

Viral targets for vaccines against COVID-19

Nature Reviews Immunology

21, 73-82

DOI: [10.1038/s41577-020-00480-0](https://doi.org/10.1038/s41577-020-00480-0)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Positivity of SARS-CoV-2 Antibodies among Korean Healthy Healthcare Workers 1 and 2 Weeks after Second Dose of Pfizer-BioNTech Vaccination. <i>Journal of Korean Medical Science</i> , 2021, 36, e158.	1.1	11
2	The Genetic Variant of SARS-CoV-2: Would it matter for Controlling the Devastating Pandemic?. <i>International Journal of Biological Sciences</i> , 2021, 17, 1476-1485.	2.6	23
3	Sharp Reductions in COVID-19 Case Fatalities and Excess Deaths in Peru in Close Time Conjunction, State-By-State, with Ivermectin Treatments. <i>SSRN Electronic Journal</i> , 0, , .	0.4	7
4	Could repurposing existing vaccines and antibiotics help to control the COVID-19 pandemic?. , 2021, , 245-255.		0
5	Safety of COVID-19 vaccines administered in the EU: Should we be concerned?. <i>Toxicology Reports</i> , 2021, 8, 871-879.	1.6	95
6	Older adults: panoramic view on the COVID-19 vaccination. <i>AIMS Public Health</i> , 2021, 8, 388-415.	1.1	14
8	Evolution, correlation, structural impact and dynamics of emerging SARS-CoV-2 variants. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3799-3809.	1.9	24
9	A COVID-19 Vaccine: Big Strides Come with Big Challenges. <i>Vaccines</i> , 2021, 9, 39.	2.1	78
10	An Update on the Pathogenesis of COVID-19 and the Reportedly Rare Thrombotic Events Following Vaccination. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2021, 27, 107602962110214.	0.7	29
11	Updated insight into COVID-19 disease and health management to combat the pandemic. , 2021, , 3-39.		6
12	Antibody Titers 3-Months Post-Vaccination with the Pfizer/Biontech Vaccine in Greece. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
13	SARS-CoV-2 Spike Protein Elicits Cell Signaling in Human Host Cells: Implications for Possible Consequences of COVID-19 Vaccines. <i>Vaccines</i> , 2021, 9, 36.	2.1	41
15	Specific measures to response pandemic of COVID-19 in China: a systematic review. <i>E3S Web of Conferences</i> , 2021, 292, 03076.	0.2	0
17	Spike S2 Subunit: The Dark Horse in the Race for Prophylactic and Therapeutic Interventions against SARS-CoV-2. <i>Vaccines</i> , 2021, 9, 178.	2.1	23
18	COVID-19 vaccines: implementation, limitations and opportunities. <i>Global Health & Medicine</i> , 2021, 3, 1-5.	0.6	28
20	Making sense of spike D614G in SARS-CoV-2 transmission. <i>Science China Life Sciences</i> , 2021, 64, 1062-1067.	2.3	8
23	SARS-CoV-2 Infection and Disease Modelling Using Stem Cell Technology and Organoids. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2356.	1.8	13
24	COVID-19 mRNA vaccines. <i>Journal of Genetics and Genomics</i> , 2021, 48, 107-114.	1.7	59

#	ARTICLE	IF	CITATIONS
25	Mutational hotspots and conserved domains of SARS-CoV-2 genome in African population. Beni-Suef University Journal of Basic and Applied Sciences, 2021, 10, 11.	0.8	14
30	Development and Characterization of Inhaled Ethanol as a Novel Pharmacological Strategy Currently Evaluated in a Phase II Clinical Trial for Early-Stage SARS-CoV-2 Infection. Pharmaceutics, 2021, 13, 342.	2.0	8
35	Human lung-on-chips: Advanced systems for respiratory virus models and assessment of immune response. Biomicrofluidics, 2021, 15, 021501.	1.2	14
37	Advances of mRNA vaccines for COVID-19: A new prophylactic revolution begins. Asian Journal of Pharmaceutical Sciences, 2021, 16, 263-264.	4.3	8
39	Immunity to SARS-CoV-2: Lessons Learned. Frontiers in Immunology, 2021, 12, 654165.	2.2	33
40	Opposing vaccine hesitancy during the COVID-19 pandemic - A critical commentary and united statement of an international osteopathic research community. International Journal of Osteopathic Medicine, 2021, 39, A1-A6.	0.4	4
41	SARS-CoV-2 - SYNOPTIC CHART OF THE MAIN CHARACTERISTICS OF VIRUS, PATHOGENESIS, IMMUNE RESPONSE, IMMUNOPROPHYLAXIS. Roumanian Archives of Microbiology and Immunology, 2021, 80, 51-80.	0.1	1
45	Eosinophils and COVID-19: diagnosis, prognosis, and vaccination strategies. Seminars in Immunopathology, 2021, 43, 383-392.	2.8	36
46	Different Therapeutic Strategies to Tackle the Infection Associated with COVID-19. , 0, , .		0
47	Exaptation of Retroviral Syncytin for Development of Syncytialized Placenta, Its Limited Homology to the SARS-CoV-2 Spike Protein and Arguments against Disturbing Narrative in the Context of COVID-19 Vaccination. Biology, 2021, 10, 238.	1.3	18
49	A Comprehensive Review of the Global Efforts on COVID-19 Vaccine Development. ACS Central Science, 2021, 7, 512-533.	5.3	217
51	Transgene Delivery to Human Induced Pluripotent Stem Cells Using Nanoparticles. Pharmaceutics, 2021, 14, 334.	1.7	3
55	COVID-19 Vaccination in Patients With Multiple Sclerosis on Disease-Modifying Therapy. Neurology: Clinical Practice, 2021, 11, 358-361.	0.8	14
56	Neutralizing monoclonal antibodies for treatment of COVID-19. Nature Reviews Immunology, 2021, 21, 382-393.	10.6	568
57	Deepening of In Silico Evaluation of SARS-CoV-2 Detection RT-qPCR Assays in the Context of New Variants. Genes, 2021, 12, 565.	1.0	26
58	Neutralizing Antibody Therapeutics for COVID-19. Viruses, 2021, 13, 628.	1.5	99
64	In Silico Mining of Terpenes from Red-Sea Invertebrates for SARS-CoV-2 Main Protease (Mpro) Inhibitors. Molecules, 2021, 26, 2082.	1.7	39
65	COVID-19 Vaccines: Current Understanding on Immunogenicity, Safety, and Further Considerations. Frontiers in Immunology, 2021, 12, 669339.	2.2	81

#	ARTICLE	IF	CITATIONS
66	RBD targeted COVID vaccine and full length spike-protein vaccine (mutation and glycosylation role) relationship with procoagulant effect. , 2021, 5, 001-008.		0
67	The Transmission of SARS-CoV-2 Infection on the Ocular Surface and Prevention Strategies. <i>Cells</i> , 2021, 10, 796.	1.8	22
68	Distinct antibody and memory B cell responses in SARS-CoV-2 naïve and recovered individuals after mRNA vaccination. <i>Science Immunology</i> , 2021, 6, .	5.6	556
69	Oral Mucosa, Saliva, and COVID-19 Infection in Oral Health Care. <i>Frontiers in Medicine</i> , 2021, 8, 656926.	1.2	29
70	Impact of Ribosome Activity on SARS-CoV-2 LNP - Based mRNA Vaccines. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 654866.	1.6	10
74	Comprehensive assessment of humoral response after Pfizer BNT162b2 mRNA Covid-19 vaccination: a three-case series. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 1585-1591.	1.4	47
76	Immune response induced by oral administration with a <i>Saccharomyces cerevisiae</i> -based SARS-CoV-2 vaccine in mice. <i>Microbial Cell Factories</i> , 2021, 20, 95.	1.9	23
77	SARS-CoV-2 nanobodies 2.0. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 202.	7.1	6
79	Evidence of the presence of SARS-CoV-2 virus in atmospheric air and surfaces of a dedicated COVID hospital. <i>Journal of Medical Virology</i> , 2021, 93, 5339-5349.	2.5	17
80	Clinical Characteristics of Foreign-Imported COVID-19 Cases in Xi'an, China. <i>International Journal of General Medicine</i> , 2021, Volume 14, 2069-2078.	0.8	1
81	Probiotic-Based Vaccines May Provide Effective Protection against COVID-19 Acute Respiratory Disease. <i>Vaccines</i> , 2021, 9, 466.	2.1	30
82	Tapping the immunological imprints to design chimeric SARS-CoV-2 vaccine for elderly population. <i>International Reviews of Immunology</i> , 2021, , 1-16.	1.5	6
83	Brief review of the mRNA vaccines COVID-19. <i>Inflammopharmacology</i> , 2021, 29, 645-649.	1.9	42
84	2019 Coronavirus disease (COVID-19): contribution of rheumatology. <i>Terapevticheskii Arkhiv</i> , 2021, 93, .	0.2	6
85	Design of an effective piezoelectric microcantilever biosensor for rapid detection of COVID-19. <i>Journal of Medical Engineering and Technology</i> , 2021, 45, 423-433.	0.8	13
86	Rotavirus as an Expression Platform of Domains of the SARS-CoV-2 Spike Protein. <i>Vaccines</i> , 2021, 9, 449.	2.1	17
87	Micronutrient therapy and effective immune response: a promising approach for management of COVID-19. <i>Infection</i> , 2021, 49, 1133-1147.	2.3	10
88	Understanding Post Entry Sorting of Adenovirus Capsids; A Chance to Change Vaccine Vector Properties. <i>Viruses</i> , 2021, 13, 1221.	1.5	9

