

Matthew B Frieman

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

16,438
citations

16451

64
h-index

32842

100
g-index

128
all docs

128
docs citations

128
times ranked

26383
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies in humanized mice and convalescent humans yield a SARS-CoV-2 antibody cocktail. <i>Science</i> , 2020, 369, 1010-1014.	12.6	1,140
2	Phase 1â€² Trial of a SARS-CoV-2 Recombinant Spike Protein Nanoparticle Vaccine. <i>New England Journal of Medicine</i> , 2020, 383, 2320-2332.	27.0	1,000
3	Animal models for COVID-19. <i>Nature</i> , 2020, 586, 509-515.	27.8	705
4	Selective Naked-Eye Detection of SARS-CoV-2 Mediated by N Gene Targeted Antisense Oligonucleotide Capped Plasmonic Nanoparticles. <i>ACS Nano</i> , 2020, 14, 7617-7627.	14.6	609
5	Severe Acute Respiratory Syndrome Coronavirus Open Reading Frame (ORF) 3b, ORF 6, and Nucleocapsid Proteins Function as Interferon Antagonists. <i>Journal of Virology</i> , 2007, 81, 548-557.	3.4	601
6	Repurposing of Clinically Developed Drugs for Treatment of Middle East Respiratory Syndrome Coronavirus Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4885-4893.	3.2	564
7	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. <i>Science</i> , 2020, 370, .	12.6	508
8	Severe Acute Respiratory Syndrome Coronavirus ORF6 Antagonizes STAT1 Function by Sequestering Nuclear Import Factors on the Rough Endoplasmic Reticulum/Golgi Membrane. <i>Journal of Virology</i> , 2007, 81, 9812-9824.	3.4	472
9	SARS-CoV-2 spike glycoprotein vaccine candidate NVX-CoV2373 immunogenicity in baboons and protection in mice. <i>Nature Communications</i> , 2021, 12, 372.	12.8	369
10	Bats and Coronaviruses. <i>Viruses</i> , 2019, 11, 41.	3.3	357
11	Antiviral Potential of ERK/MAPK and PI3K/AKT/mTOR Signaling Modulation for Middle East Respiratory Syndrome Coronavirus Infection as Identified by Temporal Kinome Analysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1088-1099.	3.2	344
12	Severe Acute Respiratory Syndrome Coronavirus Papain-Like Protease Ubiquitin-Like Domain and Catalytic Domain Regulate Antagonism of IRF3 and NF-Î³B Signaling. <i>Journal of Virology</i> , 2009, 83, 6689-6705.	3.4	325
13	Severe Acute Respiratory Syndrome Coronavirus Evades Antiviral Signaling: Role of nsp1 and Rational Design of an Attenuated Strain. <i>Journal of Virology</i> , 2007, 81, 11620-11633.	3.4	315
14	Binding and Neutralization Antibody Titers After a Single Vaccine Dose in Health Care Workers Previously Infected With SARS-CoV-2. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 1467.	7.4	311
15	Comorbid diabetes results in immune dysregulation and enhanced disease severity following MERS-CoV infection. <i>JCI Insight</i> , 2019, 4, .	5.0	267
16	Purified coronavirus spike protein nanoparticles induce coronavirus neutralizing antibodies in mice. <i>Vaccine</i> , 2014, 32, 3169-3174.	3.8	265
17	Insights from nanomedicine into chloroquine efficacy against COVID-19. <i>Nature Nanotechnology</i> , 2020, 15, 247-249.	31.5	250
18	Evidence Supporting a Zoonotic Origin of Human Coronavirus Strain NL63. <i>Journal of Virology</i> , 2012, 86, 12816-12825.	3.4	239

