Michael R Wilson

List of Publications by Year
in descending order

122 papers	9,321 citations	66234 42 h-index	49773 87 g-index
149 all docs	149 docs citations	149 times ranked	13089 citing authors

#	Article	IF	Citations
1	Case Definitions, Diagnostic Algorithms, and Priorities in Encephalitis: Consensus Statement of the International Encephalitis Consortium. Clinical Infectious Diseases, 2013, 57, 1114-1128.	2.9	792
2	Actionable Diagnosis of Neuroleptospirosis by Next-Generation Sequencing. New England Journal of Medicine, 2014, 370, 2408-2417.	13.9	760
3	Clinical Metagenomic Sequencing for Diagnosis of Meningitis and Encephalitis. New England Journal of Medicine, 2019, 380, 2327-2340.	13.9	644
4	Clonally expanded B cells in multiple sclerosis bind EBV EBNA1 and GlialCAM. Nature, 2022, 603, 321-327.	13.7	343
5	Same Exposure but Two Radically Different Responses to Antibiotics: Resilience of the Salivary Microbiome versus Long-Term Microbial Shifts in Feces. MBio, 2015, 6, e01693-15.	1.8	333
6	Rapid pathogen detection by metagenomic next-generation sequencing of infected body fluids. Nature Medicine, 2021, 27, 115-124.	15.2	329
7	Silent progression in disease activityâ€“free relapsing multiple sclerosis. Annals of Neurology, 2019, 85, 653-666.	2.8	265
8	Evaluation of SARS-CoV-2 serology assays reveals a range of test performance. Nature Biotechnology, 2020, 38, 1174-1183.	9.4	251
9	Integrating host response and unbiased microbe detection for lower respiratory tract infection diagnosis in critically ill adults. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12353-E12362.	3.3	249
10	Depletion of Abundant Sequences by Hybridization (DASH): using Cas9 to remove unwanted high-abundance species in sequencing libraries and molecular counting applications. Genome Biology, 2016, 17, 41.	3.8	248
11	Chronic Meningitis Investigated via Metagenomic Next-Generation Sequencing. JAMA Neurology, 2018, 75, 947.	4.5	214
12	Global absence and targeting of protective immune states in severe COVID-19. Nature, 2021, 591, 124-130.	13.7	206
13	High tidal volume upregulates intrapulmonary cytokines in an in vivo mouse model of ventilator-induced lung injury. Journal of Applied Physiology, 2003, 95, 1385-1393.	1.2	187
14	Metagenomic Sequencing Detects Respiratory Pathogens in Hematopoietic Cellular Transplant Patients. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 524-528.	2.5	187
15	Kelch-like Protein 11 Antibodies in Seminoma-Associated Paraneoplastic Encephalitis. New England Journal of Medicine, 2019, 381, 47-54.	13.9	169
16	Bacillus anthracis comparative genome analysis in support of the Amerithrax investigation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5027-5032.	3.3	152
17	Alveolar macrophage-derived microvesicles mediate acute lung injury. Thorax, 2016, 71, 1020-1029.	2.7	148
18	Illuminating uveitis: metagenomic deep sequencing identifies common and rare pathogens. Genome Medicine, 2016, 8, 90.	3.6	148

