

# Jason S Mclellan

## List of Publications by Year in descending order

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114  
papers

27,244  
citations

31902

53  
h-index

22764

112  
g-index

157  
all docs

157  
docs citations

157  
times ranked

30075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation. <i>Science</i> , 2020, 367, 1260-1263.	6.0	7,517
2	Site-specific glycan analysis of the SARS-CoV-2 spike. <i>Science</i> , 2020, 369, 330-333.	6.0	1,277
3	SARS-CoV-2 mRNA vaccine design enabled by prototype pathogen preparedness. <i>Nature</i> , 2020, 586, 567-571.	13.7	1,153
4	Structure-based design of prefusion-stabilized SARS-CoV-2 spikes. <i>Science</i> , 2020, 369, 1501-1505.	6.0	977
5	Immunogenicity and structures of a rationally designed prefusion MERS-CoV spike antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7348-E7357.	3.3	944
6	Structure-Based Design of a Fusion Glycoprotein Vaccine for Respiratory Syncytial Virus. <i>Science</i> , 2013, 342, 592-598.	6.0	797
7	Structure of HIV-1 gp120 V1/V2 domain with broadly neutralizing antibody PG9. <i>Nature</i> , 2011, 480, 336-343.	13.7	794
8	Beyond Shielding: The Roles of Glycans in the SARS-CoV-2 Spike Protein. <i>ACS Central Science</i> , 2020, 6, 1722-1734.	5.3	727
9	Structure of RSV Fusion Glycoprotein Trimer Bound to a Prefusion-Specific Neutralizing Antibody. <i>Science</i> , 2013, 340, 1113-1117.	6.0	656
10	Pre-fusion structure of a human coronavirus spike protein. <i>Nature</i> , 2016, 531, 118-121.	13.7	623
11	Broad neutralization of SARS-related viruses by human monoclonal antibodies. <i>Science</i> , 2020, 369, 731-736.	6.0	534
12	Immunogenicity of a DNA vaccine candidate for COVID-19. <i>Nature Communications</i> , 2020, 11, 2601.	5.8	514
13	Structural Basis for Potent Neutralization of Betacoronaviruses by Single-Domain Camelid Antibodies. <i>Cell</i> , 2020, 181, 1004-1015.e15.	13.5	506
14	Stabilized coronavirus spikes are resistant to conformational changes induced by receptor recognition or proteolysis. <i>Scientific Reports</i> , 2018, 8, 15701.	1.6	408
15	Vaccine Induction of Antibodies against a Structurally Heterogeneous Site of Immune Pressure within HIV-1 Envelope Protein Variable Regions 1 and 2. <i>Immunity</i> , 2013, 38, 176-186.	6.6	374
16	The respiratory syncytial virus vaccine landscape: lessons from the graveyard and promising candidates. <i>Lancet Infectious Diseases</i> , 2018, 18, e295-e311.	4.6	355
17	The neutralizing antibody, LY-CoV555, protects against SARS-CoV-2 infection in nonhuman primates. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	347
18	Structure of Respiratory Syncytial Virus Fusion Glycoprotein in the Postfusion Conformation Reveals Preservation of Neutralizing Epitopes. <i>Journal of Virology</i> , 2011, 85, 7788-7796.	1.5	327

