain: does the CNS shape immune responses?. <i>Trends in Immunology</i> , 1994 , 15, 566-71		146
100	Induction of experimental autoimmune encephalomyelitis in C57BL/6 mice deficient in either the chemokine macrophage inflammatory protein-1alpha or its CCR5 receptor. <i>European Journal of Immunology</i> , 2000 , 30, 1410-5	6.1	144
99	Astrogliosis in the neonatal and adult murine brain post-trauma: elevation of inflammatory cytokines and the lack of requirement for endogenous interferon-gamma. <i>Journal of Neuroscience</i> , 1997 , 17, 3664-74	6.6	139
98	IFN-gamma enhances neurogenesis in wild-type mice and in a mouse model of Alzheimer's disease. <i>FASEB Journal</i> , 2008 , 22, 2843-52	0.9	132
97	Increased severity of experimental autoimmune encephalomyelitis, chronic macrophage/microglial reactivity, and demyelination in transgenic mice producing tumor necrosis factor-alpha in the central nervous system. <i>European Journal of Immunology</i> , 1997 , 27, 905-13	6.1	129
96	The Immunology of Multiple Sclerosis and its Animal Model, Experimental Allergic Encephalomyelitis. <i>Neurologic Clinics</i> , 1995 , 13, 51-73	4.5	127
95	Abeta-induced meningoencephalitis is IFN-gamma-dependent and is associated with T cell-dependent clearance of Abeta in a mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5048-53	11.5	123
94	Key metalloproteinases are expressed by specific cell types in experimental autoimmune encephalomyelitis. <i>Journal of Immunology</i> , 2004 , 173, 5209-18	5.3	122

93	TLR3 deficiency renders astrocytes permissive to herpes simplex virus infection and facilitates establishment of CNS infection in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 1368-76	15.9	120
92	Proliferating resident microglia express the stem cell antigen CD34 in response to acute neural injury. <i>Glia</i> , 2005 , 50, 121-31	9	109
91	What is microglia neurotoxicity (Not)? <i>Glia</i> , 2014 , 62, 841-54	9	108
90	Cytokine and chemokine inter-regulation in the inflamed or injured CNS. <i>Brain Research Reviews</i> , 2005 , 48, 178-84		104
89	Statin therapy inhibits remyelination in the central nervous system. <i>American Journal of Pathology</i> , 2009 , 174, 1880-90	5.8	99
88	The central nervous system environment controls effector CD4+ T cell cytokine profile in experimental allergic encephalomyelitis. <i>European Journal of Immunology</i> , 1997 , 27, 2840-7	6.1	97
87	Microglia are required for astroglial Toll-like receptor 4 response and for optimal TLR2 and TLR3 response. <i>Glia</i> , 2012 , 60, 630-8	9	91
86	Interferon-gamma in progression to chronic demyelination and neurological deficit following acute EAE. <i>Molecular and Cellular Neurosciences</i> , 1998 , 12, 376-89	4.8	90
85	Glutamate metabolism is down-regulated in astrocytes during experimental allergic encephalomyelitis. <i>Glia</i> , 1997 , 20, 79-85	9	86
84	Direct demonstration of the infiltration of murine central nervous system by Pgp-1/CD44high CD45RB(low) CD4+ T cells that induce experimental allergic encephalomyelitis. <i>Journal of Neuroimmunology</i> , 1992 , 40, 57-69	3.5	86
83	Comparison of microglia and infiltrating CD11c+ cells as antigen presenting cells for T cell proliferation and cytokine response. <i>Journal of Neuroinflammation</i> , 2014 , 11, 57	10.1	85
82	Naive T lymphocytes traffic to inflamed central nervous system, but require antigen recognition for activation. <i>European Journal of Immunology</i> , 2000 , 30, 1002-9	6.1	85
81	Inhibition of reactive astrocytosis in established experimental autoimmune encephalomyelitis favors infiltration by myeloid cells over T cells and enhances severity of disease. <i>Glia</i> , 2011 , 59, 166-76	9	78
80	Nogo-A is a reliable oligodendroglial marker in adult human and mouse CNS and in demyelinated lesions. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007 , 66, 238-46	3.1	75
79	Interferons in the central nervous system: a few instruments play many tunes. <i>Glia</i> , 2014 , 62, 339-55	9	73