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19	Neuroanatomical correlates of impaired recognition of emotion in dementia. Neuropsychologia, 2006, 44, 365-373.	0.7	135
20	Gut microbiotaâ€“specific IgA ⁺ B cells traffic to the CNS in active multiple sclerosis. Science Immunology, 2020, 5, .	5.6	132
21	Divergent and self-reactive immune responses in the CNS of COVID-19 patients with neurological symptoms. Cell Reports Medicine, 2021, 2, 100288.	3.3	121
22	A pathogenic and clonally expanded B cell transcriptome in active multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22932-22943.	3.3	119
23	Diagnosing <scp>Balamuthia mandrillaris</scp><scp>E</scp>ncephalitis <scp>W</scp>ith <scp>M</scp>etagenomic <scp>D</scp>eep<scp> S</scp>equencing. Annals of Neurology, 2015, 78, 722-730.	2.8	117
24	A novel cause of chronic viral meningoencephalitis: <scp>C</scp>ache Valley virus. Annals of Neurology, 2017, 82, 105-114.	2.8	111
25	Expanded Clinical Phenotype, Oncological Associations, and Immunopathologic Insights of Paraneoplastic Kelch-like Protein-11 Encephalitis. JAMA Neurology, 2020, 77, 1420.	4.5	109
26	Acute West Nile Virus Meningoencephalitis Diagnosed Via Metagenomic Deep Sequencing of Cerebrospinal Fluid in a Renal Transplant Patient. American Journal of Transplantation, 2017, 17, 803-808.	2.6	94
27	Pan-viral serology implicates enteroviruses in acute flaccid myelitis. Nature Medicine, 2019, 25, 1748-1752.	15.2	93
28	Metagenomics for neurological infections â€" expanding our imagination. Nature Reviews Neurology, 2020, 16, 547-556.	4.9	90
29	Clonal relationships of CSF B cells in treatment-naive multiple sclerosis patients. JCI Insight, 2017, 2, .	2.3	84
30	Unbiased Metagenomic Sequencing for Pediatric Meningitis in Bangladesh Reveals Neuroinvasive Chikungunya Virus Outbreak and Other Unrealized Pathogens. MBio, 2019, 10, .	1.8	79
31	Diagnosis of Fatal Human Case of St. Louis Encephalitis Virus Infection by Metagenomic Sequencing, California, 2016. Emerging Infectious Diseases, 2017, 23, 1964-1968.	2.0	76
32	Anti-CD20 therapy depletes activated myelin-specific CD8⁺T cells in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25800-25807.	3.3	71
33	ReScan, a Multiplex Diagnostic Pipeline, Pans Human Sera for SARS-CoV-2 Antigens. Cell Reports Medicine, 2020, 1, 100123.	3.3	70
34	Multiple sclerosis therapies differentially affect SARS-CoV-2 vaccineâ€“induced antibody and T cell immunity and function. JCI Insight, 2022, 7, .	2.3	69
35	Role of Lung-marginated Monocytes in an In Vivo Mouse Model of Ventilator-induced Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 914-922.	2.5	67
36	Metagenomic next-generation sequencing of samples from pediatric febrile illness in Tororo, Uganda. PLoS ONE, 2019, 14, e0218318.	1.1	66

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37	Differential roles of p55 and p75 tumor necrosis factor receptors on stretch-induced pulmonary edema in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L60-L68.	1.3	62
38	Competitive SARS-CoV-2 Serology Reveals Most Antibodies Targeting the Spike Receptor-Binding Domain Compete for ACE2 Binding. MSphere, 2020, 5, .	1.3	62
39	Hepatitis E Virusâ€“Associated Meningoencephalitis in a Lung Transplant Recipient Diagnosed by Clinical Metagenomic Sequencing. Open Forum Infectious Diseases, 2017, 4, ofx121.	0.4	60
40	Naloxone Has No Effect on Nitrous Oxide Anesthesia. Anesthesiology, 1978, 49, 6-8.	1.3	56
41	Ventilation with â€œclinically relevantâ€•high tidal volumes does not promote stretch-induced injury in the lungs of healthy mice. Critical Care Medicine, 2012, 40, 2850-2857.	0.4	52
42	Where Do Freestanding Emergency Departments Choose to Locate? A National Inventory and Geographic Analysis in Three States. Annals of Emergency Medicine, 2017, 69, 383-392.e5.	0.3	47
43	High-resolution epitope mapping of anti-Hu and anti-Yo autoimmunity by programmable phage display. Brain Communications, 2020, 2, fcaa059.	1.5	41
44	Tendon shift in hallux valgus: observations at MR imaging. Skeletal Radiology, 1996, 25, 519-524.	1.2	40
45	STROBE-metagenomics: a STROBE extension statement to guide the reporting of metagenomics studies. Lancet Infectious Diseases, The, 2020, 20, e251-e260.	4.6	40
46	Kinetic profiling of in vivo lung cellular inflammatory responses to mechanical ventilation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L912-L921.	1.3	39
47	In vivo compartmental analysis of leukocytes in mouse lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L639-L652.	1.3	39
48	Spinal Cord Atrophy Predicts Progressive Disease in Relapsing Multiple Sclerosis. Annals of Neurology, 2022, 91, 268-281.	2.8	39
49	Severe Epididymo-Orchitis and Encephalitis Complicating Anti-PD-1 Therapy. Oncologist, 2019, 24, 872-876.	1.9	38
50	Integrating central nervous system metagenomics and host response for diagnosis of tuberculosis meningitis and its mimics. Nature Communications, 2022, 13, 1675.	5.8	38
51	Stroke incidence is highest in women and non-Hispanic blacks living with HIV in the AIDS Clinical Trials Group Longitudinal Linked Randomized Trials cohort. Aids, 2018, 32, 1125-1135.	1.0	37
52	Frontotemporal Dementia and Mania. American Journal of Psychiatry, 2007, 164, 1811-1816.	4.0	36
53	Humoral immune response following SARS-CoV-2 mRNA vaccination concomitant to anti-CD20 therapy in multiple sclerosis. Multiple Sclerosis and Related Disorders, 2021, 56, 103251.	0.9	36
54	Inflammatory mechanisms of ventilator-induced lung injury: a time to stop and think?. Anaesthesia, 2013, 68, 175-178.	1.8	35