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19	Prefusion Fâ€“specific antibodies determine the magnitude of RSV neutralizing activity in human sera. <i>Science Translational Medicine</i> , 2015, 7, 309ra162.	5.8	312
20	Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. <i>Nature Communications</i> , 2020, 11, 2688.	5.8	304
21	Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody. <i>Science</i> , 2021, 371, 823-829.	6.0	285
22	A glycan gate controls opening of the SARS-CoV-2 spike protein. <i>Nature Chemistry</i> , 2021, 13, 963-968.	6.6	254
23	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021, 594, 253-258.	13.7	253
24	SARS-CoV-2 escape from a highly neutralizing COVID-19 convalescent plasma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	251
25	A highly stable prefusion RSV F vaccine derived from structural analysis of the fusion mechanism. <i>Nature Communications</i> , 2015, 6, 8143.	5.8	248
26	Prevalent, protective, and convergent IgG recognition of SARS-CoV-2 non-RBD spike epitopes. <i>Science</i> , 2021, 372, 1108-1112.	6.0	210
27	A proof of concept for structure-based vaccine design targeting RSV in humans. <i>Science</i> , 2019, 365, 505-509.	6.0	207
28	Structure and Function of Respiratory Syncytial Virus Surface Glycoproteins. <i>Current Topics in Microbiology and Immunology</i> , 2013, 372, 83-104.	0.7	205
29	A highly potent extended half-life antibody as a potential RSV vaccine surrogate for all infants. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	189
30	Respiratory syncytial virus entry and how to block it. <i>Nature Reviews Microbiology</i> , 2019, 17, 233-245.	13.6	187
31	Rapid profiling of RSV antibody repertoires from the memory B cells of naturally infected adult donors. <i>Science Immunology</i> , 2016, 1, .	5.6	180
32	Structural and molecular basis for Ebola virus neutralization by protective human antibodies. <i>Science</i> , 2016, 351, 1343-1346.	6.0	176
33	Structure-Based Vaccine Antigen Design. <i>Annual Review of Medicine</i> , 2019, 70, 91-104.	5.0	160
34	Structural basis of respiratory syncytial virus neutralization by motavizumab. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 248-250.	3.6	156
35	Importance of Neutralizing Monoclonal Antibodies Targeting Multiple Antigenic Sites on the Middle East Respiratory Syndrome Coronavirus Spike Glycoprotein To Avoid Neutralization Escape. <i>Journal of Virology</i> , 2018, 92, .	1.5	155
36	Prolonged evolution of the human B cell response to SARS-CoV-2 infection. <i>Science Immunology</i> , 2021, 6, .	5.6	153

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37	Molecular determinants and mechanism for antibody cocktail preventing SARS-CoV-2 escape. <i>Nature Communications</i> , 2021, 12, 469.	5.8	148
38	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021, 184, 5432-5447.e16.	13.5	131
39	Infants Infected with Respiratory Syncytial Virus Generate Potent Neutralizing Antibodies that Lack Somatic Hypermutation. <i>Immunity</i> , 2018, 48, 339-349.e5.	6.6	126
40	Molecular mechanism of respiratory syncytial virus fusion inhibitors. <i>Nature Chemical Biology</i> , 2016, 12, 87-93.	3.9	121
41	Characterization of a Prefusion-Specific Antibody That Recognizes a Quaternary, Cleavage-Dependent Epitope on the RSV Fusion Glycoprotein. <i>PLoS Pathogens</i> , 2015, 11, e1005035.	2.1	106
42	Structure of a Major Antigenic Site on the Respiratory Syncytial Virus Fusion Glycoprotein in Complex with Neutralizing Antibody 101F. <i>Journal of Virology</i> , 2010, 84, 12236-12244.	1.5	105
43	Design and Characterization of Epitope-Scaffold Immunogens That Present the Motavizumab Epitope from Respiratory Syncytial Virus. <i>Journal of Molecular Biology</i> , 2011, 409, 853-866.	2.0	100
44	Molecular Architecture of Early Dissemination and Massive Second Wave of the SARS-CoV-2 Virus in a Major Metropolitan Area. <i>MBio</i> , 2020, 11, .	1.8	99
45	Neutralizing epitopes on the respiratory syncytial virus fusion glycoprotein. <i>Current Opinion in Virology</i> , 2015, 11, 70-75.	2.6	96
46	Structure and immunogenicity of pre-fusion-stabilized human metapneumovirus F glycoprotein. <i>Nature Communications</i> , 2017, 8, 1528.	5.8	86
47	The SARS-CoV-2 spike reversibly samples an open-trimer conformation exposing novel epitopes. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 229-238.	3.6	81
48	Suptavumab for the Prevention of Medically Attended Respiratory Syncytial Virus Infection in Preterm Infants. <i>Clinical Infectious Diseases</i> , 2021, 73, e4400-e4408.	2.9	77
49	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018, 13, 1196-1212.	5.5	71
50	Transient opening of trimeric prefusion RSV F proteins. <i>Nature Communications</i> , 2019, 10, 2105.	5.8	71
51	Early cross-coronavirus reactive signatures of humoral immunity against COVID-19. <i>Science Immunology</i> , 2021, 6, eabj2901.	5.6	67
52	Stabilized coronavirus spike stem elicits a broadly protective antibody. <i>Cell Reports</i> , 2021, 37, 109929.	2.9	64
53	Structural Definition of a Neutralization-Sensitive Epitope on the MERS-CoV S1-NTD. <i>Cell Reports</i> , 2019, 28, 3395-3405.e6.	2.9	63
54	Neutralization of Diverse Human Cytomegalovirus Strains Conferred by Antibodies Targeting Viral gH/gL/pUL128-131 Pentameric Complex. <i>Journal of Virology</i> , 2017, 91, .	1.5	60

