# Trevor Owens

## List of Publications by Year in descending order

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|---|---|---|---|
| 118 papers | 7,980 citations | 41344 49 h-index | 51608 86 g-index |
| 120 all docs | 120 docs citations | 120 times ranked | 8859 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Type I interferonâ€activated microglia are critical for neuromyelitis optica pathology. Glia, 2021, 69, 943-953. | 4.9 | 11 |
| 2 | Microglia-Secreted Factors Enhance Dopaminergic Differentiation of Tissue- and iPSC-Derived Human Neural Stem Cells. Stem Cell Reports, 2021, 16, 281-294. | 4.8 | 23 |
| 3 | Innate Signaling in the CNS Prevents Demyelination in a Focal EAE Model. Frontiers in Neuroscience, 2021, 15, 682451. | 2.8 | 5 |
| 4 | Central Nervous System-Endogenous TLR7 and TLR9 Induce Different Immune Responses and Effects on Experimental Autoimmune Encephalomyelitis. Frontiers in Neuroscience, 2021, 15, 685645. | 2.8 | 9 |
| 5 | An Experimental Model of Neuromyelitis Optica Spectrum Disorderâ€“Optic Neuritis: Insights Into Disease Mechanisms. Frontiers in Neurology, 2021, 12, 703249. | 2.4 | 6 |
| 6 | The protective effect of Angiotensin AT2-receptor stimulation in Neuromyelitis optica spectrum disorder is independent of astrocyte-derived BDNF. Multiple Sclerosis and Related Disorders, 2021, 53, 103033. | 2.0 | 1 |
| 7 | Mitochondriaâ€“A target for attenuation of astrocyte pathology. Journal of Neuroimmunology, 2021, 358, 577657. | 2.3 | 1 |
| 8 | Angiotensin AT2 receptorâ€“induced interleukin-10 attenuates neuromyelitis optica spectrum disorderâ€“like pathology. Multiple Sclerosis Journal, 2020, 26, 1187-1196. | 3.0 | 9 |
| 9 | Innate signaling within the central nervous system recruits protective neutrophils. Acta Neuropathologica Communications, 2020, 8, 2. | 5.2 | 13 |
| 10 | Diffusion Kurtosis Imaging maps neural damage in the EAE model of multiple sclerosis. NeuroImage, 2020, 208, 116406. | 4.2 | 19 |
| 11 | Protective roles for myeloid cells in neuroinflammation. Scandinavian Journal of Immunology, 2020, 92, e12963. | 2.7 | 15 |
| 12 | Absence of miRNA-146a Differentially Alters Microglia Function and Proteome. Frontiers in Immunology, 2020, 11, 1110. | 4.8 | 20 |
| 13 | Protective Microglial Subset in Development, Aging, and Disease: Lessons From Transcriptomic Studies. Frontiers in Immunology, 2020, 11, 430. | 4.8 | 77 |
| 14 | Selective localization of IgG from cerebrospinal fluid to brain parenchyma. Journal of Neuroinflammation, 2018, 15, 110. | 7.2 | 6 |
| 15 | Experimental Demyelination and Axonal Loss Are Reduced in MicroRNA-146a Deficient Mice. Frontiers in Immunology, 2018, 9, 490. | 4.8 | 43 |
| 16 | CSF1R Stimulation Promotes Increased Neuroprotection by CD11c+ Microglia in EAE. Frontiers in Cellular Neuroscience, 2018, 12, 523. | 3.7 | 53 |
| 17 | A novel microglial subset plays a key role in myelinogenesis in developing brain. EMBO Journal, 2017, 36, 3292-3308. | 7.8 | 375 |
| 18 | <scp>CCL</scp>2 recruits T cells into the brain in a <scp>CCR</scp>2â€independent manner. Apmis, 2017, 125, 945-956. | 2.0 | 32 |

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|---|---|---|---|
| 19 | The chemokine receptor CCR2 maintains plasmacytoid dendritic cell homeostasis. Immunology Letters, 2017, 192, 72-78. | 2.5 | 7 |
| 20 | Influence of type I IFN signaling on anti-MOG antibody-mediated demyelination. Journal of Neuroinflammation, 2017, 14, 127. | 7.2 | 15 |
| 21 | Effectors of Th1 and Th17 cells act on astrocytes and augment their neuroinflammatory properties. Journal of Neuroinflammation, 2017, 14, 204. | 7.2 | 88 |
| 22 | Microglia â€“ Role in Immunity. , 2016, , 302-308. | | 0 |
| 23 | Pathologic and Protective Roles for Microglial Subsets and Bone Marrow- and Blood-Derived Myeloid Cells in Central Nervous System Inflammation. Frontiers in Immunology, 2015, 6, 463. | 4.8 | 69 |
