Meng Yuan

List of Publications by Year in Descending Order

77 papers	4,267 citations	24 h-index	65 g-index
86 ext. papers	6,001 ext. citations	14.1 avg, IF	6.06 L-index

#	Paper	IF	Citations
77	A human antibody reveals a conserved site on beta-coronavirus spike proteins and confers protection against SARS-CoV-2 infection.. *Science Translational Medicine*, **2022**, 14, eabi9215	17.5	15
76	Targeted isolation of panels of diverse human protective broadly neutralizing antibodies against SARS-like viruses. **2022**,		3
75	SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies.. *Science*, **2022**, 375, eabm5835	33.3	12
74	Broadly neutralizing anti-S2 antibodies protect against all three human betacoronaviruses that cause severe disease. **2022**,		2
73	A broad and potent neutralization epitope in SARS-related coronaviruses. **2022**,		2
72	A large-scale systematic survey reveals recurring molecular features of public antibody responses to SARS-CoV-2.. *Immunity*, **2022**,	32.3	2
71	Broadly neutralizing antibodies target the coronavirus fusion peptide. **2022**,		3
70	Probing Affinity, Avidity, Anticooperativity, and Competition in Antibody and Receptor Binding to the SARS-CoV-2 Spike by Single Particle Mass Analyses. *ACS Central Science*, **2021**, 7, 1863-1873	16.8	2
69	A large-scale systematic survey of SARS-CoV-2 antibodies reveals recurring molecular features **2021**,		3
68	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. *Nature Communications*, **2021**, 12, 6097	17.4	15
67	Neutralizing Antibodies to SARS-CoV-2 Selected from a Human Antibody Library Constructed Decades Ago. *Advanced Science*, **2021**, e2102181	13.6	6
66	Dynamics of B-cell repertoires and emergence of cross-reactive responses in COVID-19 patients with different disease severity **2021**,		2
65	A protective broadly cross-reactive human antibody defines a conserved site of vulnerability on beta-coronavirus spikes **2021**,		26
64	Ultrapotent bispecific antibodies neutralize emerging SARS-CoV-2 variants **2021**,		6
63	Dynamics of B cell repertoires and emergence of cross-reactive responses in patients with different severities of COVID-19. *Cell Reports*, **2021**, 35, 109173	10.6	14
62	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. *Science*, **2021**, 373, 818-823	33.3	148
61	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. *Cell Host and Microbe*, **2021**, 29, 806-818.e6	23.4	24

60	NMR Based SARS-CoV-2 Antibody Screening. *Journal of the American Chemical Society*, **2021**, 143, 7930-7934	15.4	3
59	Diverse immunoglobulin gene usage and convergent epitope targeting in neutralizing antibody responses to SARS-CoV-2. *Cell Reports*, **2021**, 35, 109109	10.6	7
58	Sequence signatures of two public antibody clonotypes that bind SARS-CoV-2 receptor binding domain. *Nature Communications*, **2021**, 12, 3815	17.4	15
57	Homologous and heterologous serological response to the N-terminal domain of SARS-CoV-2 in humans and mice. *European Journal of Immunology*, **2021**, 51, 2296-2305	6.1	2
56	Recognition of the SARS-CoV-2 receptor binding domain by neutralizing antibodies. *Biochemical and Biophysical Research Communications*, **2021**, 538, 192-203	3.4	93
55	Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants **2021**,		26
54	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models **2021**,		10
53	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. *Science*, **2021**, 371,	33.3	149
52	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection **2021**,		3
51	Bispecific antibodies targeting distinct regions of the spike protein potently neutralize SARS-CoV-2 variants of concern. *Science Translational Medicine*, **2021**, 13, eabj5413	17.5	18
50	Serological assays for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), March 2020. *Eurosurveillance*, **2020**, 25,	19.8	220
49	Cross-reactive Antibody Response between SARS-CoV-2 and SARS-CoV Infections. *Cell Reports*, **2020**, 31, 107725	10.6	263
48	Isolation of potent SARS-CoV-2 neutralizing antibodies and protection from disease in a small animal model. *Science*, **2020**, 369, 956-963	33.3	906
47	A highly conserved cryptic epitope in the receptor binding domains of SARS-CoV-2 and SARS-CoV. *Science*, **2020**, 368, 630-633	33.3	954
46	AID assists DNMT1 to attenuate BCL6 expression through DNA methylation in diffuse large B-cell lymphoma cell lines. *Neoplasia*, **2020**, 22, 142-153	6.4	8
45	Structural and kinetic characterization of Trypanosoma congolense pyruvate kinase. *Molecular and Biochemical Parasitology*, **2020**, 236, 111263	1.9	
44	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. *Journal of Virology*, **2020**, 94,	6.6	24
43	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody. *PLoS Pathogens*, **2020**, 16, e1009089	7.6	33