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55	The 3.1-Angstrom Cryo-electron Microscopy Structure of the Porcine Epidemic Diarrhea Virus Spike Protein in the Prefusion Conformation. <i>Journal of Virology</i> , 2019, 93, .	1.5	59
56	Enhanced Neutralizing Antibody Response Induced by Respiratory Syncytial Virus Prefusion F Protein Expressed by a Vaccine Candidate. <i>Journal of Virology</i> , 2015, 89, 9499-9510.	1.5	58
57	Potent single-domain antibodies that arrest respiratory syncytial virus fusion protein in its prefusion state. <i>Nature Communications</i> , 2017, 8, 14158.	5.8	58
58	Therapeutic efficacy of a respiratory syncytial virus fusion inhibitor. <i>Nature Communications</i> , 2017, 8, 167.	5.8	58
59	Cross-reactive coronavirus antibodies with diverse epitope specificities and Fc effector functions. <i>Cell Reports Medicine</i> , 2021, 2, 100313.	3.3	56
60	Structural basis of respiratory syncytial virus subtype-dependent neutralization by an antibody targeting the fusion glycoprotein. <i>Nature Communications</i> , 2017, 8, 1877.	5.8	53
61	Structural, antigenic and immunogenic features of respiratory syncytial virus glycoproteins relevant for vaccine development. <i>Vaccine</i> , 2017, 35, 461-468.	1.7	53
62	Structural basis for recognition of the central conserved region of RSV G by neutralizing human antibodies. <i>PLoS Pathogens</i> , 2018, 14, e1006935.	2.1	50
63	Engineering, Structure and Immunogenicity of the Human Metapneumovirus F Protein in the Postfusion Conformation. <i>PLoS Pathogens</i> , 2016, 12, e1005859.	2.1	50
64	Cross-neutralizing antibodies bind a SARS-CoV-2 cryptic site and resist circulating variants. <i>Nature Communications</i> , 2021, 12, 5652.	5.8	49
65	Structure-Based Design of Prefusion-Stabilized Filovirus Glycoprotein Trimers. <i>Cell Reports</i> , 2020, 30, 4540-4550.e3.	2.9	46
66	Clinical Potential of Prefusion RSV F-specific Antibodies. <i>Trends in Microbiology</i> , 2018, 26, 209-219.	3.5	42
67	Protective neutralizing antibodies from human survivors of Crimean-Congo hemorrhagic fever. <i>Cell</i> , 2021, 184, 3486-3501.e21.	13.5	39
68	Continuous flexibility analysis of SARS-CoV-2 spike prefusion structures. <i>IUCr</i> , 2020, 7, 1059-1069.	1.0	39
69	A Cysteine Zipper Stabilizes a Pre-Fusion F Glycoprotein Vaccine for Respiratory Syncytial Virus. <i>PLoS ONE</i> , 2015, 10, e0128779.	1.1	38
70	Human Cytomegalovirus Glycoprotein B Nucleoside-Modified mRNA Vaccine Elicits Antibody Responses with Greater Durability and Breadth than MF59-Adjuvanted gB Protein Immunization. <i>Journal of Virology</i> , 2020, 94, .	1.5	37
71	Vaccination with prefusion-stabilized respiratory syncytial virus fusion protein induces genetically and antigenically diverse antibody responses. <i>Immunity</i> , 2021, 54, 769-780.e6.	6.6	37
72	Structure-Based Design of Nipah Virus Vaccines: A Generalizable Approach to Paramyxovirus Immunogen Development. <i>Frontiers in Immunology</i> , 2020, 11, 842.	2.2	36