78	Metalloproteinases control brain inflammation induced by pertussis toxin in mice overexpressing the chemokine CCL2 in the central nervous system. <i>Journal of Immunology</i> , 2006 , 177, 7242-9	5.3	71
77	Neutrophils that infiltrate the central nervous system regulate T cell responses. <i>Journal of Immunology</i> , 2005 , 174, 5124-31	5.3	70
76	IFNgamma enhances microglial reactions to hippocampal axonal degeneration. <i>Journal of Neuroscience</i> , 2000 , 20, 3612-21	6.6	67

75	Chemokine expression in GKO mice (lacking interferon-gamma) with experimental autoimmune encephalomyelitis. <i>Journal of NeuroVirology</i> , 1999 , 5, 95-101	3.9	67
74	Injury-induced type I IFN signaling regulates inflammatory responses in the central nervous system. <i>Journal of Immunology</i> , 2010 , 185, 1258-64	5.3	66
73	NF-kappaB-driven STAT2 and CCL2 expression in astrocytes in response to brain injury. <i>Journal of Immunology</i> , 2008 , 181, 7284-91	5.3	62
72	The enigma of multiple sclerosis: inflammation and neurodegeneration cause heterogeneous dysfunction and damage. <i>Current Opinion in Neurology</i> , 2003 , 16, 259-265	7.1	60
71	A role for interferon-gamma in focal cerebral ischemia in mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004 , 63, 942-55	3.1	56
70	Continued administration of ciliary neurotrophic factor protects mice from inflammatory pathology in experimental autoimmune encephalomyelitis. <i>American Journal of Pathology</i> , 2006 , 169, 584-98	5.8	54
69	Signaling through MyD88 regulates leukocyte recruitment after brain injury. <i>Journal of Immunology</i> , 2008 , 181, 6481-90	5.3	52
68	Reactive microgliosis engages distinct responses by microglial subpopulations after minor central nervous system injury. <i>Journal of Neuroscience Research</i> , 2005 , 82, 507-14	4.4	51
67	Effectors of Th1 and Th17 cells act on astrocytes and augment their neuroinflammatory properties. <i>Journal of Neuroinflammation</i> , 2017 , 14, 204	10.1	47
66	The enigma of multiple sclerosis: inflammation and neurodegeneration cause heterogeneous dysfunction and damage. <i>Current Opinion in Neurology</i> , 2003 , 16, 259-65	7.1	46
65	Induction of endogenous Type I interferon within the central nervous system plays a protective role in experimental autoimmune encephalomyelitis. <i>Acta Neuropathologica</i> , 2015 , 130, 107-18	14.3	45
64	IFN-gamma-induced chemokines synergize with pertussis toxin to promote T cell entry to the central nervous system. <i>Journal of Immunology</i> , 2007 , 178, 8175-82	5.3	43
63	CD8+ T cells in inflammatory demyelinating disease. <i>Journal of Neuroimmunology</i> , 2007 , 191, 79-85	3.5	42
62	Constitutive expression of a costimulatory ligand on antigen-presenting cells in the nervous system drives demyelinating disease. <i>FASEB Journal</i> , 2003 , 17, 1910-2	0.9	42
61	Pathologic and Protective Roles for Microglial Subsets and Bone Marrow- and Blood-Derived Myeloid Cells in Central Nervous System Inflammation. <i>Frontiers in Immunology</i> , 2015 , 6, 463	8.4	40
60	Innate immune responses in central nervous system inflammation. <i>FEBS Letters</i> , 2011 , 585, 3806-12	3.8	39
59	Toll-like receptors in neurodegeneration. <i>Current Topics in Microbiology and Immunology</i> , 2009 , 336, 105-20	3.8	38
58	A pathogenic role for CD8+ T cells in a spontaneous model of demyelinating disease. <i>Journal of Immunology</i> , 2006 , 177, 2403-11	5.3	36

57	Immune regulation and CNS autoimmune disease. <i>Journal of Neuroimmunology</i> , 1999 , 100, 181-9	3.5	35
56	Loss rather than downregulation of CD4+ T cells as a mechanism for remission from experimental allergic encephalomyelitis. <i>Journal of Neuroimmunology</i> , 1993 , 44, 193-8	3.5	35
55	A role for adhesion molecules in contact-dependent T help for B cells. <i>European Journal of Immunology</i> , 1991 , 21, 979-83	6.1	34
54	Inflammation in the central nervous system and Th17 responses are inhibited by IFN-gamma-Induced IL-18 binding protein. <i>Journal of Immunology</i> , 2010 , 185, 2458-66	5.3	33