| 24 | Hypersensitivity Responses in the Central Nervous System. Frontiers in Immunology, 2015, 6, 517. | 4.8 | 7 |
| 25 | Cerebrospinal fluid aquaporinâ€4â€immunoglobulin G disrupts blood brain barrier. Annals of Clinical and Translational Neurology, 2015, 2, 857-863. | 3.7 | 37 |
| 26 | Induction of endogenous Type I interferon within the central nervous system plays a protective role in experimental autoimmune encephalomyelitis. Acta Neuropathologica, 2015, 130, 107-118. | 7.7 | 61 |
| 27 | Chemokine receptor expression by inflammatory T cells in EAE. Frontiers in Cellular Neuroscience, 2014, 8, 187. | 3.7 | 34 |
| 28 | Interferons in the central nervous system: A few instruments play many tunes. Glia, 2014, 62, 339-355. | 4.9 | 99 |
| 29 | What is microglia neurotoxicity (Not)?. Glia, 2014, 62, 841-854. | 4.9 | 127 |
| 30 | Thymic CCL2 influences induction of T-cell tolerance. Journal of Autoimmunity, 2014, 55, 73-85. | 6.5 | 28 |
| 31 | Influence of effector molecules released by Th1 and Th17 cells on glial cells. Journal of Neuroimmunology, 2014, 275, 144. | 2.3 | 0 |
| 32 | IGF1 producing CD11c+ microglia emerge during postnatal neurodevelopment. Journal of Neuroimmunology, 2014, 275, 93. | 2.3 | 0 |
| 33 | Mechanisms underlying induction of antibody-mediated demyelination in muliple sclerosis. Journal of Neuroimmunology, 2014, 275, 55-56. | 2.3 | 0 |
| 34 | CCL2 chemokine in T cell tolerance and protection against experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2014, 275, 197. | 2.3 | 0 |
| 35 | Induction of type I interferon in the central nervous system plays a protective role in EAE. Journal of Neuroimmunology, 2014, 275, 86-87. | 2.3 | 0 |
| 36 | The complex immunology of multiple sclerosis. Multiple Sclerosis Journal, 2014, 20, 1023-1024. | 3.0 | 2 |

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| 37 | Comparison of microglia and infiltrating CD11c+ cells as antigen presenting cells for T cell proliferation and cytokine response. Journal of Neuroinflammation, 2014, 11, 57. | 7.2 | 122 |
| 38 | MOG extracellular domain (p1â€“125) triggers elevated frequency of CXCR3+ CD4+ Th1 cells in the CNS of mice and induces greater incidence of severe EAE. Multiple Sclerosis Journal, 2014, 20, 1312-1321. | 3.0 | 11 |
| 39 | Neuromyelitis optica-like pathology is dependent on type I interferon response. Experimental Neurology, 2013, 247, 744-747. | 4.1 | 23 |
| 40 | Complement-dependent pathogenicity of brain-specific antibodies in cerebrospinal fluid. Journal of Neuroimmunology, 2013, 254, 76-82. | 2.3 | 38 |
| 41 | Detection and Cellular Localization of Phospho-STAT2 in the Central Nervous System by Immunohistochemical Staining. Methods in Molecular Biology, 2013, 967, 179-188. | 0.9 | 5 |
| 42 | Bloodâ€“brain barrier disruption in CCL2 transgenic mice during pertussis toxin-induced brain inflammation. Fluids and Barriers of the CNS, 2012, 9, 10. | 5.0 | 28 |
| 43 | Surfactant Protein D Deficiency in Mice Is Associated with Hyperphagia, Altered Fat Deposition, Insulin Resistance, and Increased Basal Endotoxemia. PLoS ONE, 2012, 7, e35066. | 2.5 | 14 |
| 44 | TLR3 deficiency renders astrocytes permissive to herpes simplex virus infection and facilitates establishment of CNS infection in mice. Journal of Clinical Investigation, 2012, 122, 1368-1376. | 8.2 | 141 |
| 45 | Microglia are required for astroglial tollâ€like receptor 4 response and for optimal TLR2 and TLR3 response. Glia, 2012, 60, 630-638. | 4.9 | 105 |
| 46 | Stimulation of Adult Oligodendrogenesis by Myelin-Specific T Cells. American Journal of Pathology, 2011, 179, 2028-2041. | 3.8 | 29 |
| 47 | Innate immune responses in central nervous system inflammation. FEBS Letters, 2011, 585, 3806-3812. | 2.8 | 47 |
| 48 | Interferon regulatory factor-7 modulates experimental autoimmune encephalomyelitis in mice. Journal of Neuroinflammation, 2011, 8, 181. | 7.2 | 37 |