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73	Local computational methods to improve the interpretability and analysis of cryo-EM maps. <i>Nature Communications</i> , 2021, 12, 1240.	5.8	36
74	A Combination of Receptor-Binding Domain and N-Terminal Domain Neutralizing Antibodies Limits the Generation of SARS-CoV-2 Spike Neutralization-Escape Mutants. <i>MBio</i> , 2021, 12, e0247321.	1.8	35
75	Adjuvanting a subunit SARS-CoV-2 vaccine with clinically relevant adjuvants induces durable protection in mice. <i>Npj Vaccines</i> , 2022, 7, .	2.9	32
76	Packaging and Prefusion Stabilization Separately and Additively Increase the Quantity and Quality of Respiratory Syncytial Virus (RSV)-Neutralizing Antibodies Induced by an RSV Fusion Protein Expressed by a Parainfluenza Virus Vector. <i>Journal of Virology</i> , 2016, 90, 10022-10038.	1.5	31
77	Expression and characterization of SARS-CoV-2 spike proteins. <i>Nature Protocols</i> , 2021, 16, 5339-5356.	5.5	31
78	Improved Prefusion Stability, Optimized Codon Usage, and Augmented Virion Packaging Enhance the Immunogenicity of Respiratory Syncytial Virus Fusion Protein in a Vectored-Vaccine Candidate. <i>Journal of Virology</i> , 2017, 91, .	1.5	30
79	Alternative conformations of a major antigenic site on RSV F. <i>PLoS Pathogens</i> , 2019, 15, e1007944.	2.1	29
80	RSV N-nanorings fused to palivizumab-targeted neutralizing epitope as a nanoparticle RSV vaccine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 411-420.	1.7	28
81	Structure and Characterization of Crimean-Congo Hemorrhagic Fever Virus GP38. <i>Journal of Virology</i> , 2020, 94, .	1.5	28
82	Efficient discovery of SARS-CoV-2-neutralizing antibodies via B cell receptor sequencing and ligand blocking. <i>Nature Biotechnology</i> , 2022, 40, 1270-1275.	9.4	27
83	Crystal Structure and Immunogenicity of the DS-Cav1-Stabilized Fusion Glycoprotein From Respiratory Syncytial Virus Subtype B. <i>Pathogens and Immunity</i> , 2019, 4, 294.	1.4	26
84	Safety and immunogenicity of an inactivated recombinant Newcastle disease virus vaccine expressing SARS-CoV-2 spike: Interim results of a randomised, placebo-controlled, phase 1 trial. <i>EClinicalMedicine</i> , 2022, 45, 101323.	3.2	26
85	Structure-based design of prefusion-stabilized human metapneumovirus fusion proteins. <i>Nature Communications</i> , 2022, 13, 1299.	5.8	26
86	Discovery of a Prefusion Respiratory Syncytial Virus F-Specific Monoclonal Antibody That Provides Greater <i>In Vivo</i> Protection than the Murine Precursor of Palivizumab. <i>Journal of Virology</i> , 2017, 91, .	1.5	24
87	Glycosylation and Serological Reactivity of an Expression-enhanced SARS-CoV-2 Viral Spike Mimetic. <i>Journal of Molecular Biology</i> , 2022, 434, 167332.	2.0	22
88	Crystal Structures of Two Immune Complexes Identify Determinants for Viral Infectivity and Type-Specific Neutralization of Human Papillomavirus. <i>MBio</i> , 2017, 8, .	1.8	20
89	Potent neutralization of SARS-CoV-2 variants of concern by an antibody with an uncommon genetic signature and structural mode of spike recognition. <i>Cell Reports</i> , 2021, 37, 109784.	2.9	20
90	Trimeric SARS-CoV-2 Spike Proteins Produced from CHO Cells in Bioreactors Are High-Quality Antigens. <i>Processes</i> , 2020, 8, 1539.	1.3	18