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55	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. Science Immunology, 2023, 8, .	5.6	35
56	Treatment Outcomes for T4 Oropharyngeal Squamous Cell Carcinoma. JAMA Otolaryngology - Head and Neck Surgery, 2015, 141, 1118.	1.2	33
57	Association of Ocular Inflammation and Rubella Virus Persistence. JAMA Ophthalmology, 2019, 137, 435.	1.4	33
58	Fatal Powassan Encephalitis (Deer Tick Virus, Lineage II) in a Patient With Fever and Orchitis Receiving Rituximab. JAMA Neurology, 2018, 75, 746.	4.5	31
59	Emerging viral infections. Current Opinion in Neurology, 2013, 26, 301-306.	1.8	30
60	A tale of two approaches. Current Opinion in Neurology, 2015, 28, 283-287.	1.8	30
61	Neurologic Complications of Common Variable Immunodeficiency. Journal of Clinical Immunology, 2016, 36, 793-800.	2.0	28
62	Metagenomic deep sequencing of aqueous fluid detects intraocular lymphomas. British Journal of Ophthalmology, 2018, 102, 6-8.	2.1	27
63	ATP redirects cytokine trafficking and promotes novel membrane TNF signaling via microvesicles. FASEB Journal, 2019, 33, 6442-6455.	0.2	27
64	MRI Atlas-Based Measurement of Spinal Cord Injury Predicts Outcome in Acute Flaccid Myelitis. American Journal of Neuroradiology, 2017, 38, 410-417.	1.2	25
65	Intrathecal B-cell activation in LGI1 antibody encephalitis. Neurology: Neuroimmunology and NeuroInflammation, 2020, 7, .	3.1	24
66	Using a non-invasive assessment of lung injury in a murine model of acute lung injury. BMJ Open Respiratory Research, 2014, 1, e000014.	1.2	23
67	Posterior Lip Sclerectomy vs Trabeculectomy in West Indian Blacks. JAMA Ophthalmology, 1989, 107, 1604.	2.6	22
68	Intra-alveolar neutrophil-derived microvesicles are associated with disease severity in COPD. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L73-L83.	1.3	22
69	Longitudinally persistent cerebrospinal fluid B-cells can resist treatment in multiple sclerosis. JCI Insight, 2019, 4, .	2.3	22
70	Eastern Equine Encephalitis Treated With Intravenous Immunoglobulins. Neurohospitalist, The, 2016, 6, 29-31.	0.3	21
71	Diseases of the central nervous system caused by lymphocytic choriomeningitis virus and other arenaviruses. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2014, 123, 671-681.	1.0	20
72	Immunophenotyping assessment in a COVID-19 cohort (IMPACC): A prospective longitudinal study. Science Immunology, 2021, 6, .	5.6	20