#	ARTICLE	IF	CITATIONS
89	A Peptide Vaccine Candidate Tailored to Individuals' Genetics Mimics the Multi-Targeted T Cell Immunity of COVID-19 Convalescent Subjects. <i>Frontiers in Genetics</i> , 2021, 12, 684152.	1.1	10
92	An mRNA SARS-CoV-2 Vaccine Employing Charge-Altering Releasable Transporters with a TLR-9 Agonist Induces Neutralizing Antibodies and T Cell Memory. <i>ACS Central Science</i> , 2021, 7, 1191-1204.	5.3	34
94	Antibodies elicited by mRNA-1273 vaccination bind more broadly to the receptor binding domain than do those from SARS-CoV-2 infection. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	198
95	SARS-CoV-2 variants, spike mutations and immune escape. <i>Nature Reviews Microbiology</i> , 2021, 19, 409-424.	13.6	2,650
96	How May Obesity-Induced Oxidative Stress Affect the Outcome of COVID-19 Vaccines? Lesson Learned from the Infection. <i>Stresses</i> , 2021, 1, 119-122.	1.8	3
97	The Status and Prospects of Epstein-Barr Virus Prophylactic Vaccine Development. <i>Frontiers in Immunology</i> , 2021, 12, 677027.	2.2	23
98	Updates on the coronavirus disease 2019 vaccine and consideration in children. <i>Clinical and Experimental Pediatrics</i> , 2021, 64, 328-338.	0.9	8
99	SARS-CoV-2 RBD trimer protein adjuvanted with Alum-3M-052 protects from SARS-CoV-2 infection and immune pathology in the lung. <i>Nature Communications</i> , 2021, 12, 3587.	5.8	71
100	Virtual high throughput screening: Potential inhibitors for SARS-CoV-2 PLPRO and 3CLPRO proteases. <i>European Journal of Pharmacology</i> , 2021, 901, 174082.	1.7	30
101	Spike D614G A Candidate Vaccine Antigen Against Covid-19. <i>New England Journal of Medicine</i> , 2021, 384, 2349-2351.	13.9	12
102	De novo ssRNA Aptamers against the SARS-CoV-2 Main Protease: In Silico Design and Molecular Dynamics Simulation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6874.	1.8	8
103	Structural basis for enhanced infectivity and immune evasion of SARS-CoV-2 variants. <i>Science</i> , 2021, 373, 642-648.	6.0	211
105	p-cymene impairs SARS-CoV-2 and Influenza A (H1N1) viral replication: <i>in silico</i> predicted interaction with SARS-CoV-2 nucleocapsid protein and H1N1 nucleoprotein. <i>Pharmacology Research and Perspectives</i> , 2021, 9, e00798.	1.1	15
106	Common Variable Immunodeficiency Disorders, T-Cell Responses to SARS-CoV-2 Vaccines, and the Risk of Chronic COVID-19. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 3575-3583.	2.0	41
107	Full-Length Computational Model of the SARS-CoV-2 Spike Protein and Its Implications for a Viral Membrane Fusion Mechanism. <i>Viruses</i> , 2021, 13, 1126.	1.5	9
108	Structural basis of coronavirus E protein interactions with human PALS1 PDZ domain. <i>Communications Biology</i> , 2021, 4, 724.	2.0	37
109	Role of nanotechnology behind the success of mRNA vaccines for COVID-19. <i>Nano Today</i> , 2021, 38, 101142.	6.2	170
110	Post-vaccination cases of COVID-19 among healthcare workers at Siloam Teaching Hospital, Indonesia. <i>International Journal of Infectious Diseases</i> , 2021, 107, 268-270.	1.5	19

#	ARTICLE	IF	CITATIONS
111	Multiple Roles of SARS-CoV-2 N Protein Facilitated by Proteoform-Specific Interactions with RNA, Host Proteins, and Convalescent Antibodies. <i>Jacs Au</i> , 2021, 1, 1147-1157.	3.6	28
112	Machine Learning Reveals the Critical Interactions for SARS-CoV-2 Spike Protein Binding to ACE2. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5494-5502.	2.1	44
113	Fast-spreading SARS-CoV-2 variants: challenges to and new design strategies of COVID-19 vaccines. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 226.	7.1	103
115	A Summary of the SARS-CoV-2 Vaccines and Technologies Available or under Development. <i>Pathogens</i> , 2021, 10, 788.	1.2	46
116	Elicitation of Broadly Neutralizing Antibodies against B.1.1.7, B.1.351, and B.1.617.1 SARS-CoV-2 Variants by Three Prototype Strain-Derived Recombinant Protein Vaccines. <i>Viruses</i> , 2021, 13, 1421.	1.5	6
117	Vaccinations and Autoimmune Diseases. <i>Vaccines</i> , 2021, 9, 815.	2.1	45
120	A yeast-expressed RBD-based SARS-CoV-2 vaccine formulated with 3M-052-alum adjuvant promotes protective efficacy in non-human primates. <i>Science Immunology</i> , 2021, 6, .	5.6	53
121	Specific allelic discrimination of N501Y and other SARS-CoV-2 mutations by ddPCR detects B.1.1.7 lineage in Washington State. <i>Journal of Medical Virology</i> , 2021, 93, 5931-5941.	2.5	31
122	Antibodies Responses to SARS-CoV-2 in a Large Cohort of Vaccinated Subjects and Seropositive Patients. <i>Vaccines</i> , 2021, 9, 714.	2.1	25
123	Fusion Protein of Rotavirus VP6 and SARS-CoV-2 Receptor Binding Domain Induces T Cell Responses. <i>Vaccines</i> , 2021, 9, 733.	2.1	4
125	Lessons Learned from Cutting-Edge Immunoinformatics on Next-Generation COVID-19 Vaccine Research. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 2303-2311.	0.9	6
126	The SARS CoV-2 spike domain, RGD and integrin binding effect-relationship for vaccine design strategy. <i>Annals of Proteomics and Bioinformatics</i> , 2021, 5, 027-041.	1.0	0
127	ĐšĐ¼ŃĐĐ¼Đ½Đ°Đ²Ń-ŃĐŃfŃĐ½Đ,Đ¹ S-Đ°Đ½Ń,Đ,Đ³ĐµĐ½ ŃĐ° Đ¼Đ°ŃĐ°ĐµŃĐµŃ,ĐµĐ°Ń,Đ,Đ²Đ½Đ¼Ń-eĐ²Đ°Đ°ŃĐ,Đ½Đ°Đ°Đ		
128	A single dose of replication-competent VSV-vectored vaccine expressing SARS-CoV-2 S1 protects against virus replication in a hamster model of severe COVID-19. <i>Npj Vaccines</i> , 2021, 6, 91.	2.9	19
129	Coronavirus disease 2019 vaccines: perspectives and update. <i>Medical Journal Armed Forces India</i> , 2021, 77, S245-S249.	0.3	1
132	Secreted Expression of mRNA-Encoded Truncated ACE2 Variants for SARS-CoV-2 via Lipid-Like Nanoassemblies. <i>Advanced Materials</i> , 2021, 33, e2101707.	11.1	19
133	Polymersomes Decorated with the SARS-CoV-2 Spike Protein Receptor-Binding Domain Elicit Robust Humoral and Cellular Immunity. <i>ACS Central Science</i> , 2021, 7, 1368-1380.	5.3	21
134	Modulation of Host Immune Response Is an Alternative Strategy to Combat SARS-CoV-2 Pathogenesis. <i>Frontiers in Immunology</i> , 2021, 12, 660632.	2.2	12

#	ARTICLE	IF	CITATIONS
135	COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines. <i>Infectious Disease Reports</i> , 2021, 13, 685-699.	1.5	72
136	Antimicrobial immunotherapeutics: past, present and future. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 609-628.	1.1	1
137	Analysis of the dynamic relationship between immune profiles and the clinical features of patients with COVID-19. <i>Annals of Translational Medicine</i> , 2021, 9, 1118-1118.	0.7	3
138	Inhalable nanocatchers for SARS-CoV-2 inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
139	Potent Neutralizing Antibodies Elicited by RBD-Fc-Based COVID-19 Vaccine Candidate Adjuvanted by the Th2-Skewing iNKT Cell Agonist. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11554-11569.	2.9	9
140	An update review of globally reported SARS-CoV-2 vaccines in preclinical and clinical stages. <i>International Immunopharmacology</i> , 2021, 96, 107763.	1.7	35
141	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp13 helicase. <i>Biochemical Journal</i> , 2021, 478, 2405-2423.	1.7	46
142	The need for broadly protective COVID-19 vaccines: Beyond S-only approaches. <i>Vaccine</i> , 2021, 39, 4239-4241.	1.7	14
143	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp15 endoribonuclease. <i>Biochemical Journal</i> , 2021, 478, 2465-2479.	1.7	43
144	Scientists have favorable opinions on immunity certificates but raise concerns regarding fairness and inequality. <i>Scientific Reports</i> , 2021, 11, 14016.	1.6	19
146	The role of micronutrient and immunomodulation effect in the vaccine era of COVID-19. <i>Journal of the Chinese Medical Association</i> , 2021, 84, 821-826.	0.6	19
147	Vaccine Development against COVID-19: Study from Pre-Clinical Phases to Clinical Trials and Global Use. <i>Vaccines</i> , 2021, 9, 836.	2.1	15
148	Impact of the COVID-19 pandemic on the management of chronic noninfectious respiratory diseases. <i>Expert Review of Respiratory Medicine</i> , 2021, 15, 1035-1048.	1.0	14
152	DNA Vaccine Administered by Cationic Lipoplexes or by In Vivo Electroporation Induces Comparable Antibody Responses against SARS-CoV-2 in Mice. <i>Vaccines</i> , 2021, 9, 874.	2.1	16
154	SARS-CoV-2 variant prediction and antiviral drug design are enabled by RBD in vitro evolution. <i>Nature Microbiology</i> , 2021, 6, 1188-1198.	5.9	314
155	SARS-CoV-2 spike protein: pathogenesis, vaccines, and potential therapies. <i>Infection</i> , 2021, 49, 855-876.	2.3	61
156	SARS-CoV-2 Spike Pseudoviruses: A Useful Tool to Study Virus Entry and Address Emerging Neutralization Escape Phenotypes. <i>Microorganisms</i> , 2021, 9, 1744.	1.6	16
157	Safety and immunogenicity of a recombinant tandem-repeat dimeric RBD-based protein subunit vaccine (ZF2001) against COVID-19 in adults: two randomised, double-blind, placebo-controlled, phase 1 and 2 trials. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 1107-1119.	4.6	345

#	ARTICLE	IF	CITATIONS
158	An update on novel approaches for diagnosis and treatment of SARS-CoV-2 infection. <i>Cell and Bioscience</i> , 2021, 11, 164.	2.1	10
159	Humoral response to spike S1 and S2 and nucleocapsid proteins on microarray after SARS-CoV-2 infection. <i>Journal of Medical Virology</i> , 2022, 94, 178-185.	2.5	2
160	Potential for Developing Plant-Derived Candidate Vaccines and Biologics against Emerging Coronavirus Infections. <i>Pathogens</i> , 2021, 10, 1051.	1.2	18
161	Systematic profiling of SARS-CoV-2-specific IgG responses elicited by an inactivated virus vaccine identifies peptides and proteins for predicting vaccination efficacy. <i>Cell Discovery</i> , 2021, 7, 67.	3.1	29
164	Antibody-Mediated Neutralization of Authentic SARS-CoV-2 B.1.617 Variants Harboring L452R and T478K/E484Q. <i>Viruses</i> , 2021, 13, 1693.	1.5	69
165	Two doses of SARS-CoV-2 vaccination induce robust immune responses to emerging SARS-CoV-2 variants of concern. <i>Nature Communications</i> , 2021, 12, 5061.	5.8	150
166	SARS-CoV-2 Proteins Bind to Hemoglobin and Its Metabolites. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9035.	1.8	41
167	Neutralization of SARS-CoV-2 by highly potent, hyperthermostable, and mutation-tolerant nanobodies. <i>EMBO Journal</i> , 2021, 40, e107985.	3.5	69
168	Impact of Prior Infection on Severe Acute Respiratory Syndrome Coronavirus 2 Transmission in Syrian Hamsters. <i>Frontiers in Microbiology</i> , 2021, 12, 722178.	1.5	5
169	Artificial Intelligence in Surveillance, Diagnosis, Drug Discovery and Vaccine Development against COVID-19. <i>Pathogens</i> , 2021, 10, 1048.	1.2	45
170	Quantification of SARS-CoV-2 spike and nucleocapsid proteins using isotope dilution tandem mass spectrometry. <i>Vaccine</i> , 2021, 39, 5106-5115.	1.7	12
171	Emergency use of COVID-19 vaccines recommended by the World Health Organization (WHO) as of June 2021. <i>Drug Discoveries and Therapeutics</i> , 2021, 15, 222-224.	0.6	16
172	Novel Nested-Seq Approach for SARS-CoV-2 Real-Time Epidemiology and In-Depth Mutational Profiling in Wastewater. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8498.	1.8	11
173	Essential considerations during vaccine design against COVID-19 and review of pioneering vaccine candidate platforms. <i>International Immunopharmacology</i> , 2021, 97, 107679.	1.7	9
174	Disappearance of Seasonal Respiratory Viruses in Children Under Two Years Old During COVID-19 Pandemic: A Monocentric Retrospective Study in Milan, Italy. <i>Frontiers in Pediatrics</i> , 2021, 9, 721005.	0.9	38
175	Cell-Free Glycoengineering of the Recombinant SARS-CoV-2 Spike Glycoprotein. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 699025.	2.0	5
176	mRNA-based COVID-19 vaccines appear not to increase immune events in cancer patients receiving immune checkpoint inhibitors. <i>Future Virology</i> , 2021, , .	0.9	2
177	Parental psychological distress and attitudes towards COVID-19 vaccination: A cross-sectional survey in Shenzhen, China. <i>Journal of Affective Disorders</i> , 2021, 292, 552-558.	2.0	49