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19	Severe Acute Respiratory Syndrome Coronavirus Group-Specific Open Reading Frames Encode Nonessential Functions for Replication in Cell Cultures and Mice. <i>Journal of Virology</i> , 2005, 79, 14909-14922.	3.4	237
20	Genetic and structural basis for SARS-CoV-2 variant neutralization by a two-antibody cocktail. <i>Nature Microbiology</i> , 2021, 6, 1233-1244.	13.3	237
21	Abelson Kinase Inhibitors Are Potent Inhibitors of Severe Acute Respiratory Syndrome Coronavirus and Middle East Respiratory Syndrome Coronavirus Fusion. <i>Journal of Virology</i> , 2016, 90, 8924-8933.	3.4	229
22	A human-airway-on-a-chip for the rapid identification of candidate antiviral therapeutics and prophylactics. <i>Nature Biomedical Engineering</i> , 2021, 5, 815-829.	22.5	228
23	SARS coronavirus and innate immunity. <i>Virus Research</i> , 2008, 133, 101-112.	2.2	226
24	Preclinical characterization of an intravenous coronavirus 3CL protease inhibitor for the potential treatment of COVID19. <i>Nature Communications</i> , 2021, 12, 6055.	12.8	215
25	NVX-CoV2373 vaccine protects cynomolgus macaque upper and lower airways against SARS-CoV-2 challenge. <i>Vaccine</i> , 2020, 38, 7892-7896.	3.8	200
26	Pre- and postexposure efficacy of fully human antibodies against Spike protein in a novel humanized mouse model of MERS-CoV infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8738-8743.	7.1	196
27	Metagenomic Analysis of the Viromes of Three North American Bat Species: Viral Diversity among Different Bat Species That Share a Common Habitat. <i>Journal of Virology</i> , 2010, 84, 13004-13018.	3.4	194
28	Interferon- β and mycophenolic acid are potent inhibitors of Middle East respiratory syndrome coronavirus in cell-based assays. <i>Journal of General Virology</i> , 2014, 95, 571-577.	2.9	191
29	Broad Anti-coronavirus Activity of Food and Drug Administration-Approved Drugs against SARS-CoV-2 <i>In Vitro</i> and SARS-CoV <i>In Vivo</i> . <i>Journal of Virology</i> , 2020, 94, .	3.4	180
30	Coronaviruses: Important Emerging Human Pathogens. <i>Journal of Virology</i> , 2014, 88, 5209-5212.	3.4	170
31	Early Upregulation of Acute Respiratory Distress Syndrome-Associated Cytokines Promotes Lethal Disease in an Aged-Mouse Model of Severe Acute Respiratory Syndrome Coronavirus Infection. <i>Journal of Virology</i> , 2009, 83, 7062-7074.	3.4	156
32	Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome: Current Therapeutic Options and Potential Targets for Novel Therapies. <i>Drugs</i> , 2017, 77, 1935-1966.	10.9	156
33	The role of epidermal growth factor receptor (EGFR) signaling in SARS coronavirus-induced pulmonary fibrosis. <i>Antiviral Research</i> , 2017, 143, 142-150.	4.1	152
34	SARS-CoV Pathogenesis Is Regulated by a STAT1 Dependent but a Type I, II and III Interferon Receptor Independent Mechanism. <i>PLoS Pathogens</i> , 2010, 6, e1000849.	4.7	139
35	Genome Wide Identification of SARS-CoV Susceptibility Loci Using the Collaborative Cross. <i>PLoS Genetics</i> , 2015, 11, e1005504.	3.5	137
36	Functional landscape of SARS-CoV-2 cellular restriction. <i>Molecular Cell</i> , 2021, 81, 2656-2668.e8.	9.7	137