53	Complement-dependent pathogenicity of brain-specific antibodies in cerebrospinal fluid. <i>Journal of Neuroimmunology</i> , 2013 , 254, 76-82	3.5	32
52	CSF1R Stimulation Promotes Increased Neuroprotection by CD11c+ Microglia in EAE. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 523	6.1	31
51	Protective Microglial Subset in Development, Aging, and Disease: Lessons From Transcriptomic Studies. <i>Frontiers in Immunology</i> , 2020 , 11, 430	8.4	31
50	Cerebrospinal fluid aquaporin-4-immunoglobulin G disrupts blood brain barrier. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 857-63	5.3	29
49	Chemokine receptor expression by inflammatory T cells in EAE. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 187	6.1	28
48	Interferon regulatory factor-7 modulates experimental autoimmune encephalomyelitis in mice. <i>Journal of Neuroinflammation</i> , 2011 , 8, 181	10.1	28
47	Toll-like receptors in brain development and homeostasis. <i>Sciences STKE: Signal Transduction Knowledge Environment</i> , 2007 , 2007, pe47		28
46	Experimental Demyelination and Axonal Loss Are Reduced in MicroRNA-146a Deficient Mice. <i>Frontiers in Immunology</i> , 2018 , 9, 490	8.4	27
45	Enhanced microglial clearance of myelin debris in T cell-infiltrated central nervous system. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009 , 68, 845-56	3.1	26
44	Constitutive activation of extracellular signal-regulated kinase predisposes diffuse large B-cell lymphoma cell lines to CD40-mediated cell death. <i>Cancer Research</i> , 2006 , 66, 3550-7	10.1	26
43	Elevated interferon gamma expression in the central nervous system of tumour necrosis factor receptor 1-deficient mice with experimental autoimmune encephalomyelitis. <i>Immunology</i> , 2006 , 118, 527-38	7.8	26
42	Neuromyelitis optica-like pathology is dependent on type I interferon response. <i>Experimental Neurology</i> , 2013 , 247, 744-7	5.7	22
41	Stimulation of adult oligodendrogenesis by myelin-specific T cells. <i>American Journal of Pathology</i> , 2011 , 179, 2028-41	5.8	22
40	X-linked inhibitor of apoptosis regulates T cell effector function. <i>Journal of Immunology</i> , 2007 , 179, 7553-60	5.6	22

39	Blood-brain barrier disruption in CCL2 transgenic mice during pertussis toxin-induced brain inflammation. <i>Fluids and Barriers of the CNS</i> , 2012 , 9, 10	7	20
38	Downregulation of membrane type-matrix metalloproteinases in the inflamed or injured central nervous system. <i>Journal of Neuroinflammation</i> , 2007 , 4, 24	10.1	19
37	Identification of new therapeutic targets for prevention of CNS inflammation. <i>Expert Opinion on Therapeutic Targets</i> , 2002 , 6, 203-15	6.4	18
36	Co-stimulation by anti-immunoglobulin is required for B cell activation by CD40Llow T cells. <i>European Journal of Immunology</i> , 1994 , 24, 2993-9	6.1	18
35	Macrophage-independent T cell infiltration to the site of injury-induced brain inflammation. <i>Journal of Neuroimmunology</i> , 2008 , 203, 64-72	3.5	17
34	Chemokines in experimental autoimmune encephalomyelitis and multiple sclerosis. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 520, 120-32	3.6	17
33	Immunotherapy for multiple sclerosis: from theory to practice. <i>Nature Medicine</i> , 1996 , 2, 1074-5	50.5	16
32	Thymic CCL2 influences induction of T-cell tolerance. <i>Journal of Autoimmunity</i> , 2014 , 55, 73-85	15.5	15
31	Bone marrow-derived versus parenchymal sources of inducible nitric oxide synthase in experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2004 , 150, 70-9	3.5	14
30	CCL2 recruits T cells into the brain in a CCR2-independent manner. <i>Apmis</i> , 2017 , 125, 945-956	3.4	13
29	Surfactant protein d deficiency in mice is associated with hyperphagia, altered fat deposition, insulin resistance, and increased basal endotoxemia. <i>PLoS ONE</i> , 2012 , 7, e35066	3.7	12
28	Diffusion Kurtosis Imaging maps neural damage in the EAE model of multiple sclerosis. <i>NeuroImage</i> , 2020 , 208, 116406	7.9	12