#	ARTICLE	IF	CITATIONS
178	Scientific premise for the involvement of neutrophil extracellular traps (NETs) in vaccine-induced thrombotic thrombocytopenia (VITT). <i>Journal of Leukocyte Biology</i> , 2021, , .	1.5	19
179	Persistent High Percentage of HLA-DR+CD38high CD8+ T Cells Associated With Immune Disorder and Disease Severity of COVID-19. <i>Frontiers in Immunology</i> , 2021, 12, 735125.	2.2	35
180	Fast and long-lasting immune response to S-trimer COVID-19 vaccine adjuvanted by PIKA. <i>Molecular Biomedicine</i> , 2021, 2, 29.	1.7	10
181	Identification of potential therapeutic targets and mechanisms of COVID-19 through network analysis and screening of chemicals and herbal ingredients. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	14
182	Will achieving herd immunity be a road to success to end the COVID-19 pandemic?. <i>Journal of Infection</i> , 2021, 83, 381-412.	1.7	22
183	The Endocannabinoid System as Prognostic Biomarker of the Obstructive Sleep Apnea Morbidity in COVID-19-Recovered Individuals. <i>Sleep and Vigilance</i> , 2021, 5, 205-211.	0.4	0
184	Targeting intra-viral conserved nucleocapsid (N) proteins as novel vaccines against SARS-CoVs. <i>Bioscience Reports</i> , 2021, 41, .	1.1	28
185	Plant-Expressed Receptor Binding Domain of the SARS-CoV-2 Spike Protein Elicits Humoral Immunity in Mice. <i>Vaccines</i> , 2021, 9, 978.	2.1	20
186	Pattern Recognition Proteins: First Line of Defense Against Coronaviruses. <i>Frontiers in Immunology</i> , 2021, 12, 652252.	2.2	13
187	RBD-homodimer, a COVID-19 subunit vaccine candidate, elicits immunogenicity and protection in rodents and nonhuman primates. <i>Cell Discovery</i> , 2021, 7, 82.	3.1	22
188	Emerging SARS-CoV-2 variant B.1.1.7 reduces neutralisation activity of antibodies against wild-type SARS-CoV-2. <i>Journal of Clinical Virology</i> , 2021, 142, 104912.	1.6	8
189	Assessment of adjuvantation strategy of lipid squalene nanoparticles for enhancing the immunogenicity of a SARS-CoV-2 spike subunit protein against COVID-19. <i>International Journal of Pharmaceutics</i> , 2021, 607, 121024.	2.6	9
190	Vaccinia virus-based vaccines confer protective immunity against SARS-CoV-2 virus in Syrian hamsters. <i>PLoS ONE</i> , 2021, 16, e0257191.	1.1	19
191	Humoral and cellular immunity and the safety of COVID-19 vaccines: a summary of data published by 21 May 2021. <i>International Immunology</i> , 2021, 33, 529-540.	1.8	28
192	COVID-19 vaccine candidates and vaccine development platforms available worldwide. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 675-682.	2.4	8
193	Vaccinomics: a future avenue for vaccine development against emerging pathogens. <i>Expert Review of Vaccines</i> , 2021, 20, 1561-1569.	2.0	18
197	A study protocol to prepare an RBD protein for vaccine against COVID-19. <i>F1000Research</i> , 0, 10, 943.	0.8	0
198	Generation of potent cellular and humoral immunity against SARS-CoV-2 antigens via conjugation to a polymeric glyco-adjuvant. <i>Biomaterials</i> , 2021, 278, 121159.	5.7	23

#	ARTICLE	IF	CITATIONS
199	Cross-reactive humoral immune responses against seasonal human coronaviruses in COVID-19 patients with different disease severities. <i>International Journal of Infectious Diseases</i> , 2021, 111, 68-75.	1.5	9
200	A one-step real-time RT-PCR assay for simultaneous typing of SARS-CoV-2 mutations associated with the E484K and N501Y spike protein amino-acid substitutions. <i>Journal of Virological Methods</i> , 2021, 296, 114242.	1.0	10
201	Neutralisation of ZF2001-elicited antisera to SARS-CoV-2 variants. <i>Lancet Microbe</i> , The, 2021, 2, e494.	3.4	45
202	Structure of SARS-CoV-2 spike protein. <i>Current Opinion in Virology</i> , 2021, 50, 173-182.	2.6	122
203	Know your enemy and know yourself – the case of SARS-CoV-2 host factors. <i>Current Opinion in Virology</i> , 2021, 50, 159-170.	2.6	9
204	From the environment to the cells: An overview on pivotal factors which affect spreading and infection in COVID-19 pandemic. <i>Environmental Research</i> , 2021, 201, 111555.	3.7	8
205	Cardiac arrest secondary to Covid19 pneumonia post full vaccination. <i>American Journal of Emergency Medicine</i> , 2021, 49, 257-258.	0.7	3
206	Performance evaluation of the Roche Elecsys Anti-SARS-CoV-2 S immunoassay. <i>Journal of Virological Methods</i> , 2021, 297, 114271.	1.0	88
207	COVID-19 vaccines: Current evidence and considerations. <i>Metabolism Open</i> , 2021, 12, 100124.	1.4	32
208	COVID-19 challenges: From SARS-CoV-2 infection to effective point-of-care diagnosis by electrochemical biosensing platforms. <i>Biochemical Engineering Journal</i> , 2021, 176, 108200.	1.8	17
209	TB or not to be: what specificities and impact do antibodies have during tuberculosis?. <i>Oxford Open Immunology</i> , 2021, 2, .	1.2	4
210	Recombinant chimpanzee adenovirus AdC7 expressing dimeric tandem-repeat spike protein RBD protects mice against COVID-19. <i>Emerging Microbes and Infections</i> , 2021, 10, 1574-1588.	3.0	18
211	A comprehensive overview of vaccines developed for pandemic viral pathogens over the past two decades including those in clinical trials for the current novel SARS-CoV-2. <i>RSC Advances</i> , 2021, 11, 20006-20035.	1.7	6
212	Structure of SARS-CoV-2 Spike Glycoprotein for Therapeutic and Preventive Target. <i>Immune Network</i> , 2021, 21, e8.	1.6	3
213	Updates on Coronavirus Disease-2019 Vaccine and Consideration in Children. <i>Pediatric Infection and Vaccine</i> , 2021, 28, 7.	0.1	7
214	The emerging SARS-CoV-2 variants of concern. <i>Therapeutic Advances in Infectious Disease</i> , 2021, 8, 204993612110243.	1.1	82
216	From Cold to Killer: How SARS-CoV-2 Evolved without Hemagglutinin Esterase to Agglutinate, Then Clot Blood Cells in Pulmonary and Systemic Microvasculature. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
217	COVID-19 Expands Its Territories from Humans to Animals. <i>China CDC Weekly</i> , 2021, 3, 855-858.	1.0	24

#	ARTICLE	IF	CITATIONS
218	Global Prevalence of Adaptive and Prolonged Infectionsâ€™ Mutations in the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. <i>Viruses</i> , 2021, 13, 1974.	1.5	9
219	Genetic diversity of SARS-CoV-2 in South America: demographic history and structuration signals. <i>Archives of Virology</i> , 2021, 166, 3357-3371.	0.9	3
220	Transcriptomic characteristics and impaired immune function of patients who retest positive for SARS-CoV-2 RNA. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 748-759.	1.5	10
221	Rapid development of analytical methods for evaluating pandemic vaccines: a COVID-19 perspective. <i>Bioanalysis</i> , 2021, 13, 1805-1826.	0.6	11
222	Spike Proteins of SARS-CoV-2 Induce Pathological Changes in Molecular Delivery and Metabolic Function in the Brain Endothelial Cells. <i>Viruses</i> , 2021, 13, 2021.	1.5	35
223	Spike-based COVID-19 immunization increases antibodies to nucleocapsid antigen. <i>Translational Research</i> , 2022, 240, 26-32.	2.2	12
224	Perceptions Regarding COVID-19 Vaccination Among a Representative Pakistani Population Coming to Tertiary Care Cardiac Hospital. <i>Cureus</i> , 2021, 13, e18654.	0.2	3
225	MonoklonÃ¡lis antitestek Ã©s egyÃ©b biolÃ³giai terÃ©piÃ¡k a COVIDâ€™19 kezelÃ©sÃ©re. <i>Scientia Et Securitas</i> , 2021, 2, 200-206.	0.1	0
226	A potent bispecific nanobody protects hACE2 mice against SARS-CoV-2 infection via intranasal administration. <i>Cell Reports</i> , 2021, 37, 109869.	2.9	59
227	WHO International Standard for evaluation of the antibody response to COVID-19 vaccines: call for urgent action by the scientific community. <i>Lancet Microbe</i> , The, 2022, 3, e235-e240.	3.4	108
228	Hallmarks of immune response in COVID-19: Exploring dysregulation and exhaustion. <i>Seminars in Immunology</i> , 2021, 55, 101508.	2.7	37
230	Distinct BCR repertoires elicited by SARS-CoV-2 RBD and S vaccinations in mice. <i>Cell Discovery</i> , 2021, 7, 91.	3.1	12
232	Single-cell profiling of proteins and chromatin accessibility using PHAGE-ATAC. <i>Nature Biotechnology</i> , 2022, 40, 374-381.	9.4	31
233	Knowledge about, attitude and acceptance towards, and predictors of intention to receive the COVID-19 vaccine among cancer patients in Eastern China: A cross-sectional survey. <i>Journal of Integrative Medicine</i> , 2022, 20, 34-44.	1.4	52
235	Structural Basis of a Human Neutralizing Antibody Specific to the SARS-CoV-2 Spike Protein Receptor-Binding Domain. <i>Microbiology Spectrum</i> , 2021, 9, e0135221.	1.2	13
236	Novel coronavirus pathogen in humans and animals: an overview on its social impact, economic impact, and potential treatments. <i>Environmental Science and Pollution Research</i> , 2021, 28, 68071-68089.	2.7	15
237	The trend of Hong Kong confirmed cases after starting COVID-19 vaccination plan. <i>Microbes and Infectious Diseases</i> , 2021, .	0.0	0
238	Nucleic Acid Vaccines for COVID-19: A Paradigm Shift in the Vaccine Development Arena. <i>Biologics</i> , 2021, 1, 337-356.	2.3	58