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37	Modular domain structure in the <i>Candida glabrata</i> adhesin Epa1p, a β 1,6 glucan-cross-linked cell wall protein. <i>Molecular Microbiology</i> , 2002, 46, 479-492.	2.5	134
38	Severe Acute Respiratory Syndrome Coronavirus ORF7a Inhibits Bone Marrow Stromal Antigen 2 Virion Tethering through a Novel Mechanism of Glycosylation Interference. <i>Journal of Virology</i> , 2015, 89, 11820-11833.	3.4	133
39	Molecular Determinants of Severe Acute Respiratory Syndrome Coronavirus Pathogenesis and Virulence in Young and Aged Mouse Models of Human Disease. <i>Journal of Virology</i> , 2012, 86, 884-897.	3.4	132
40	Coronavirus S protein-induced fusion is blocked prior to hemifusion by Abl kinase inhibitors. <i>Journal of General Virology</i> , 2018, 99, 619-630.	2.9	130
41	Glycan microarray analysis of <i>Candida glabrata</i> adhesin ligand specificity. <i>Molecular Microbiology</i> , 2008, 68, 547-559.	2.5	128
42	COVID-19: Knowns, Unknowns, and Questions. <i>MSphere</i> , 2020, 5, .	2.9	124
43	The Open Reading Frame 3a Protein of Severe Acute Respiratory Syndrome-Associated Coronavirus Promotes Membrane Rearrangement and Cell Death. <i>Journal of Virology</i> , 2010, 84, 1097-1109.	3.4	119
44	Defining the risk of SARS-CoV-2 variants on immune protection. <i>Nature</i> , 2022, 605, 640-652.	27.8	117
45	Coronavirus interactions with the cellular autophagy machinery. <i>Autophagy</i> , 2020, 16, 2131-2139.	9.1	113
46	Wild-type and innate immune-deficient mice are not susceptible to the Middle East respiratory syndrome coronavirus. <i>Journal of General Virology</i> , 2014, 95, 408-412.	2.9	111
47	Fab and Fc contribute to maximal protection against SARS-CoV-2 following NVX-CoV2373 subunit vaccine with Matrix-M vaccination. <i>Cell Reports Medicine</i> , 2021, 2, 100405.	6.5	110
48	Pyrimidine inhibitors synergize with nucleoside analogues to block SARS-CoV-2. <i>Nature</i> , 2022, 604, 134-140.	27.8	108
49	Celastrol, a Chinese herbal compound, controls autoimmune inflammation by altering the balance of pathogenic and regulatory T cells in the target organ. <i>Clinical Immunology</i> , 2015, 157, 228-238.	3.2	106
50	Human polyclonal immunoglobulin G from transchromosomal bovines inhibits MERS-CoV in vivo. <i>Science Translational Medicine</i> , 2016, 8, 326ra21.	12.4	102
51	The ORF4b-encoded accessory proteins of Middle East respiratory syndrome coronavirus and two related bat coronaviruses localize to the nucleus and inhibit innate immune signalling. <i>Journal of General Virology</i> , 2014, 95, 874-882.	2.9	99
52	Evaluation of SSYA10-001 as a Replication Inhibitor of Severe Acute Respiratory Syndrome, Mouse Hepatitis, and Middle East Respiratory Syndrome Coronaviruses. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4894-4898.	3.2	96
53	Mechanisms of Severe Acute Respiratory Syndrome Pathogenesis and Innate Immunomodulation. <i>Microbiology and Molecular Biology Reviews</i> , 2008, 72, 672-685.	6.6	95
54	MERS-CoV pathogenesis and antiviral efficacy of licensed drugs in human monocyte-derived antigen-presenting cells. <i>PLoS ONE</i> , 2018, 13, e0194868.	2.5	93