| 49 | Inhibition of reactive astrocytosis in established experimental autoimmune encephalomyelitis favors infiltration by myeloid cells over T cells and enhances severity of disease. Glia, 2011, 59, 166-176. | 4.9 | 94 |
| 50 | Expression of Astrocytic Type 2 Angiotensin Receptor in Central Nervous System Inflammation Correlates With Bloodâ€“Brain Barrier Breakdown. Journal of Molecular Neuroscience, 2010, 42, 89-98. | 2.3 | 12 |
| 51 | The murine gammaherpesvirus-68 chemokine-binding protein M3 inhibits experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2010, 224, 45-50. | 2.3 | 12 |
| 52 | Vavâ€1 expression correlates with NFÎºB activation and CD40â€mediated cell death in diffuse large Bâ€cell lymphoma cell lines. Hematological Oncology, 2010, 28, 142-150. | 1.7 | 11 |
| 53 | Injury-Induced Type I IFN Signaling Regulates Inflammatory Responses in the Central Nervous System. Journal of Immunology, 2010, 185, 1258-1264. | 0.8 | 76 |
| 54 | Inflammation in the Central Nervous System and Th17 Responses Are Inhibited by IFN-Î³â€“Induced IL-18 Binding Protein. Journal of Immunology, 2010, 185, 2458-2466. | 0.8 | 36 |

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|---|---|---|---|
| 55 | Enhanced Microglial Clearance of Myelin Debris in T Cell-Infiltrated Central Nervous System. Journal of Neuropathology and Experimental Neurology, 2009, 68, 845-856. | 1.7 | 32 |
| 56 | Statin Therapy Inhibits Remyelination in the Central Nervous System. American Journal of Pathology, 2009, 174, 1880-1890. | 3.8 | 118 |
| 57 | Toll-Like Receptors in Neurodegeneration. Current Topics in Microbiology and Immunology, 2009, 336, 105-120. | 1.1 | 48 |
| 58 | Macrophage-independent T cell infiltration to the site of injury-induced brain inflammation. Journal of Neuroimmunology, 2008, 203, 64-72. | 2.3 | 18 |
| 59 | IFNâ€Î³ enhances neurogenesis in wildâ€type mice and in a mouse model of Alzheimer's disease. FASEB Journal, 2008, 22, 2843-2852. | 0.5 | 153 |
| 60 | Signaling through MyD88 Regulates Leukocyte Recruitment after Brain Injury. Journal of Immunology, 2008, 181, 6481-6490. | 0.8 | 55 |
| 61 | Perivascular Spaces and the Two Steps to Neuroinflammation. Journal of Neuropathology and Experimental Neurology, 2008, 67, 1113-1121. | 1.7 | 295 |
| 62 | NF-ÎºB-Driven STAT2 and CCL2 Expression in Astrocytes in Response to Brain Injury. Journal of Immunology, 2008, 181, 7284-7291. | 0.8 | 68 |
| 63 | Chemokines and Autoimmune Demyelination. , 2008, , 175-201. | | 0 |
| 64 | X-linked Inhibitor of Apoptosis Regulates T Cell Effector Function. Journal of Immunology, 2007, 179, 7553-7560. | 0.8 | 25 |
| 65 | Toll-Like Receptors in Brain Development and Homeostasis. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pe47. | 3.9 | 34 |
| 66 | IFN-Î³-Induced Chemokines Synergize with Pertussis Toxin to Promote T Cell Entry to the Central Nervous System. Journal of Immunology, 2007, 178, 8175-8182. | 0.8 | 54 |
| 67 | Nogo-A is a Reliable Oligodendroglial Marker in Adult Human and Mouse CNS and in Demyelinated Lesions. Journal of Neuropathology and Experimental Neurology, 2007, 66, 238-246. | 1.7 | 87 |
| 68 | CD8+ T cells in inflammatory demyelinating disease. Journal of Neuroimmunology, 2007, 191, 79-85. | 2.3 | 43 |
| 69 | Microglial Recruitment, Activation, and Proliferation in Response to Primary Demyelination. American Journal of Pathology, 2007, 170, 1713-1724. | 3.8 | 213 |
| 70 | Downregulation of membrane type-matrix metalloproteinases in the inflamed or injured central nervous system. Journal of Neuroinflammation, 2007, 4, 24. | 7.2 | 20 |
| 71 | Continued Administration of Ciliary Neurotrophic Factor Protects Mice from Inflammatory Pathology in Experimental Autoimmune Encephalomyelitis. American Journal of Pathology, 2006, 169, 584-598. | 3.8 | 65 |
| 72 | Elevated interferon gamma expression in the central nervous system of tumour necrosis factor receptor 1-deficient mice with experimental autoimmune encephalomyelitis. Immunology, 2006, 118, 060616085813001-???. | 4.4 | 27 |