42	Cross-reactive antibody response between SARS-CoV-2 and SARS-CoV infections **2020**,		40
41	Structural basis of a public antibody response to SARS-CoV-2 **2020**,		14
40	An alternative binding mode of IGHV3-53 antibodies to the SARS-CoV-2 receptor binding domain **2020**,		8
39	Cross-neutralization of a SARS-CoV-2 antibody to a functionally conserved site is mediated by avidity **2020**,		13
38	A SARS-CoV-2 neutralizing antibody protects from lung pathology in a COVID-19 hamster model **2020**,		15
37	A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody **2020**,		2
36	A Therapeutic Non-self-reactive SARS-CoV-2 Antibody Protects from Lung Pathology in a COVID-19 Hamster Model. *Cell*, **2020**, 183, 1058-1069.e19	56.2	182
35	An Alternative Binding Mode of IGHV3-53 Antibodies to the SARS-CoV-2 Receptor Binding Domain. *Cell Reports*, **2020**, 33, 108274	10.6	107
34	Structural basis of a shared antibody response to SARS-CoV-2. *Science*, **2020**, 369, 1119-1123	33.3	338
33	Cross-Neutralization of a SARS-CoV-2 Antibody to a Functionally Conserved Site Is Mediated by Avidity. *Immunity*, **2020**, 53, 1272-1280.e5	32.3	112
32	Pyruvate kinase from Plasmodium falciparum: Structural and kinetic insights into the allosteric mechanism. *Biochemical and Biophysical Research Communications*, **2020**, 532, 370-376	3.4	2
31	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. *PLoS Pathogens*, **2020**, 16, e1008753	7.6	37
30	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753		
29	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753		
28	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753		
27	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753		
26	Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. *Cell Host and Microbe*, **2019**, 25, 873-883.e5	23.4	25
25	Pyruvate Kinase Regulates the Pentose-Phosphate Pathway in Response to Hypoxia in Mycobacterium tuberculosis. *Journal of Molecular Biology*, **2019**, 431, 3690-3705	6.5	4

24	An allostatic mechanism for M2 pyruvate kinase as an amino-acid sensor. *Biochemical Journal*, **2018**, 475, 1821-1837	3.8	28
23	Redox regulation of pyruvate kinase M2 by cysteine oxidation and S-nitrosation. *Biochemical Journal*, **2018**, 475, 3275-3291	3.8	13
22	Structures of Leishmania Fructose-1,6-Bisphosphatase Reveal Species-Specific Differences in the Mechanism of Allosteric Inhibition. *Journal of Molecular Biology*, **2017**, 429, 3075-3089	6.5	8
21	Allosteric pyruvate kinase-based "logic gate" synergistically senses energy and sugar levels in Mycobacterium tuberculosis. *Nature Communications*, **2017**, 8, 1986	17.4	25
20	Pyruvate kinases have an intrinsic and conserved decarboxylase activity. *Biochemical Journal*, **2014**, 458, 301-11	3.8	5
19	Two novel analytical methods based on polyclonal and monoclonal antibodies for the rapid detection of Cronobacter spp.: Development and application in powdered infant formula. *LWT - Food Science and Technology*, **2014**, 56, 335-340	5.4	23
18	Colloidal gold based immunochromatographic strip for the simple and sensitive determination of aflatoxin B1 and B2 in corn and rice. *Mikrochimica Acta*, **2013**, 180, 921-928	5.8	24
17	A direct competitive enzyme-linked immunosorbent assay for rapid detection of anilofos residues in agricultural products and environmental samples. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2013**, 48, 1-8	2.2	6
16	Computer-aided molecular modeling study on antibody recognition of small molecules: an immunoassay for triazine herbicides. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 10486-93	5.7	18
15	A gel-based visual immunoassay for non-instrumental detection of chloramphenicol in food samples. *Analytica Chimica Acta*, **2012**, 751, 128-34	6.6	17
14	Enzyme-linked immunosorbent assay and immunochromatographic strip for rapid detection of atrazine in water samples. *Mikrochimica Acta*, **2012**, 177, 177-184	5.8	18
13	Rapid Determination of Fumonisin B1 in Food Samples by a Clean-Up Tandem Immunoassay Column. *Advanced Materials Research*, **2012**, 488-489, 1568-1573	0.5	1
12	Immunoassay for phenylurea herbicides: application of molecular modeling and quantitative structure-activity relationship analysis on an antigen-antibody interaction study. *Analytical Chemistry*, **2011**, 83, 4767-74	7.8	37
11	Enzyme-linked immunosorbent assay and colloidal gold-based immunochromatographic assay for several (fluoro)quinolones in milk. *Mikrochimica Acta*, **2011**, 173, 307-316	5.8	40
10	Dynamics of B-Cell Repertoires and Emergence of Cross-Reactive Responses in COVID-19 Patients with Different Disease Severity. *SSRN Electronic Journal*,	1	1
9	Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates		7
8	A highly conserved cryptic epitope in the receptor-binding domains of SARS-CoV-2 and SARS-CoV		32
7	Potent SARS-CoV-2 neutralizing antibodies selected from a human antibody library constructed decades ago		6

6	Broadening a SARS-CoV-1 neutralizing antibody for potent SARS-CoV-2 neutralization through directed evolution	3
5	Structure-based design of a highly stable, covalently-linked SARS-CoV-2 spike trimer with improved structural properties and immunogenicity	9
4	Probing Affinity, Avidity, Anti-Cooperativity, and Competition in Antibody and Receptor Binding to the SARS-CoV-2 Spike by Single Particle Mass Analyses	1
3	Broadly neutralizing antibodies to SARS-related viruses can be readily induced in rhesus macaques	4
2	SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies	3
1	A recurring YYDRxG pattern in broadly neutralizing antibodies to a conserved site on SARS-CoV-2, variants of concern, and related viruses	5