#	ARTICLE	IF	CITATIONS
239	SCovid: single-cell atlases for exposing molecular characteristics of COVID-19 across 10 human tissues. <i>Nucleic Acids Research</i> , 2022, 50, D867-D874.	6.5	28
241	GRAd-COV2, a gorilla adenovirus-based candidate vaccine against COVID-19, is safe and immunogenic in younger and older adults. <i>Science Translational Medicine</i> , 2022, 14, eabj1996.	5.8	18
242	Does the EU COVID Digital Certificate Strike a Reasonable Balance between Mobility Needs and Public Health?. <i>Medicina (Lithuania)</i> , 2021, 57, 1077.	0.8	9
243	In Silico and In Vivo Evaluation of SARS-CoV-2 Predicted Epitopes-Based Candidate Vaccine. <i>Molecules</i> , 2021, 26, 6182.	1.7	23
244	A pathogen-like antigen based vaccine confers immune protection against SARS-CoV-2 in non-human primates. <i>Cell Reports Medicine</i> , 2021, 2, 100448.	3.3	11
246	Spike Glycoprotein Is Central to Coronavirus Pathogenesis-Parallel Between m-CoV and SARS-CoV-2. <i>Annals of Neurosciences</i> , 2021, 28, 201-218.	0.9	7
247	Glycan engineering of the SARS-CoV-2 receptor-binding domain elicits cross-neutralizing antibodies for SARS-related viruses. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	17
248	COVID-19 Vaccine Booster: To Boost or Not to Boost. <i>Infectious Disease Reports</i> , 2021, 13, 924-929.	1.5	78
249	Factors associated with COVID-19 vaccination acceptance among industrial workers in the post-vaccination era: a large-scale cross-sectional survey in China. <i>Human Vaccines and Immunotherapeutics</i> , 2024, 17, 5069-5075.	1.4	8
250	SARS-CoV-2 host proteome interactions for antiviral drug discovery. <i>Molecular Systems Biology</i> , 2021, 17, e10396.	3.2	53
251	Development of recombinant COVID-19 vaccine based on CHO-produced, prefusion spike trimer and alum/CpG adjuvants. <i>Vaccine</i> , 2021, 39, 7001-7011.	1.7	20
252	Multicomponent vaccines to fight SARS-CoV-2 variants of concern. <i>Vaccine</i> , 2021, 39, 6969-6971.	1.7	4
253	An easy pipeline for one-step purification of SARS-CoV-2 nucleocapsid protein from insect cell suspension culture. <i>Journal of Virological Methods</i> , 2022, 299, 114341.	1.0	5
255	Science-based COVID-19 vaccine development. <i>National Science Review</i> , 2021, 8, nwab193.	4.6	17
256	Infection induced SARS-CoV-2 seroprevalence and heterogeneity of antibody responses in a general population cohort study in Catalonia Spain. <i>Scientific Reports</i> , 2021, 11, 21571.	1.6	16
257	Cross-reactivity of antibodies from non-hospitalized COVID-19 positive individuals against the native, B.1.351, B.1.617.2, and P.1 SARS-CoV-2 spike proteins. <i>Scientific Reports</i> , 2021, 11, 21601.	1.6	20
258	Co-Occurrence of SARS-CoV-2 Infection and Inactivated SARS-CoV-2 Vaccination among Healthcare Workers. <i>Case Reports in Infectious Diseases</i> , 2021, 2021, 1-4.	0.2	0
259	Mutation profile of SARS-CoV-2 spike protein and identification of potential multiple epitopes within spike protein for vaccine development against SARS-CoV-2. <i>VirusDisease</i> , 2021, 32, 703-726.	1.0	15

#	ARTICLE	IF	CITATIONS
260	RCSB Protein Data Bank resources for structure-facilitated design of mRNA vaccines for existing and emerging viral pathogens. <i>Structure</i> , 2022, 30, 55-68.e2.	1.6	10
261	Structural and functional insights into the spike protein mutations of emerging SARS-CoV-2 variants. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 7967-7989.	2.4	40
262	An insight into the simulation directed understanding of the mechanism in SARS CoV-2 N-CTD, dimer integrity, and RNA-binding: Identifying potential antiviral inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 13912-13924.	2.0	4
263	Evaluation of a Novel Multiplex Platform for Simultaneous Detection of IgG Antibodies Against the 4 Main SARS-CoV-2 Antigens. <i>Journal of applied laboratory medicine</i> , The, 2022, 7, 698-710.	0.6	3
265	Expression of Human ACE2 N-terminal Domain, Part of the Receptor for SARS-CoV-2, in Fusion With Maltose-Binding Protein, Ribonuclease I and Human RNase A. <i>Frontiers in Microbiology</i> , 2021, 12, 660149.	1.5	1
266	Safety and immunogenicity of inactivated COVID-19 vaccine in health care workers. <i>Journal of Medical Virology</i> , 2022, 94, 1442-1449.	2.5	23
267	Receptor-Binding Domain Proteins of SARS-CoV-2 Variants Elicited Robust Antibody Responses Cross-Reacting with Wild-Type and Mutant Viruses in Mice. <i>Vaccines</i> , 2021, 9, 1383.	2.1	4
268	The Importance of RNA-Based Vaccines in the Fight against COVID-19: An Overview. <i>Vaccines</i> , 2021, 9, 1345.	2.1	22
270	Carbon fullerene and nanotube are probable binders to multiple targets of SARS-CoV-2: Insights from computational modeling and molecular dynamic simulation studies. <i>Infection, Genetics and Evolution</i> , 2021, 96, 105155.	1.0	21
271	In-silico design of a multi-epitope for developing sero-diagnosis detection of SARS-CoV-2 using spike glycoprotein and nucleocapsid antigens. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2021, 10, 61.	1.2	7
272	The glycosylation in SARS-CoV-2 and its receptor ACE2. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 396.	7.1	111
273	Virus neutralisation by intracellular antibodies. <i>Seminars in Cell and Developmental Biology</i> , 2022, 126, 108-116.	2.3	8
274	SARS-CoV-2 Targets and COVID-19 Vaccines. <i>Covid</i> , 2021, 1, 608-621.	0.7	4
275	Herpetic Keratitis Preceded by COVID-19 Vaccination. <i>Vaccines</i> , 2021, 9, 1394.	2.1	16
276	Side Effects of COVID-19 Pfizer-BioNTech mRNA Vaccine in Children Aged 12-18 Years in Saudi Arabia. <i>Vaccines</i> , 2021, 9, 1297.	2.1	33
277	Integrative Multi-omics Landscape of Non-structural Protein 3 of Severe Acute Respiratory Syndrome Coronaviruses. <i>Genomics, Proteomics and Bioinformatics</i> , 2021, 19, 707-726.	3.0	8
278	Discussing the Efficacy and Safety of Covid-19 Vaccine Available in India- A Mini Review. <i>Shanghai Ligong Daxue Xuebao/Journal of University of Shanghai for Science and Technology</i> , 2021, 23, 330-343.	0.1	0
279	Interaction of Spike protein and lipid membrane of SARS-CoV-2 with Ursodeoxycholic acid, an in-silico analysis. <i>Scientific Reports</i> , 2021, 11, 22288.	1.6	8

#	ARTICLE	IF	CITATIONS
280	Complementary and alternative medicine during COVID-19 pandemic: What we have done. <i>Journal of Integrative Medicine</i> , 2022, 20, 1-3.	1.4	8
281	COVID-19 reinfection: the role of natural immunity, vaccines, and variants. <i>Journal of Community Hospital Internal Medicine Perspectives</i> , 2021, 11, 733-739.	0.4	22
282	Cross-neutralization of SARS-CoV-2 Kappa and Delta variants by inactivated vaccine-elicited serum and monoclonal antibodies. <i>Cell Discovery</i> , 2021, 7, 112.	3.1	14
283	The Viral Class II Membrane Fusion Machinery: Divergent Evolution from an Ancestral Heterodimer. <i>Viruses</i> , 2021, 13, 2368.	1.5	20
284	SARS-CoV-2 may affect the immune response via direct inhibition of T cell receptor: Mechanistic hypothesis and rationale. <i>Biochimie</i> , 2022, 195, 86-89.	1.3	4
286	Enhanced protective immunity against SARS-CoV-2 elicited by a VSV vector expressing a chimeric spike protein. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 389.	7.1	21
287	Previous COVID-19 Infection and Antibody Levels After Vaccination. <i>Frontiers in Public Health</i> , 2021, 9, 778243.	1.3	69
288	E484K and N501Y SARS-CoV 2 spike mutants Increase ACE2 recognition but reduce affinity for neutralizing antibody. <i>International Immunopharmacology</i> , 2022, 102, 108424.	1.7	31
289	Genome Characterization and Potential Risk Assessment of the Novel SARS-CoV-2 Variant Omicron (B.1.1.529). <i>Zoonoses</i> , 2021, 1, .	0.5	38
290	Exploring the COVID-19 vaccine candidates against SARS-CoV-2 and its variants: where do we stand and where do we go?. <i>Human Vaccines and Immunotherapeutics</i> , 2024, 17, 4714-4740.	1.4	16
291	Temporal variations in country-specific mutational profiles of SARS-CoV-2: effect on vaccine efficacy. <i>Future Virology</i> , 2021, 16, 805-819.	0.9	2
292	Comparison of Antibody Response Elicited by ChAdOx1 and BNT162b2 COVID-19 Vaccine. <i>Journal of Korean Medical Science</i> , 2021, 36, e311.	1.1	33
293	A rigorous framework for detecting SARS-CoV-2 spike protein mutational ensemble from genomic and structural features. <i>Current Research in Structural Biology</i> , 2021, 3, 290-300.	1.1	17
294	In Silico Screening of Potential Phytocompounds from Several Herbs against SARS-CoV-2 Indian Delta Variant B.1.617.2 to Inhibit the Spike Glycoprotein Trimer. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 665.	1.3	8
295	Mitigating Covid-19 in the face of emerging virus variants, breakthrough infections and vaccine hesitancy. <i>Journal of Autoimmunity</i> , 2022, 127, 102792.	3.0	96
296	A novel antibody against the furin cleavage site of SARS-CoV-2 spike protein: Effects on proteolytic cleavage and ACE2 binding. <i>Immunology Letters</i> , 2022, 242, 1-7.	1.1	4
297	Design, synthesis and inÂvitro evaluation of novel SARS-CoV-2 3CLpro covalent inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2022, 229, 114046.	2.6	41
298	From delta to Omicron: S1-RBD/S2 mutation/deletion equilibrium in SARS-CoV-2 defined variants. <i>Gene</i> , 2022, 814, 146134.	1.0	97