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| 73 | A Pathogenic Role for CD8+ T Cells in a Spontaneous Model of Demyelinating Disease. Journal of Immunology, 2006, 177, 2403-2411. | 0.8 | 41 |
| 74 | Constitutive Activation of Extracellular Signal-Regulated Kinase Predisposes Diffuse Large B-Cell Lymphoma Cell Lines to CD40-Mediated Cell Death. Cancer Research, 2006, 66, 3550-3557. | 0.9 | 30 |
| 75 | Metalloproteinases Control Brain Inflammation Induced by Pertussis Toxin in Mice Overexpressing the Chemokine CCL2 in the Central Nervous System. Journal of Immunology, 2006, 177, 7242-7249. | 0.8 | 81 |
| 76 | Toll-Like Receptor 2 Signaling in Response to Brain Injury: An Innate Bridge to Neuroinflammation. Journal of Neuroscience, 2006, 26, 12826-12837. | 3.6 | 195 |
| 77 | AÎ²-induced meningoencephalitis is IFN-Î³-dependent and is associated with T cell-dependent clearance of AÎ² in a mouse model of Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5048-5053. | 7.1 | 147 |
| 78 | Toll-like receptors on astrocytes: patterning for immunity. Journal of Neuroimmunology, 2005, 159, 1-2. | 2.3 | 11 |
| 79 | Proliferating resident microglia express the stem cell antigen CD34 in response to acute neural injury. Glia, 2005, 50, 121-131. | 4.9 | 124 |
| 80 | Reactive microgliosis engages distinct responses by microglial subpopulations after minor central nervous system injury. Journal of Neuroscience Research, 2005, 82, 507-514. | 2.9 | 53 |
| 81 | Neutrophils That Infiltrate the Central Nervous System Regulate T Cell Responses. Journal of Immunology, 2005, 174, 5124-5131. | 0.8 | 80 |
| 82 | Cytokine and chemokine inter-regulation in the inflamed or injured CNS. Brain Research Reviews, 2005, 48, 178-184. | 9.0 | 117 |
| 83 | Cytokines in CNS Inflammation. , 2005, , 113-136. | | 0 |
| 84 | Key Metalloproteinases Are Expressed by Specific Cell Types in Experimental Autoimmune Encephalomyelitis. Journal of Immunology, 2004, 173, 5209-5218. | 0.8 | 126 |
| 85 | A Role for Interferon-Gamma in Focal Cerebral Ischemia in Mice. Journal of Neuropathology and Experimental Neurology, 2004, 63, 942-955. | 1.7 | 65 |
| 86 | Bone marrow-derived versus parenchymal sources of inducible nitric oxide synthase in experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2004, 150, 70-79. | 2.3 | 16 |
| 87 | Constitutive expression of a costimulatory ligand on antigenâ€presenting cells in the nervous system drives demyelinating disease. FASEB Journal, 2003, 17, 1-21. | 0.5 | 48 |
| 88 | Chemokine Expression by Glial Cells Directs Leukocytes to Sites of Axonal Injury in the CNS. Journal of Neuroscience, 2003, 23, 7922-7930. | 3.6 | 434 |
| 89 | The enigma of multiple sclerosis: inflammation and neurodegeneration cause heterogeneous dysfunction and damage. Current Opinion in Neurology, 2003, 16, 259-265. | 3.6 | 55 |
| 90 | Chemokines in Experimental Autoimmune Encephalomyelitis and Multiple Sclerosis. Advances in Experimental Medicine and Biology, 2003, 520, 120-132. | 1.6 | 21 |

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| 91 | The enigma of multiple sclerosis: inflammation and neurodegeneration cause heterogeneous dysfunction and damage. Current Opinion in Neurology, 2003, 16, 259-265. | 3.6 | 65 |
| 92 | Identification of new therapeutic targets for prevention of CNS inflammation. Expert Opinion on Therapeutic Targets, 2002, 6, 203-215. | 3.4 | 23 |
| 93 | CD40-Mediated Apoptosis in Murine B-Lymphoma Lines Containing Mutated p53. Experimental Cell Research, 2002, 280, 201-211. | 2.6 | 11 |
| 94 | Immune response induction in the central nervous system. Frontiers in Bioscience - Landmark, 2002, 7, d427-438. | 3.0 | 7 |
| 95 | Genetic models for CNS inflammation. Nature Medicine, 2001, 7, 161-166. | 30.7 | 169 |