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55	Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses. <i>Science Translational Medicine</i> , 2022, 14, eabn7842.	12.4	92
56	Novel Influenza Virus NS1 Antagonists Block Replication and Restore Innate Immune Function. <i>Journal of Virology</i> , 2009, 83, 1881-1891.	3.4	91
57	Standards for Sequencing Viral Genomes in the Era of High-Throughput Sequencing. <i>MBio</i> , 2014, 5, e01360-14.	4.1	89
58	Infectious Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Exhaled Aerosols and Efficacy of Masks During Early Mild Infection. <i>Clinical Infectious Diseases</i> , 2022, 75, e241-e248.	5.8	89
59	Induction of Alternatively Activated Macrophages Enhances Pathogenesis during Severe Acute Respiratory Syndrome Coronavirus Infection. <i>Journal of Virology</i> , 2012, 86, 13334-13349.	3.4	88
60	The Î%â€œsite sequence of glycosylphosphatidylinositolâ€œanchored proteins in <i>Saccharomyces cerevisiae</i> can determine distribution between the membrane and the cell wall. <i>Molecular Microbiology</i> , 2003, 50, 883-896.	2.5	86
61	Overactive Epidermal Growth Factor Receptor Signaling Leads to Increased Fibrosis after Severe Acute Respiratory Syndrome Coronavirus Infection. <i>Journal of Virology</i> , 2017, 91, .	3.4	85
62	Desialylation of airway epithelial cells during influenza virus infection enhances pneumococcal adhesion via galectin binding. <i>Molecular Immunology</i> , 2015, 65, 1-16.	2.2	82
63	MERS-CoV spike nanoparticles protect mice from MERS-CoV infection. <i>Vaccine</i> , 2017, 35, 1586-1589.	3.8	78
64	One-Health: a Safe, Efficient, Dual-Use Vaccine for Humans and Animals against Middle East Respiratory Syndrome Coronavirus and Rabies Virus. <i>Journal of Virology</i> , 2017, 91, .	3.4	69
65	SINC, a type III secreted protein of <i>Chlamydia psittaci</i> , targets the inner nuclear membrane of infected cells and uninfected neighbors. <i>Molecular Biology of the Cell</i> , 2015, 26, 1918-1934.	2.1	64
66	Development and deployment of COVID-19 vaccines for those most vulnerable. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	60
67	Growth and Quantification of MERSâ€œCoV Infection. <i>Current Protocols in Microbiology</i> , 2015, 37, 15E.2.1-9.	6.5	59
68	Potential role for alternatively activated macrophages in the secondary bacterial infection during recovery from influenza. <i>Immunology Letters</i> , 2012, 141, 227-234.	2.5	58
69	The SARS coronavirus papain like protease can inhibit IRF3 at a post activation step that requires deubiquitination activity. <i>Virology Journal</i> , 2014, 11, 209.	3.4	58
70	SARS-CoV-2 vaccines for all but a single dose for COVID-19 survivors. <i>EBioMedicine</i> , 2021, 68, 103401.	6.1	58
71	An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor binding domain vaccine in aged mice. <i>Science Translational Medicine</i> , 2022, 14, .	12.4	57
72	Repurposing the Ebola and Marburg Virus Inhibitors Tilorone, Quinacrine, and Pyronaridine: <i>In Vitro</i> Activity against SARS-CoV-2 and Potential Mechanisms. <i>ACS Omega</i> , 2021, 6, 7454-7468.	3.5	56