#	ARTICLE	IF	CITATIONS
299	Single-cell immunology of SARS-CoV-2 infection. <i>Nature Biotechnology</i> , 2022, 40, 30-41.	9.4	78
301	Clinical Utility of Elecsys Anti-SARS-CoV-2 S Assay in COVID-19 Vaccination: An Exploratory Analysis of the mRNA-1273 Phase 1 Trial. <i>Frontiers in Immunology</i> , 2021, 12, 798117.	2.2	42
302	SARS-CoV-2 mRNA Vaccine Breakthrough Infections in Fully Vaccinated Healthcare Personnel: A Systematic Review. <i>Tropical Medicine and Infectious Disease</i> , 2022, 7, 9.	0.9	14
303	Could SARS-CoV-2 Spike Protein Be Responsible for Long-COVID Syndrome?. <i>Molecular Neurobiology</i> , 2022, 59, 1850-1861.	1.9	76
304	The "LLQY" motif on SARS-CoV-2 spike protein affects S incorporation into virus particles. <i>Journal of Virology</i> , 2022, , jvi0189721.	1.5	1
305	Immunology and Technology of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Vaccines. <i>Pharmacological Reviews</i> , 2022, 74, 313-339.	7.1	9
306	Middle East Respiratory Syndrome coronavirus vaccine development: updating clinical studies using platform technologies. <i>Journal of Microbiology</i> , 2022, 60, 238-246.	1.3	5
308	Extra-Pulmonary Complications in SARS-CoV-2 Infection: A Comprehensive Multi Organ-System Review. <i>Microorganisms</i> , 2022, 10, 153.	1.6	27
309	Association of vitamin D status with COVID-19 and its severity. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 579-599.	2.6	47
310	Genomic surveillance of SARS-CoV-2 in the state of Delaware reveals tremendous genomic diversity. <i>PLoS ONE</i> , 2022, 17, e0262573.	1.1	6
311	Omicron Variant (B.1.1.529): Infectivity, Vaccine Breakthrough, and Antibody Resistance. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 412-422.	2.5	507
312	mRNA Vaccines in the COVID-19 Pandemic and Beyond. <i>Annual Review of Medicine</i> , 2022, 73, 17-39.	5.0	120
313	Mutational landscape and in silico structure models of SARS-CoV-2 spike receptor binding domain reveal key molecular determinants for virus-host interaction. <i>BMC Molecular and Cell Biology</i> , 2022, 23, 2.	1.0	10
314	Designing AbhiSCoVac - A single potential vaccine for all "corona culprits": Immunoinformatics and immune simulation approaches. <i>Journal of Molecular Liquids</i> , 2022, 351, 118633.	2.3	20
315	Omicron: the highly mutational COVID-19 variant with immune escape. <i>Pan African Medical Journal</i> , 2022, 41, 84.	0.3	2
317	Heterologous ChAdOx1 nCoV-19 and BNT162b2 prime-boost vaccination elicits potent neutralizing antibody responses and T cell reactivity against prevalent SARS-CoV-2 variants. <i>EBioMedicine</i> , 2022, 75, 103761.	2.7	104
318	Prediction of long-term kinetics of vaccine-elicited neutralizing antibody and time-varying vaccine-specific efficacy against the SARS-CoV-2 Delta variant by clinical endpoint. <i>BMC Medicine</i> , 2022, 20, 36.	2.3	17
319	Next Generation of Transgenic Plants: From Farming to Pharming. , 0, , .		5

#	ARTICLE	IF	CITATIONS
320	COVID-19: Non-invasive ventilation in hypoxemic acute respiratory failure. <i>International Journal of Preventive Medicine</i> , 2022, 13, 5.	0.2	0
322	SARS-CoV-2 variants preferentially emerge at intrinsically disordered protein sites helping immune evasion. <i>FEBS Journal</i> , 2022, 289, 4240-4250.	2.2	25
323	Quantifying the effect of government interventions and virus mutations on transmission advantage during COVID-19 pandemic. <i>Journal of Infection and Public Health</i> , 2022, 15, 338-342.	1.9	6
324	A comprehensive review on COVID-19 vaccines: development, effectiveness, adverse effects, distribution and challenges. <i>VirusDisease</i> , 2022, 33, 1-22.	1.0	47
325	Development of superior antibodies against the S-protein of SARS-Cov-2 using macrocyclic epitopes. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103631.	2.3	1
326	Efficacious nanomedicine track toward combating COVID-19. <i>Nanotechnology Reviews</i> , 2022, 11, 680-698.	2.6	4
327	Virus-specific editing identification approach reveals the landscape of A-to-I editing and its impacts on SARS-CoV-2 characteristics and evolution. <i>Nucleic Acids Research</i> , 2022, 50, 2509-2521.	6.5	23
328	Computational prediction of the effect of mutations in the receptor-binding domain on the interaction between SARS-CoV-2 and human ACE2. <i>Molecular Diversity</i> , 2022, 26, 3309-3324.	2.1	17
329	A human antibody reveals a conserved site on beta-coronavirus spike proteins and confers protection against SARS-CoV-2 infection. <i>Science Translational Medicine</i> , 2022, 14, eabi9215.	5.8	123
330	Respiratory mucosal delivery of next-generation COVID-19 vaccine provides robust protection against both ancestral and variant strains of SARS-CoV-2. <i>Cell</i> , 2022, 185, 896-915.e19.	13.5	189
331	COVID-19 vaccination in patients receiving allergen immunotherapy (AIT) or biologicals—EAACI recommendations. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2022, 77, 2313-2336.	2.7	12
332	Advanced Materials for SARS-CoV-2 Vaccines. <i>Advanced Materials</i> , 2022, 34, e2107781.	11.1	25
333	Loss of Detection of sgN Precedes Viral Abridged Replication in COVID-19-Affected Patients—A Target for SARS-CoV-2 Propagation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1941.	1.8	4
334	Inhaled heparin polysaccharide nanodecoy against SARS-CoV-2 and variants. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 3187-3194.	5.7	11
335	Early assessment of the safety and immunogenicity of a third dose (booster) of COVID-19 immunization in Chinese adults. <i>Frontiers of Medicine</i> , 2022, 16, 93-101.	1.5	21
336	SARS-CoV-2—Specific Vaccine Candidates; the Contribution of Structural Vaccinology. <i>Vaccines</i> , 2022, 10, 236.	2.1	14
337	COVID-19 and arrhythmia: An overview. <i>Journal of Cardiology</i> , 2022, 79, 468-475.	0.8	21
338	Potential of X-ray free-electron lasers for challenging targets in structure-based drug discovery. <i>Drug Discovery Today: Technologies</i> , 2021, 39, 101-110.	4.0	6

#	ARTICLE	IF	CITATIONS
340	Monoclonal antibody therapies in the management of SARS-CoV-2 infection. Expert Opinion on Investigational Drugs, 2022, 31, 41-58.	1.9	26
341	Immune responses in SARS-CoV-2, SARS-CoV, and MERS-CoV infections: A comparative review. International Journal of Preventive Medicine, 2022, 13, 45.	0.2	4
342	Inhibitor screening using microarray identifies the high capacity of neutralizing antibodies to Spike variants in SARS-CoV-2 infection and vaccination. Theranostics, 2022, 12, 2519-2534.	4.6	3
343	An Update on the Status of Vaccine Development for SARS-CoV-2 Including Variants. Practical Considerations for COVID-19 Special Populations. Clinical and Applied Thrombosis/Hemostasis, 2022, 28, 107602962110566.	0.7	13
344	A protein vaccine with Alum/c-GAMP/poly(I:C) rapidly boosts robust immunity against SARS-CoV-2 and variants of concern. Chemical Communications, 2022, 58, 3925-3928.	2.2	9
345	Design of a mutation-integrated trimeric RBD with broad protection against SARS-CoV-2. Cell Discovery, 2022, 8, 17.	3.1	23
346	A Novel Bacterial Protease Inhibitor Adjuvant in RBD-Based COVID-19 Vaccine Formulations Containing Alum Increases Neutralizing Antibodies, Specific Germinal Center B Cells and Confers Protection Against SARS-CoV-2 Infection in Mice. Frontiers in Immunology, 2022, 13, 844837.	2.2	13
347	Identification of a Novel Neutralizing Epitope on the N-Terminal Domain of the Human Coronavirus 229E Spike Protein. Journal of Virology, 2022, 96, JV0195521.	1.5	2
348	Exploring Data and Literature Currently Available on the COVID-19 Vaccines. Journal of Community Hospital Internal Medicine Perspectives, 2022, 12, 7-12.	0.4	1
349	Stem cell therapy for COVID-19 pneumonia. Molecular Biomedicine, 2022, 3, 6.	1.7	7
350	The mechanism underlying extrapulmonary complications of the coronavirus disease 2019 and its therapeutic implication. Signal Transduction and Targeted Therapy, 2022, 7, 57.	7.1	34
351	Lipid nanoparticle-encapsulated mRNA antibody provides long-term protection against SARS-CoV-2 in mice and hamsters. Cell Research, 2022, 32, 375-382.	5.7	21
352	Potent antibody immunity to SARS-CoV-2 variants elicited by a third dose of inactivated vaccine. Clinical and Translational Medicine, 2022, 12, e732.	1.7	14
353	Structural basis for SARS-CoV-2 Delta variant recognition of ACE2 receptor and broadly neutralizing antibodies. Nature Communications, 2022, 13, 871.	5.8	107
354	Analysis of the Neutralizing Activity of Antibodies Targeting Open or Closed SARS-CoV-2 Spike Protein Conformations. International Journal of Molecular Sciences, 2022, 23, 2078.	1.8	5
355	Inflammatory Sixth Nerve Palsy Post-COVID-19 Vaccination: Magnetic Resonance Imaging Findings. Neuro-Ophthalmology, 2022, 46, 314-318.	0.4	6
356	Enzyme-Linked Immunosorbent Assay: An Adaptable Methodology to Study SARS-CoV-2 Humoral and Cellular Immune Responses. Journal of Clinical Medicine, 2022, 11, 1503.	1.0	4
357	Cellular Immunity—The Key to Long-Term Protection in Individuals Recovered from SARS-CoV-2 and after Vaccination. Vaccines, 2022, 10, 442.	2.1	21