| 96 | Naive T lymphocytes traffic to inflamed central nervous system, but require antigen recognition for activation. European Journal of Immunology, 2000, 30, 1002-1009. | 2.9 | 91 |
| 97 | Induction of experimental autoimmune encephalomyelitis in C57BL / 6 mice deficient in either the chemokine macrophage inflammatory protein-1Î± or its CCR5 receptor. European Journal of Immunology, 2000, 30, 1410-1415. | 2.9 | 156 |
| 98 | Elevated interferon-gamma in CNS inflammatory disease: a potential complication for bone marrow reconstitution in MS. Journal of Neuroimmunology, 2000, 108, 40-44. | 2.3 | 6 |
| 99 | IFNÎ³ Enhances Microglial Reactions to Hippocampal Axonal Degeneration. Journal of Neuroscience, 2000, 20, 3612-3621. | 3.6 | 80 |
| 100 | IFN-Î³ Shapes Immune Invasion of the Central Nervous System Via Regulation of Chemokines. Journal of Immunology, 2000, 164, 2759-2768. | 0.8 | 285 |
| 101 | Immune regulation and CNS autoimmune disease. Journal of Neuroimmunology, 1999, 100, 181-189. | 2.3 | 52 |
| 102 | Chemokine expression in GKO mice (lacking interferon-gamma) with experimental autoimmune encephalomyelitis. Journal of NeuroVirology, 1999, 5, 95-101. | 2.1 | 70 |
| 103 | Interferon-Î³ in Progression to Chronic Demyelination and Neurological Deficit Following Acute EAE. Molecular and Cellular Neurosciences, 1998, 12, 376-389. | 2.2 | 94 |
| 104 | Astrogliosis in the Neonatal and Adult Murine Brain Post-Trauma: Elevation of Inflammatory Cytokines and the Lack of Requirement for Endogenous Interferon-Î³. Journal of Neuroscience, 1997, 17, 3664-3674. | 3.6 | 145 |
| 105 | Increased severity of experimental autoimmune encephalomyelitis, chronic macrophage/microglial reactivity, and demyelination in transgenic mice producing tumor necrosis factorâ€Î± in the central nervous system. European Journal of Immunology, 1997, 27, 905-913. | 2.9 | 137 |
| 106 | The central nervous system environment controls effector CD4+ T cell cytokine profile in experimental allergic encephalomyelitis. European Journal of Immunology, 1997, 27, 2840-2847. | 2.9 | 102 |
| 107 | Glutamate metabolism is down-regulated in astrocytes during experimental allergic encephalomyelitis. , 1997, 20, 79-85. | | 98 |
| 108 | PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. Journal of Neuroscience Research, 1997, 50, 345-353. | 2.9 | 279 |

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| 109 | PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. Journal of Neuroscience Research, 1997, 50, 345-353. | 2.9 | 2 |
| 110 | Interferon-Î³ confers resistance to experimental allergic encephalomyelitis. European Journal of Immunology, 1996, 26, 1641-1646. | 2.9 | 448 |
| 111 | Immunotherapy for multiple sclerosis: From theory to practice. Nature Medicine, 1996, 2, 1074-1075. | 30.7 | 20 |
| 112 | The Immunology of Multiple Sclerosis and its Animal Model, Experimental Allergic Encephalomyelitis. Neurologic Clinics, 1995, 13, 51-73. | 1.8 | 142 |
| 113 | Co-stimulation by anti-immunoglobulin is required for B cell activation by CD40Llow T cells. European Journal of Immunology, 1994, 24, 2993-2999. | 2.9 | 20 |
| 114 | Inflammatory cytokines in the brain: Does the CNS shape immune responses?. Trends in Immunology, 1994, 15, 566-571. | 7.5 | 167 |
| 115 | The attraction of adhesion molecules. Annals of Neurology, 1993, 34, 123-124. | 5.3 | 15 |
| 116 | Loss rather than downregulation of CD4+ T cells as a mechanism for remission from experimental allergic encephalomyelitis. Journal of Neuroimmunology, 1993, 44, 193-198. | 2.3 | 35 |
| 117 | Direct demonstration of the infiltration of murine central nervous system by Pgp-1/CD44high CD45RBlow CD4+ T cells that induce experimental allergic encephalomyelitis. Journal of Neuroimmunology, 1992, 40, 57-69. | 2.3 | 90 |
| 118 | A role for adhesion molecules in contact-dependent T help for B cells. European Journal of Immunology, 1991, 21, 979-983. | 2.9 | 38 |