27	Influence of type I IFN signaling on anti-MOG antibody-mediated demyelination. <i>Journal of Neuroinflammation</i> , 2017 , 14, 127	10.1	11
26	Expression of astrocytic type 2 angiotensin receptor in central nervous system inflammation correlates with blood-brain barrier breakdown. <i>Journal of Molecular Neuroscience</i> , 2010 , 42, 89-98	3.3	11
25	Toll-like receptors on astrocytes: patterning for immunity. <i>Journal of Neuroimmunology</i> , 2005 , 159, 1-2	3.5	9
24	CD40-mediated apoptosis in murine B-lymphoma lines containing mutated p53. <i>Experimental Cell Research</i> , 2002 , 280, 201-11	4.2	9
23	MOG extracellular domain (p1-125) triggers elevated frequency of CXCR3+ CD4+ Th1 cells in the CNS of mice and induces greater incidence of severe EAE. <i>Multiple Sclerosis Journal</i> , 2014 , 20, 1312-21	5	8
22	Protective roles for myeloid cells in neuroinflammation. <i>Scandinavian Journal of Immunology</i> , 2020 , 92, e12963	3.4	8

21	Vav-1 expression correlates with NFB activation and CD40-mediated cell death in diffuse large B-cell lymphoma cell lines. <i>Hematological Oncology</i> , 2010 , 28, 142-50	1.3	7
20	Type I interferon-activated microglia are critical for neuromyelitis optica pathology. <i>Glia</i> , 2021 , 69, 943-953		7
19	Absence of miRNA-146a Differentially Alters Microglia Function and Proteome. <i>Frontiers in Immunology</i> , 2020 , 11, 1110	8.4	6
18	The murine gammaherpesvirus-68 chemokine-binding protein M3 inhibits experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2010 , 224, 45-50	3.5	6
17	Immune response induction in the central nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2002 , 7, d427-38	2.8	6
16	Angiotensin AT2 receptor-induced interleukin-10 attenuates neuromyelitis optica spectrum disorder-like pathology. <i>Multiple Sclerosis Journal</i> , 2020 , 26, 1187-1196	5	6
15	Selective localization of IgG from cerebrospinal fluid to brain parenchyma. <i>Journal of Neuroinflammation</i> , 2018 , 15, 110	10.1	5
14	The chemokine receptor CCR2 maintains plasmacytoid dendritic cell homeostasis. <i>Immunology Letters</i> , 2017 , 192, 72-78	4.1	5
13	Detection and cellular localization of phospho-STAT2 in the central nervous system by immunohistochemical staining. <i>Methods in Molecular Biology</i> , 2013 , 967, 179-88	1.4	5
12	Elevated interferon-gamma in CNS inflammatory disease: a potential complication for bone marrow reconstitution in MS. <i>Journal of Neuroimmunology</i> , 2000 , 108, 40-4	3.5	5
11	Hypersensitivity Responses in the Central Nervous System. <i>Frontiers in Immunology</i> , 2015 , 6, 517	8.4	4
10	Innate signaling within the central nervous system recruits protective neutrophils. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 2	7.3	4
9	Microglia-Secreted Factors Enhance Dopaminergic Differentiation of Tissue- and iPSC-Derived Human Neural Stem Cells. <i>Stem Cell Reports</i> , 2021 , 16, 281-294	8	4
8	Central Nervous System-Endogenous TLR7 and TLR9 Induce Different Immune Responses and Effects on Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Neuroscience</i> , 2021 , 15, 685645	5.1	2
7	Innate Signaling in the CNS Prevents Demyelination in a Focal EAE Model. <i>Frontiers in Neuroscience</i> , 2021 , 15, 682451	5.1	1
6	An Experimental Model of Neuromyelitis Optica Spectrum Disorder-Optic Neuritis: Insights Into Disease Mechanisms. <i>Frontiers in Neurology</i> , 2021 , 12, 703249	4.1	1
5	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis 1997 , 50, 345		1
4	The protective effect of Angiotensin AT2-receptor stimulation in Neuromyelitis optica spectrum disorder is independent of astrocyte-derived BDNF. <i>Multiple Sclerosis and Related Disorders</i> , 2021 , 53, 103033	4	0

- 3 Mitochondria-A target for attenuation of astrocyte pathology. *Journal of Neuroimmunology*, **2021**, 358, 577657 3.5 ○
- 2 Cytokines in CNS Inflammation **2005**, 113-136
- 1 Microglia Role in Immunity **2016**, 302-308