#	ARTICLE	IF	CITATIONS
360	Genetic Characteristics of Porcine Hemagglutinating Encephalomyelitis Coronavirus: Identification of Naturally Occurring Mutations Between 1970 and 2015. <i>Frontiers in Microbiology</i> , 2022, 13, 860851.	1.5	1
361	Short-Term Instantaneous Prophylaxis and Efficient Treatment Against SARS-CoV-2 in hACE2 Mice Conferred by an Intranasal Nanobody (Nb22). <i>Frontiers in Immunology</i> , 2022, 13, 865401.	2.2	8
363	Nanomedicines Targeting Respiratory Injuries for Pulmonary Disease Management. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	9
364	Current advances and challenges in COVID-19 vaccine development: from conventional vaccines to next-generation vaccine platforms. <i>Molecular Biology Reports</i> , 2022, 49, 4943-4957.	1.0	29
365	Identification of Linear B Cell Epitopes on CD2V Protein of African Swine Fever Virus by Monoclonal Antibodies. <i>Microbiology Spectrum</i> , 2022, 10, e0105221.	1.2	8
366	A tandem-repeat dimeric RBD protein-based covid-19 vaccine zf2001 protects mice and nonhuman primates. <i>Emerging Microbes and Infections</i> , 2022, 11, 1058-1071.	3.0	63
367	Exploratory assessment of serological tests to determine antibody titer against SARS-CoV-2: Appropriateness and limits. <i>Journal of Clinical Laboratory Analysis</i> , 2022, 36, e24363.	0.9	6
368	Omicron: What Makes the Latest SARS-CoV-2 Variant of Concern So Concerning?. <i>Journal of Virology</i> , 2022, 96, jvi0207721.	1.5	143
369	The Impact of Evolving SARS-CoV-2 Mutations and Variants on COVID-19 Vaccines. <i>MBio</i> , 2022, 13, e0297921.	1.8	117
370	The Immune Response to SARS-CoV-2: Mechanisms, Aging, Sequelae, and Vaccines. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, 2166-2185.	1.1	3
371	Safety and Efficacy of the Common Vaccines against COVID-19. <i>Vaccines</i> , 2022, 10, 513.	2.1	27
372	A rapid bead-based assay for screening of SARS-CoV-2 neutralizing antibodies. <i>Antibody Therapeutics</i> , 2022, 5, 100-110.	1.2	3
373	SARS-CoV-2: vaccinology and emerging therapeutics; challenges and future developments. <i>Therapeutic Delivery</i> , 2022, 13, 187-203.	1.2	8
374	Tuftsins: A Natural Molecule Against SARS-CoV-2 Infection. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 859162.	1.6	5
375	Global trends in COVID-19. , 2022, 1, 31-39.		8
376	Biotechnological Perspectives to Combat the COVID-19 Pandemic: Precise Diagnostics and Inevitable Vaccine Paradigms. <i>Cells</i> , 2022, 11, 1182.	1.8	10
377	Recent Advances in Delivery Systems for Genetic and Other Novel Vaccines. <i>Advanced Materials</i> , 2022, 34, e2107946.	11.1	10
378	COVID-19 vaccination: The road ahead. <i>Science</i> , 2022, 375, 1127-1132.	6.0	134

#	ARTICLE	IF	CITATIONS
379	Antibody Response to SARS-CoV-2 in Relation to the Contributing Factors in COVID-19 Patients. <i>Viral Immunology</i> , 2022, 35, 142-149.	0.6	3
380	Nanotechnology and COVID-19: quo vadis?. <i>Journal of Nanoparticle Research</i> , 2022, 24, 62.	0.8	6
381	More efforts are needed for background surveys of zoonotic coronaviruses in animals. <i>Cell Reports Medicine</i> , 2022, 3, 100524.	3.3	1
382	Call for a Global Vaccine Plan to Combat Current and Future Pandemics: One for ALL and ALL for One. <i>Open Respiratory Medicine Journal</i> , 2022, 16, .	1.3	0
383	Visualizing the efficacy of vaccination in different Indian states: a comparative account with other countries. <i>VirusDisease</i> , 2022, , 1-18.	1.0	0
384	Vaccination and immunotherapies in neuroimmunological diseases. <i>Nature Reviews Neurology</i> , 2022, 18, 289-306.	4.9	27
385	Heterologous BBIBP-CorV/ZF2001 vaccination augments neutralization against SARS-CoV-2 variants: A preliminary observation. <i>The Lancet Regional Health - Western Pacific</i> , 2022, 21, 100440.	1.3	5
386	COVID-19 Vaccination During Pregnancy. , 2022, 2, 1-7.		0
387	Fighting SARS-CoV-2 with structural biology methods. <i>Nature Methods</i> , 2022, 19, 381-383.	9.0	3
388	A New Wave of COVID-19 in 2021 with Unique Genetic Characters - Present Global Scenario and Beholding Onwards. <i>Infectious Disorders - Drug Targets</i> , 2022, 22, .	0.4	4
389	From Bench Side to Bed-Travelling on a Road to Get a Safe and Effective Vaccine against COVID-19, Day to Save the Life. <i>Recent Patents on Biotechnology</i> , 2022, 16, 2-5.	0.4	4
390	RBD trimer mRNA vaccine elicits broad and protective immune responses against SARS-CoV-2 variants. <i>IScience</i> , 2022, 25, 104043.	1.9	19
391	The basis of mink susceptibility to SARS-CoV-2 infection. <i>Journal of Applied Genetics</i> , 2022, 63, 543-555.	1.0	5
392	Kappa-RBD produced by glycoengineered <i>Pichia pastoris</i> elicited high neutralizing antibody titers against pseudoviruses of SARS-CoV-2 variants. <i>Virology</i> , 2022, 569, 56-63.	1.1	6
393	The Endocannabinoid System as a Biomarker for Diagnostic and Therapeutic Applications in Depression and Anxiety. <i>CNS and Neurological Disorders - Drug Targets</i> , 2023, 22, 417-430.	0.8	2
394	A global survey in the developmental landscape of possible vaccination strategies for COVID-19. <i>Clinical Immunology</i> , 2022, 237, 108958.	1.4	11
395	Messenger ribonucleic acid vaccines for severe acute respiratory syndrome coronavirus-2 â€“ a review. <i>Translational Research</i> , 2022, 242, 1-19.	2.2	3
396	The SARS-CoV-2 spike residues 616/644 and 1138/1169 delineate two antibody epitopes in COVID-19 mRNA COMIRNATY vaccine (Pfizer/BioNTech). <i>Scientific Reports</i> , 2022, 12, 5999.	1.6	3

#	ARTICLE	IF	CITATIONS
397	In-silico genomic landscape characterization and evolution of SARS-CoV-2 variants isolated in India shows significant drift with high frequency of mutations. Saudi Journal of Biological Sciences, 2022, 29, 3494-3501.	1.8	2
398	Discovery of 4- ² -O-methylscutellarein as a potent SARS-CoV-2 main protease inhibitor. Biochemical and Biophysical Research Communications, 2022, 604, 76-82.	1.0	9
399	Self-amplifying mRNA SARS-CoV-2 vaccines raise cross-reactive immune response to variants and prevent infection in animal models. Molecular Therapy - Methods and Clinical Development, 2022, 25, 225-235.	1.8	12
400	Microbes, Clinical trials, Drug Discovery, and Vaccine Development: The Current Perspectives. Borneo Journal of Pharmacy, 2021, 4, 311-323.	0.1	3
401	Sudden Cardiac Death Caused by Cardiac Small Vessel Vasculitis after COVID-19 Vaccination (BNT162b2) Tj ETQq0,0,0 rgBT /Overlock 1	0.1	2
405	A Narrative Review of COVID-19 Vaccines. Vaccines, 2022, 10, 62.	2.1	40
406	Heterologous prime-boost immunizations with chimpanzee adenoviral vectors elicit potent and protective immunity against SARS-CoV-2 infection. Cell Discovery, 2021, 7, 123.	3.1	10
407	Pediatric Endoscopy During COVID-19 Times. Frontiers in Pediatrics, 2021, 9, 750717.	0.9	1
408	Functionalized Terpolymer-Brush-Based Biointerface with Improved Antifouling Properties for Ultra-Sensitive Direct Detection of Virus in Crude Clinical Samples. ACS Applied Materials & Interfaces, 2021, 13, 60612-60624.	4.0	19
409	Aptamer Sandwich Assay for the Detection of SARS-CoV-2 Spike Protein Antigen. ACS Omega, 2021, 6, 35657-35666.	1.6	27
410	Adapting Serosurveys for the SARS-CoV-2 Vaccine Era. Open Forum Infectious Diseases, 2022, 9, ofab632.	0.4	30
411	COVID-19 Pandemic: Outbreak, Potential Vaccines And Medications. Russian Open Medical Journal, 2021, 10, .	0.1	0
412	Effectiveness of COVID-19 Vaccines against Delta (B.1.617.2) Variant: A Systematic Review and Meta-Analysis of Clinical Studies. Vaccines, 2022, 10, 23.	2.1	37
413	Vaccination Opportunities in Multiple Sclerosis Patients Treated with Cladribine Tablets. Current Neuropharmacology, 2022, 20, 1811-1815.	1.4	1
414	High-Yield Production of Receptor Binding Domain of SARS-CoV-2 Linked to Bacterial Flagellin in Plants Using Self-Replicating Viral Vector pEff. Plants, 2021, 10, 2682.	1.6	10
415	Expression of SARS-CoV-2 Spike Protein Receptor Binding Domain on Recombinant B. subtilis on Spore Surface: A Potential COVID-19 Oral Vaccine Candidate. Vaccines, 2022, 10, 2.	2.1	7
416	Aptamers for SARS-CoV-2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. Analysis & Sensing, 2022, 2, .	1.1	17
418	Dermal Delivery of a SARS-CoV-2 Subunit Vaccine Induces Immunogenicity against Variants of Concern. Vaccines, 2022, 10, 578.	2.1	7

#	ARTICLE	IF	CITATIONS
419	Heparanase Blockade as a Novel Dual-Targeting Therapy for COVID-19. <i>Journal of Virology</i> , 2022, 96, e0005722.	1.5	14
420	Altered Expression of ACE2 and Co-receptors of SARS-CoV-2 in the Gut Mucosa of the SIV Model of HIV/AIDS. <i>Frontiers in Microbiology</i> , 2022, 13, 879152.	1.5	0
421	SARS-CoV-2 Antinucleocapsid Antibody Response of mRNA and Inactivated Virus Vaccines Compared to Unvaccinated Individuals. <i>Vaccines</i> , 2022, 10, 643.	2.1	8
422	COVID-19 Vaccines: Current and Future Perspectives. <i>Vaccines</i> , 2022, 10, 608.	2.1	26
423	The Importance of Vaccination in the Context of the COVID-19 Pandemic: A Brief Update Regarding the Use of Vaccines. <i>Vaccines</i> , 2022, 10, 591.	2.1	27
424	Robust Mutation Profiling of SARS-CoV-2 Variants from Multiple Raw Illumina Sequencing Data with Cloud Workflow. <i>Genes</i> , 2022, 13, 686.	1.0	7
425	Multimodal Benefits of Exercise in Patients With Multiple Sclerosis and COVID-19. <i>Frontiers in Physiology</i> , 2022, 13, 783251.	1.3	3
426	Personality Effects on Chinese Public Preference for the COVID-19 Vaccination: Discrete Choice Experiment and Latent Profile Analysis Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4842.	1.2	7
427	Oral Immunization of Mice with Cell Extracts from Recombinant <i>Lactococcus lactis</i> Expressing SARS-CoV-2 Spike Protein. <i>Current Microbiology</i> , 2022, 79, 167.	1.0	6
428	Designing and characterization of a SARS-CoV-2 immunogen with receptor binding motif grafted on a protein scaffold: An epitope-focused vaccine approach. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1359-1367.	3.6	3
429	The Case for Acquired Immunity as a Strategy to Thwart SARS-CoV-2 Virus Infection. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2022, 41, 51-52.	0.8	0
430	COVID-19 serological evaluation in a cohort of Vaccinated and Seropositive healthcare workers. <i>Acta Biomedica</i> , 2021, 92, e2021415.	0.2	4
431	Expression of Human ACE2 N-terminal Domain, Part of the Receptor for SARS-CoV-2, in Fusion With Maltose-Binding Protein, <i>E. coli</i> Ribonuclease I and Human RNase A. <i>Frontiers in Microbiology</i> , 2021, 12, 660149.	1.5	1
432	Proposed protocol for the investigation of the safety and efficacy of the COVID-19 vaccine for patients with psychosis, with pilot safety findings from a Chinese psychiatrist's self-experiment.. <i>American Journal of Translational Research (discontinued)</i> , 2022, 14, 2063-2072.	0.0	0
434	COVID-19 vaccines and coronavirus 19 variants including alpha, delta, and omicron: present status and future directions. , 0, 2, .		7
435	The E484K Substitution in a SARS-CoV-2 Spike Protein Subunit Vaccine Resulted in Limited Cross-Reactive Neutralizing Antibody Responses in Mice. <i>Viruses</i> , 2022, 14, 854.	1.5	5
437	Protective prototype-Beta and Delta-Omicron chimeric RBD-dimer vaccines against SARS-CoV-2. <i>Cell</i> , 2022, 185, 2265-2278.e14.	13.5	77
438	Vaccines for COVID-19: A Systematic Review of Immunogenicity, Current Development, and Future Prospects. <i>Frontiers in Immunology</i> , 2022, 13, 843928.	2.2	25