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91	Recognition of a highly conserved glycoprotein B epitope by a bivalent antibody neutralizing HCMV at a post-attachment step. <i>PLoS Pathogens</i> , 2020, 16, e1008736.	2.1	17
92	Principles and practical applications of structure-based vaccine design. <i>Current Opinion in Immunology</i> , 2022, 77, 102209.	2.4	17
93	Structural basis of synergistic neutralization of Crimean-Congo hemorrhagic fever virus by human antibodies. <i>Science</i> , 2022, 375, 104-109.	6.0	15
94	Cryo-EM structure of the EBV ribonucleotide reductase BORF2 and mechanism of APOBEC3B inhibition. <i>Science Advances</i> , 2022, 8, eabm2827.	4.7	15
95	Safety and immunogenicity of an egg-based inactivated Newcastle disease virus vaccine expressing SARS-CoV-2 spike: Interim results of a randomized, placebo-controlled, phase 1/2 trial in Vietnam. <i>Vaccine</i> , 2022, 40, 3621-3632.	1.7	15
96	A high-throughput inhibition assay to study MERS-CoV antibody interactions using image cytometry. <i>Journal of Virological Methods</i> , 2019, 265, 77-83.	1.0	12
97	Characterization of a human monoclonal antibody generated from a B-cell specific for a prefusion-stabilized spike protein of Middle East respiratory syndrome coronavirus. <i>PLoS ONE</i> , 2020, 15, e0232757.	1.1	11
98	Protein engineering responses to the COVID-19 pandemic. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102385.	2.6	11
99	Chimeric <i>Pneumoviridae</i> fusion proteins as immunogens to induce neutralizing antibody responses. <i>EMBO Molecular Medicine</i> , 2018, 10, 175-187.	3.3	10
100	Analysis of Viral Spike Protein N-Glycosylation Using Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 5776-5784.	3.2	10
101	Five Residues in the Apical Loop of the Respiratory Syncytial Virus Fusion Protein F <sub>2</sub> Subunit Are Critical for Its Fusion Activity. <i>Journal of Virology</i> , 2018, 92, .	1.5	9
102	Structural basis for antibody binding to adenylate cyclase toxin reveals RTX linkers as neutralization-sensitive epitopes. <i>PLoS Pathogens</i> , 2021, 17, e1009920.	2.1	9
103	A Vulnerable, Membrane-Proximal Site in Human Respiratory Syncytial Virus F Revealed by a Prefusion-Specific Single-Domain Antibody. <i>Journal of Virology</i> , 2021, 95, .	1.5	8
104	Iterative screen optimization maximizes the efficiency of macromolecular crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 123-131.	0.4	8
105	Structural basis for HCMV Pentamer recognition by neuropilin 2 and neutralizing antibodies. <i>Science Advances</i> , 2022, 8, eabm2546.	4.7	8
106	Structural basis for ultrapotent antibody-mediated neutralization of human metapneumovirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	8
107	Elicitation of pneumovirus-specific B cell responses by a prefusion-stabilized respiratory syncytial virus F subunit vaccine. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	7
108	Prefusion F <sub>2</sub> -Based Polyanhydride Nanovaccine Induces Both Humoral and Cell-Mediated Immunity Resulting in Long-Lasting Protection against Respiratory Syncytial Virus. <i>Journal of Immunology</i> , 2021, 206, 2122-2134.	0.4	6

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109	Structural basis of synergistic neutralization of Crimean-Congo hemorrhagic fever virus by human antibodies. Science, 2021, , eabl6502.	6.0	2
110	Structural Basis of Neutralization by Human Antibodies Targeting Crimean-Congo Hemorrhagic Fever Virus Glycoprotein Gc. SSRN Electronic Journal, 0, , .	0.4	0
111	Title is missing!. , 2020, 16, e1008736.		0
112	Title is missing!. , 2020, 16, e1008736.		0
113	Title is missing!. , 2020, 16, e1008736.		0
114	Title is missing!. , 2020, 16, e1008736.		0