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73	Fujifilm SILVAMP TB LAM Assay on Cerebrospinal Fluid for the Detection of Tuberculous Meningitis in Adults With Human Immunodeficiency Virus. Clinical Infectious Diseases, 2021, 73, e3428-e3434.	2.9	20
74	Multiplexed Metagenomic Deep Sequencing To Analyze the Composition of High-Priority Pathogen Reagents. MSystems, 2016, 1, .	1.7	19
75	Inhibition of TNF Receptor p55 By a Domain Antibody Attenuates the Initial Phase of Acid-Induced Lung Injury in Mice. Frontiers in Immunology, 2017, 8, 128.	2.2	19
76	Diagnostic Testing of Neurologic Infections. Neurologic Clinics, 2018, 36, 687-703.	0.8	19
77	Impact of Urgent Care Openings on Emergency Department Visits to Two Academic Medical Centers Within an Integrated Health Care System. Annals of Emergency Medicine, 2020, 75, 382-391.	0.3	19
78	Genomic and serologic characterization of enterovirus A71 brainstem encephalitis. Neurology: Neuroimmunology and NeuroInflammation, 2020, 7, .	3.1	19
79	High-Fat Feeding Protects Mice From Ventilator-Induced Lung Injury, Via Neutrophil-Independent Mechanisms. Critical Care Medicine, 2017, 45, e831-e839.	0.4	18
80	Fatal Case of Chronic Jamestown Canyon Virus Encephalitis Diagnosed by Metagenomic Sequencing in Patient Receiving Rituximab. Emerging Infectious Diseases, 2021, 27, 238-242.	2.0	17
81	<scp>ZSCAN1</scp> Autoantibodies Are Associated with Pediatric Paraneoplastic <scp>ROHHAD</scp>. Annals of Neurology, 2022, 92, 279-291.	2.8	17
82	Cell type-specific transcriptomics identifies neddylation as a novel therapeutic target in multiple sclerosis. Brain, 2021, 144, 450-461.	3.7	16
83	Pleocytosis is not fully responsible for low CSF glucose in meningitis. Neurology: Neuroimmunology and NeuroInflammation, 2018, 5, e425.	3.1	15
84	Detection of Cryptococcus DNA by Metagenomic Next-generation Sequencing in Symptomatic Cryptococcal Antigenemia. Clinical Infectious Diseases, 2019, 68, 1978-1979.	2.9	15
85	Neurite Orientation Dispersion and Density Imaging for Assessing Acute Inflammation and Lesion Evolution in MS. American Journal of Neuroradiology, 2020, 41, 2219-2226.	1.2	14
86	Elevated N-Linked Glycosylation of IgG V Regions in Myasthenia Gravis Disease Subtypes. Journal of Immunology, 2021, 207, 2005-2014.	0.4	14
87	Detection of Neoplasms by Metagenomic Next-Generation Sequencing of Cerebrospinal Fluid. JAMA Neurology, 2021, 78, 1355.	4.5	14
88	Specific hypomethylation programs underpin B cell activation in early multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
89	Exploratory proteomic analysis implicates the alternative complement cascade in primary CNS vasculitis. Neurology, 2019, 93, e433-e444.	1.5	13
90	Antiretroviral Medication Errors Were Universal in Hospitalized HIV-Seropositive Patients at a Teaching Hospital. Journal of Acquired Immune Deficiency Syndromes (1999), 2001, 28, 496.	0.9	12