#	ARTICLE	IF	CITATIONS
439	One Solution for All: Searching for Universal Aptamers for Constantly Mutating Spike Proteins of SARS-CoV-2. <i>ChemMedChem</i> , 2022, 17, .	1.6	7
440	Recent developments in SARS-CoV-2 vaccines: A systematic review of the current studies. <i>Reviews in Medical Virology</i> , 2023, 33, e2359.	3.9	17
441	Mutations in spike protein T cell epitopes of SARS-COV-2 variants: Plausible influence on vaccine efficacy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166432.	1.8	8
442	Adaptive Immune Responses and Immunity to SARS-CoV-2. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	39
443	COVID-19: Main findings after a year and half of unease and the proper scientific progress (Review). <i>Experimental and Therapeutic Medicine</i> , 2022, 23, .	0.8	5
444	Genetic and Structural Analysis of SARS-CoV-2 Spike Protein for Universal Epitope Selection. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	7
445	Acute Onset of Remitting Seronegative Symmetrical Synovitis With Pitting Edema (RS3PE) Two Weeks After COVID-19 Vaccination With mRNA-1273 With Possible Activation of Parvovirus B19: A Case Report With Literature Review. <i>Cureus</i> , 2022, , .	0.2	3
446	COVID-19 vaccine development: milestones, lessons and prospects. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 146.	7.1	153
447	Efficacy and Safety of the RBD-Dimer-Based Covid-19 Vaccine ZF2001 in Adults. <i>New England Journal of Medicine</i> , 2022, 386, 2097-2111.	13.9	147
448	A Review of Different Vaccines and Strategies to Combat COVID-19. <i>Vaccines</i> , 2022, 10, 737.	2.1	8
449	BCG-Based Vaccines Elicit Antigen-Specific Adaptive and Trained Immunity against SARS-CoV-2 and Andes orthohantavirus. <i>Vaccines</i> , 2022, 10, 721.	2.1	12
450	Development of DNA Vaccine Candidate against SARS-CoV-2. <i>Viruses</i> , 2022, 14, 1049.	1.5	7
451	Potential of Microneedle Systems for COVID-19 Vaccination: Current Trends and Challenges. <i>Pharmaceutics</i> , 2022, 14, 1066.	2.0	11
452	A comprehensive SARS-CoV-2 and COVID-19 review, Part 1: Intracellular overdrive for SARS-CoV-2 infection. <i>European Journal of Human Genetics</i> , 2022, 30, 889-898.	1.4	30
453	The chimera of S1 and N proteins of SARS-CoV-2: can it be a potential vaccine candidate for COVID-19?. <i>Expert Review of Vaccines</i> , 2022, 21, 1071-1086.	2.0	3
455	Influence of SARS-CoV-2 inactivation by different chemical reagents on the humoral response evaluated in a murine model. <i>Molecular Immunology</i> , 2022, 147, 199-208.	1.0	4
456	Determinants of Spike Infectivity, Processing and Neutralization in SARS-CoV-2 Omicron Subvariants BA.1 and BA.2. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
457	COVID-19 management landscape: A need for an affordable platform to manufacture safe and efficacious biotherapeutics and prophylactics for the developing countries. <i>Vaccine</i> , 2022, 40, 5302-5312.	1.7	5

#	ARTICLE	IF	CITATIONS
458	Immediate Hypersensitivity Reactions Induced by COVID-19 Vaccines: Current Trends, Potential Mechanisms and Prevention Strategies. <i>Biomedicines</i> , 2022, 10, 1260.	1.4	6
459	Safety of COVID-19 vaccines in patients with non-communicable diseases: a protocol for systematic review and meta-analysis of randomised controlled trials. <i>BMJ Open</i> , 2022, 12, e057233.	0.8	0
462	Comprehensive narrative review of real-world COVID-19 vaccines: viewpoints and opportunities. <i>Medical Review</i> , 2022, 2, 169-196.	0.3	5
463	SARS-CoV-2 variants and COVID-19 vaccines: Current challenges and future strategies. <i>International Reviews of Immunology</i> , 2023, 42, 393-414.	1.5	26
464	Kinetics of the Neutralizing and Spike SARS-CoV-2 Antibodies following the Sinovac Inactivated Virus Vaccine Compared to the Pfizer mRNA Vaccine in Singapore. <i>Antibodies</i> , 2022, 11, 38.	1.2	4
465	Functional properties of the spike glycoprotein of the emerging SARS-CoV-2 variant B.1.1.529. <i>Cell Reports</i> , 2022, 39, 110924.	2.9	20
466	A Multivalent Vaccine Based on Ferritin Nanocage Elicits Potent Protective Immune Responses against SARS-CoV-2 Mutations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6123.	1.8	9
467	Transchromosomal bovine-derived broadly neutralizing antibodies as potent biotherapeutics to counter important emerging viral pathogens with a special focus on SARS-CoV-2, MERS-CoV, Ebola, Zika, HIV-1, and influenza A virus. <i>Journal of Medical Virology</i> , 2022, 94, 4599-4610.	2.5	6
468	Mapping of SARS-CoV-2 spike protein evolution during the first and second waves of COVID-19 infections in India. <i>Future Virology</i> , 2022, 17, 557-575.	0.9	2
470	Antimicrobial Resistance in the COVID-19 Landscape: Is There an Opportunity for Anti-Infective Antibodies and Antimicrobial Peptides?. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	15
471	Impact of ChAdOx1 nCoV-19 (Covishield, C) Vaccination: How Long Will It Persist?. <i>International Journal of Microbiology</i> , 2022, 2022, 1-7.	0.9	1
472	Success of Current COVID-19 Vaccine Strategies vs. the Epitope Topology of SARS-CoV-2 Spike Protein-Receptor Binding Domain (RBD): A Computational Study of RBD Topology to Guide Future Vaccine Design. <i>Vaccines</i> , 2022, 10, 841.	2.1	0
473	Preclinical study of formulated recombinant nucleocapsid protein, the receptor binding domain of the spike protein, and truncated spike (S1) protein as vaccine candidates against COVID-19 in animal models. <i>Molecular Immunology</i> , 2022, 149, 107-118.	1.0	2
474	Imaging Severity COVID-19 Assessment in Vaccinated and Unvaccinated Patients: Comparison of the Different Variants in a High Volume Italian Reference Center. <i>Journal of Personalized Medicine</i> , 2022, 12, 955.	1.1	9
475	Variation in the Humoral Immune Response Induced by the Administration of the BNT162b2 Pfizer/BioNTech Vaccine: A Systematic Review. <i>Vaccines</i> , 2022, 10, 909.	2.1	6
476	Structural basis of human ACE2 higher binding affinity to currently circulating Omicron SARS-CoV-2 sub-variants BA.2 and BA.1.1. <i>Cell</i> , 2022, 185, 2952-2960.e10.	13.5	96
477	Adjuvant-Protein Conjugate Vaccine with Built-In TLR7 Agonist on S1 Induces Potent Immunity against SARS-CoV-2 and Variants of Concern. <i>ACS Infectious Diseases</i> , 2022, 8, 1367-1375.	1.8	7
478	Codelivery of SARS-CoV-2 Prefusion-Spike Protein with CBLB502 by a Dual-Chambered Ferritin Nanocarrier Potentiates Systemic and Mucosal Immunity. <i>ACS Applied Bio Materials</i> , 2022, 5, 3329-3337.	2.3	1

#	ARTICLE	IF	CITATIONS
479	Prognostic Value of SARS-CoV-2 Anti-RBD IgG Antibody Quantitation on Clinical Outcomes in Hospitalized COVID-19 Patients. <i>International Journal of General Medicine</i> , 0, Volume 15, 5693-5700.	0.8	1
480	COVID-19 exit strategy during vaccine implementation: a balance between social distancing and herd immunity. <i>Archives of Virology</i> , 0, , .	0.9	1
481	Rapid evaluation of COVID-19 vaccine effectiveness against symptomatic infection with SARS-CoV-2 variants by analysis of genetic distance. <i>Nature Medicine</i> , 2022, 28, 1715-1722.	15.2	29
482	Overview of SARS-CoV-2 and possible targets for the management of COVID-19 infections. <i>Coronaviruses</i> , 2022, 03, .	0.2	0
483	Induction of Broadly Cross-Reactive Antibody Responses to SARS-CoV-2 Variants by S1 Nanoparticle Vaccines. <i>Journal of Virology</i> , 0, , .	1.5	3
485	Intranasal vaccination of hamsters with a Newcastle disease virus vector expressing the S1 subunit protects animals against SARS-CoV-2 disease. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
486	Nanoarchitectonics: role of nanomaterials in vaccination strategies for curbing SARS-CoV-2/COVID-19. <i>Nanofabrication</i> , 0, 7, .	1.1	0
487	Rapid and accurate identification of SARS-CoV-2 Omicron variants using droplet digital PCR (RT-ddPCR). <i>Journal of Clinical Virology</i> , 2022, 154, 105218.	1.6	12
488	Seasonal coronaviruses and SARS-CoV-2: effects of preexisting immunity during the COVID-19 pandemic. <i>Journal of Zhejiang University: Science B</i> , 2022, 23, 451-460.	1.3	7
489	A modified porous silicon microparticle potentiates protective systemic and mucosal immunity for SARS-CoV-2 subunit vaccine. <i>Translational Research</i> , 2022, 249, 13-27.	2.2	5
490	Advances in nanotechnology application in biosafety materials: A crucial response to COVID-19 pandemic. <i>Biosafety and Health</i> , 2022, 4, 347-363.	1.2	2
491	Antigen-adjuvant interactions, stability, and immunogenicity profiles of a SARS-CoV-2 receptor-binding domain (RBD) antigen formulated with aluminum salt and CpG adjuvants. <i>Human Vaccines and Immunotherapeutics</i> , 2022, 18, .	1.4	12
493	A one-year follow-up study on dynamic changes of leukocyte subsets and virus-specific antibodies of patients with COVID-19 in Sichuan, China. <i>International Journal of Medical Sciences</i> , 2022, 19, 1122-1130.	1.1	0
494	Ångstrom-scale silver particles potently combat SARS-CoV-2 infection by suppressing the ACE2 expression and inflammatory responses. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5454-5464.	2.9	4
495	Molecular characteristics, immune evasion, and impact of SARS-CoV-2 variants. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	7.1	59
496	Therapeutic Targeting of Innate Immune Receptors Against SARS-CoV-2 Infection. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	3
497	Short-Term Side Effects and SARS-CoV-2 Infection after COVID-19 Pfizerâ€BioNTech Vaccine in Children Aged 5â€11 Years: An Italian Real-World Study. <i>Vaccines</i> , 2022, 10, 1056.	2.1	12
498	The humoral response and antibodies against SARS-CoV-2 infection. <i>Nature Immunology</i> , 2022, 23, 1008-1020.	7.0	84