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73	CD8 ⁺ T Cells and Macrophages Regulate Pathogenesis in a Mouse Model of Middle East Respiratory Syndrome. <i>Journal of Virology</i> , 2017, 91, .	3.4	52
74	RNA Polymerase I Transcription in a Brassica Interspecific Hybrid and Its Progenitors: Tests of Transcription Factor Involvement in Nucleolar Dominance. <i>Genetics</i> , 1999, 152, 451-460.	2.9	45
75	Drug Combinations as a First Line of Defense against Coronaviruses and Other Emerging Viruses. <i>MBio</i> , 2021, 12, e0334721.	4.1	45
76	Emergence of the Middle East Respiratory Syndrome Coronavirus. <i>PLoS Pathogens</i> , 2013, 9, e1003595.	4.7	43
77	Emerging preclinical evidence does not support broad use of hydroxychloroquine in COVID-19 patients. <i>Nature Communications</i> , 2020, 11, 4253.	12.8	43
78	An adjuvant strategy enabled by modulation of the physical properties of microbial ligands expands antigen immunogenicity. <i>Cell</i> , 2022, 185, 614-629.e21.	28.9	40
79	Transcriptomic Analysis Reveals a Mechanism for a Prefibrotic Phenotype in STAT1 Knockout Mice during Severe Acute Respiratory Syndrome Coronavirus Infection. <i>Journal of Virology</i> , 2010, 84, 11297-11309.	3.4	38
80	Yeast Based Small Molecule Screen for Inhibitors of SARS-CoV. <i>PLoS ONE</i> , 2011, 6, e28479.	2.5	37
81	The Global Virus Network: Challenging chikungunya. <i>Antiviral Research</i> , 2015, 120, 147-152.	4.1	31
82	A Universal Next-Generation Sequencing Protocol To Generate Noninfectious Barcoded cDNA Libraries from High-Containment RNA Viruses. <i>MSystems</i> , 2016, 1, .	3.8	28
83	The SKI complex is a broad-spectrum, host-directed antiviral drug target for coronaviruses, influenza, and filoviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30687-30698.	7.1	22
84	Deficiency of Melanoma Differentiation-associated Protein 5 Results in Exacerbated Chronic Postviral Lung Inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 437-448.	5.6	18
85	A Yeast Suppressor Screen Used To Identify Mammalian SIRT1 as a Proviral Factor for Middle East Respiratory Syndrome Coronavirus Replication. <i>Journal of Virology</i> , 2019, 93, .	3.4	18
86	The continued epidemic threat of SARS-CoV-2 and implications for the future of global public health. <i>Current Opinion in Virology</i> , 2020, 40, 37-40.	5.4	17
87	NKT Cell Responses to B Cell Lymphoma. <i>Medical Sciences (Basel, Switzerland)</i> , 2014, 2, 82-97.	2.9	15
88	Sars Coronavirus Accessory ORFs Encode Luxury Functions. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 149-152.	1.6	13
89	Screening of FDA-Approved Drugs for Treatment of Emerging Pathogens. <i>ACS Infectious Diseases</i> , 2015, 1, 401-402.	3.8	12
90	Host Cell Glycocalyx Remodeling Reveals SARS-CoV-2 Spike Protein Glycomic Binding Sites. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 799703.	3.5	11

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91	Monocyte DPP4 Expression in Human Atherosclerosis Is Associated With Obesity and Dyslipidemia. <i>Diabetes Care</i> , 2018, 41, e1-e3.	8.6	9
92	Novel TLR4 adjuvant elicits protection against homologous and heterologous Influenza A infection. <i>Vaccine</i> , 2021, 39, 5205-5213.	3.8	9
93	Respiratory Viruses. , 2018, , .		8
94	Phage-like particle vaccines are highly immunogenic and protect against pathogenic coronavirus infection and disease. <i>Npj Vaccines</i> , 2022, 7, .	6.0	8
95	Human Monoclonal Antibody Cocktail for the Treatment or Prophylaxis of Middle East Respiratory Syndrome Coronavirus. <i>Journal of Infectious Diseases</i> , 2021, , .	4.0	7
96	Viral RNA and infectious influenza virus on mobile phones of influenza patients in Hong Kong and the United States. <i>Journal of Infectious Diseases</i> , 2021, , .	4.0	5
97	An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor-binding domain vaccine in aged mice. <i>Science Translational Medicine</i> , 2021, , eabj5305.	12.4	4
98	Treating MERS-CoV during an outbreak. <i>Lancet Infectious Diseases</i> , The, 2014, 14, 1030-1031.	9.1	3
99	Inhibition of the IFN- γ JAK/STAT Pathway by MERS-CoV and SARS-CoV-1 Proteins in Human Epithelial Cells. <i>Viruses</i> , 2022, 14, 667.	3.3	3
100	The art of war: battles between virus and host. <i>Current Opinion in Virology</i> , 2014, 6, 76-77.	5.4	2
101	Broad Anti-coronavirus Activity of Food and Drug Administration-Approved Drugs against SARS-CoV-2 In Vitro and SARS-CoV In Vivo. <i>Journal of Virology</i> , 2020, 94, .	3.4	1
102	Foreword. <i>Virus Research</i> , 2014, 194, 1-2.	2.2	0
103	The SKI complex is a broad-spectrum antiviral drug target. <i>Access Microbiology</i> , 2020, 2, .	0.5	0
104	Using Yeast to Identify Coronavirusâ€Host Protein Interactions. <i>Methods in Molecular Biology</i> , 2020, 2203, 205-221.	0.9	0