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91	Clinicopathology conference: 41â€yearâ€old woman with chronic relapsing meningitis. Annals of Neurology, 2019, 85, 161-169.	2.8	12
92	First clinical and myopathological description of a myofibrillar myopathy with congenital onset and homozygous mutation in FLNC. Human Mutation, 2020, 41, 1600-1614.	1.1	11
93	Meningitis Caused by the Live Varicella Vaccine Virus: Metagenomic Next Generation Sequencing, Immunology Exome Sequencing and Cytokine Multiplex Profiling. Viruses, 2021, 13, 2286.	1.5	11
94	Emerging Diagnostic and Therapeutic Tools for Central Nervous System Infections. JAMA Neurology, 2016, 73, 1389.	4.5	10
95	Exploratory analysis of the potential for advanced diagnostic testing to reduce healthcare expenditures of patients hospitalized with meningitis or encephalitis. PLoS ONE, 2020, 15, e0226895.	1.1	10
96	Chronic Meningitis. CONTINUUM Lifelong Learning in Neurology, 2018, 24, 1298-1326.	0.4	10
97	Longâ€term MRI changes in a patient with Kelchâ€like protein 11â€associated paraneoplastic neurological syndrome. European Journal of Neurology, 2021, 28, 4261-4266.	1.7	9
98	The value of different screening techniques for glaucoma. Current Opinion in Ophthalmology, 1994, 5, 69-75.	1.3	8
99	Use of Intravascular Carbon Dioxide Gas to Demonstrate Interatrial Septal Defects. American Journal of Physiology, 1958, 195, 579-585.	5.0	7
100	Issues and Updates in Emerging Neurologic Viral Infections. Seminars in Neurology, 2011, 31, 245-253.	0.5	7
101	Acute lower motor neuron syndrome and spinal cord gray matter hyperintensities in HIV infection. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e113.	3.1	7
102	To grow or not to grow, That is the question. , 2013, 4, 407.		6
103	Central Nervous System Virus Infection in African Children with Cerebral Malaria. American Journal of Tropical Medicine and Hygiene, 2020, 103, 200-205.	0.6	6
104	Baylisascaris procyonisâ€“Associated Meningoencephalitis in a Previously Healthy Adult, California, USA. Emerging Infectious Diseases, 2016, 22, 1480-1484.	2.0	5
105	Whole-Genome mRNA Gene Expression Differs Between Patients With and Without Delirium. Journal of Geriatric Psychiatry and Neurology, 2018, 31, 203-210.	1.2	5
106	Î²IV-Spectrin Autoantibodies in 2 Individuals With Neuropathy of Possible Paraneoplastic Origin. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	3.1	4
107	Infectious Diseases and Impaired Consciousness. Neurologic Clinics, 2011, 29, 927-942.	0.8	3
108	Next-generation sequencing of tissue. Neurology: Neuroimmunology and NeuroInflammation, 2016, 3, e261.	3.1	3

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109	Heart Failure Admission Service Triage (H-FAST) Study: Racialized Differences in Perceived Patient Self-Advocacy as a Driver of Admission Inequities. Cureus, 2021, 13, e13381.	0.2	3
110	A Rare Bird: Diagnosis of Psittacosis Meningitis by Clinical Metagenomic Next-Generation Sequencing. Open Forum Infectious Diseases, 2021, 8, ofab555.	0.4	3
111	Microvesicles as new therapeutic targets for the treatment of the acute respiratory distress syndrome (ARDS). Expert Opinion on Therapeutic Targets, 2019, 23, 931-941.	1.5	2
112	Enteroviruses: the elephants in the room. Lancet Infectious Diseases, The, 2020, 20, 153-155.	4.6	2
113	Case Report: A False Negative Case of Anti-Yo Paraneoplastic Myelopathy. Frontiers in Neurology, 2021, 12, 728700.	1.1	2
114	Translating research into practice: controlled clinical trials and their influence on glaucoma management. Journal of Glaucoma, 1996, 5, 139-46.	0.8	2
115	Microvesicle-Mediated Communication Within the Alveolar Space: Mechanisms of Uptake by Epithelial Cells and Alveolar Macrophages. Frontiers in Immunology, 2022, 13, 853769.	2.2	2
116	Neuroglial stem cell-derived inflammatory pseudotumor (n-SCIPT): clinicopathologic characterization of a novel lesion of the lumbosacral spinal cord and nerve roots following intrathecal allogeneic stem cell intervention. Acta Neuropathologica, 2019, 138, 1103-1106.	3.9	1
117	2563. Clinical Metagenomic Next-Generation Sequencing for Diagnosis of Meningitis and Encephalitis. Open Forum Infectious Diseases, 2018, 5, S72-S72.	0.4	0
118	Misinterpretation of Study Dataâ€"Reply. JAMA Neurology, 2019, 76, 113.	4.5	0
119	ANA Investigates: Pioneering Unbiased Diagnostics. Annals of Neurology, 2020, 87, 327-328.	2.8	0
120	Chronic Meningitis. , 2021, , 839-851.		0
121	Hauntings. JAMA - Journal of the American Medical Association, 2006, 295, 1347.	3.8	0
122	Reply to â€œSpinal Cord Atrophy Is a Preclinical Marker of Progressive <scp>MS</scp>â€• Annals of Neurology, 2022, 91, 735-736.	2.8	0