#	ARTICLE	IF	CITATIONS
499	Neutralizing Potency of Prototype and Omicron RBD mRNA Vaccines Against Omicron Variant. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
500	A panel of nanobodies recognizing conserved hidden clefts of all SARS-CoV-2 spike variants including Omicron. <i>Communications Biology</i> , 2022, 5, .	2.0	26
501	Advances in Infectious Disease Vaccine Adjuvants. <i>Vaccines</i> , 2022, 10, 1120.	2.1	32
502	Assessment of hypokalemia and clinical prognosis in Patients with COVID-19 in Yangzhou, China. <i>PLoS ONE</i> , 2022, 17, e0271132.	1.1	3
503	The durability of natural infection and vaccine-induced immunity against future infection by SARS-CoV-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	47
505	Relatively rapid evolution rates of SARS-CoV-2 spike gene at the primary stage of massive vaccination. <i>Biosafety and Health</i> , 2022, 4, 228-233.	1.2	6
506	Immunogenicity, efficacy and safety of COVID-19 vaccines: an update of data published by 31 December 2021. <i>International Immunology</i> , 2022, 34, 595-607.	1.8	19
507	The First Approved COVID-19 Vaccines: The Road to Cancer Vaccines. <i>International Journal of Translational Medicine</i> , 2022, 2, 309-331.	0.1	0
508	Presumably Corneal Graft Rejection after COVID-19 Vaccination. <i>Case Reports in Ophthalmology</i> , 2022, 13, 562-569.	0.3	6
509	Elevated risk of infection with SARS-CoV-2 Beta, Gamma, and Delta variants compared with Alpha variant in vaccinated individuals. <i>Science Translational Medicine</i> , 2023, 15, .	5.8	22
510	Evolution of the SARS-CoV-2 omicron variants BA.1 to BA.5: Implications for immune escape and transmission. <i>Reviews in Medical Virology</i> , 2022, 32, .	3.9	276
511	Temperature-Responsive Liposome-Linked Immunosorbent Assay for the Rapid Detection of SARS-CoV-2 Using Immunoliposomes. <i>ACS Omega</i> , 2022, 7, 26936-26944.	1.6	3
512	Intranasal vaccination with lipid-conjugated immunogens promotes antigen transmucosal uptake to drive mucosal and systemic immunity. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	38
513	Determinants of Spike infectivity, processing, and neutralization in SARS-CoV-2 Omicron subvariants BA.1 and BA.2. <i>Cell Host and Microbe</i> , 2022, 30, 1255-1268.e5.	5.1	45
514	A Novel Development of Sarcoidosis Following COVID-19 Vaccination and a Literature Review. <i>Internal Medicine</i> , 2022, 61, 3101-3106.	0.3	13
515	In Silico Analysis of the Effects of Omicron Spike Amino Acid Changes on the Interactions with Human Proteins. <i>Molecules</i> , 2022, 27, 4827.	1.7	2
516	Effectiveness of SARS-CoV-2 Vaccines for Short- and Long-Term Immunity: A General Overview for the Pandemic Contrast. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8485.	1.8	6
517	BNT162b2 booster after heterologous prime-boost vaccination induces potent neutralizing antibodies and T cell reactivity against SARS-CoV-2 Omicron BA.1 in young adults. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	16

#	ARTICLE	IF	CITATIONS
521	Global pandemic perspectives: public health, mental health, and lessons for the future. <i>Lancet</i> , The, 2022, 400, e3-e7.	6.3	16
522	Promotion of neutralizing antibody-independent immunity to wild-type and SARS-CoV-2 variants of concern using an RBD-Nucleocapsid fusion protein. <i>Nature Communications</i> , 2022, 13, .	5.8	12
523	Monitoring of Both Humoral and Cellular Immunities Could Early Predict COVID-19 Vaccine Efficacy Against the Different SARS-CoV2 Variants. <i>Journal of Clinical Immunology</i> , 2023, 43, 31-45.	2.0	4
524	Protective antigenic epitopes revealed by immunosignatures after three doses of inactivated SARS-CoV-2 vaccine. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	2
525	A study protocol to prepare an RBD protein for vaccine against COVID-19. <i>F1000Research</i> , 0, 10, 943.	0.8	0
526	Broadly neutralizing antibodies to SARS-related viruses can be readily induced in rhesus macaques. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	15
527	Hybrid Immunity Shifts the Fc-Effector Quality of SARS-CoV-2 mRNA Vaccine-Induced Immunity. <i>MBio</i> , 2022, 13, .	1.8	18
528	Immunogenicity and safety of a RBD vaccine against SARS-CoV-2 in a murine model. <i>Travel Medicine and Infectious Disease</i> , 2022, 49, 102427.	1.5	0
529	Omicron (B.1.1.529) - A new heavily mutated variant: Mapped location and probable properties of its mutations with an emphasis on S-glycoprotein. <i>International Journal of Biological Macromolecules</i> , 2022, 219, 980-997.	3.6	28
530	From vaccines to nanovaccines: A promising strategy to revolutionize rheumatoid arthritis treatment. <i>Journal of Controlled Release</i> , 2022, 350, 107-121.	4.8	9
531	Targeted therapy in Coronavirus disease 2019 (COVID-19): Implication from cell and gene therapy to immunotherapy and vaccine. <i>International Immunopharmacology</i> , 2022, 111, 109161.	1.7	9
532	Host genetic diversity and genetic variations of SARS-CoV-2 in COVID-19 pathogenesis and the effectiveness of vaccination. <i>International Immunopharmacology</i> , 2022, 111, 109128.	1.7	9
533	BBIBP-CorV Vaccination Reduces COVID-19 Severity Rate and Accelerates Anti-Viral Antibody Responses in Heterologous Omicron Infection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
534	Salivary SARS-CoV-2 antibody detection using S1-RBD protein-immobilized 3D melt electrowritten poly(μ -caprolactone) scaffolds. <i>RSC Advances</i> , 2022, 12, 24849-24856.	1.7	7
535	Humoral Immune Response in SARS-CoV-2 Infection and Its Therapeutic Relevance. , 2022, , 19-29.		0
536	Computational biology and biosensors as surveillance tools for emerging and re-emerging infectious diseases. , 2022, , 419-441.		0
537	Analytical performances of different diagnostic methods for SARS-CoV-2 virus - A review. <i>Sensors International</i> , 2022, 3, 100197.	4.9	2
538	Antibody Avidity and Neutralizing Response against SARS-CoV-2 Omicron Variant after Infection or Vaccination. <i>Journal of Immunology Research</i> , 2022, 2022, 1-9.	0.9	11

#	ARTICLE	IF	CITATIONS
541	A Quantitative ELISA to Detect Anti-SARS-CoV-2 Spike IgG Antibodies in Infected Patients and Vaccinated Individuals. <i>Microorganisms</i> , 2022, 10, 1812.	1.6	2
542	SARS-CoV-2 Invasion and Pathological Links to Prion Disease. <i>Biomolecules</i> , 2022, 12, 1253.	1.8	7
543	A replication-competent smallpox vaccine LC16m81 [™] -based COVID-19 vaccine. <i>Emerging Microbes and Infections</i> , 2022, 11, 2359-2370.	3.0	5
544	mRNA vaccines expressing homo-prototype/Omicron and hetero-chimeric RBD-dimers against SARS-CoV-2. <i>Cell Research</i> , 2022, 32, 1022-1025.	5.7	10
545	Drug repurposing and sequence analysis in S-glycoprotein variants reveals critical signature patterns and destabilization of receptor-binding domain in omicron variant. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 7931-7948.	2.0	0
547	Towards the development of an epitope-focused vaccine for SARS-CoV-2. <i>Vaccine</i> , 2022, 40, 6489-6498.	1.7	3
548	Structure-based neutralizing mechanisms for SARS-CoV-2 antibodies. <i>Emerging Microbes and Infections</i> , 2022, 11, 2412-2422.	3.0	10
549	SARS-CoV-2 Variant Surveillance in Genomic Medicine Era. <i>Infectious Diseases</i> , 0, , .	4.0	0
550	A study protocol to prepare an RBD protein for vaccine against COVID-19. <i>F1000Research</i> , 0, 10, 943.	0.8	0
551	Correlation of gut microbiota and metabolic functions with the antibody response to the BBIBP-CoV vaccine. <i>Cell Reports Medicine</i> , 2022, 3, 100752.	3.3	14
552	Enhanced antibody responses in fully vaccinated individuals against pan-SARS-CoV-2 variants following Omicron breakthrough infection. <i>Cell Reports Medicine</i> , 2022, 3, 100764.	3.3	16
553	Designing multi-epitope based peptide vaccine targeting spike protein SARS-CoV-2 B.1.1.529 (Omicron) variant using computational approaches. <i>Structural Chemistry</i> , 2022, 33, 2243-2260.	1.0	6
554	Effect of inactivated COVID-19 vaccination on intrauterine insemination cycle success: A retrospective cohort study. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	1
555	Potential of <i>Azadirachta indica</i> as a Capping Agent for Antiviral Nanoparticles against SARS-CoV-2. <i>BioMed Research International</i> , 2022, 2022, 1-12.	0.9	6
556	Psychological determinants of COVID-19 vaccine acceptance among urban slum dwellers of Bangladesh. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	5
557	Biophysical and Biochemical Characterization of the Receptor Binding Domain of SARS-CoV-2 Variants. <i>Protein Journal</i> , 2022, 41, 457-467.	0.7	0
559	Enhancing the Immunogenicity of RBD Protein Variants through Amino Acid E484 Mutation in SARS-CoV-2. <i>Viruses</i> , 2022, 14, 2020.	1.5	1
560	Molecular Docking and In-Silico Analysis of Natural Biomolecules against Dengue, Ebola, Zika, SARS-CoV-2 Variants of Concern and Monkeypox Virus. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11131.	1.8	8

#	ARTICLE	IF	CITATIONS
561	COVID-19 Vaccines Adverse Reactions Reported to the Pharmacovigilance Unit of Beira Interior in Portugal. <i>Journal of Clinical Medicine</i> , 2022, 11, 5591.	1.0	3
562	Case report: Bilateral panuveitis resembling Vogt-Koyanagi-Harada disease after second dose of BNT162b2 mRNA COVID-19 vaccine. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	4
563	COVID-19 Vaccinating Russian Medical Studentsâ€”Challenges and Solutions: A Cross-Sectional Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 11556.	1.2	2
564	SARS-CoV-2 Spike and Nucleocapsid Antibody Response in Vaccinated Croatian Healthcare Workers and Infected Hospitalized Patients: A Single Center Cohort Study. <i>Viruses</i> , 2022, 14, 1966.	1.5	6
565	A retrospective analysis of respiratory virus transmission before and during the COVID-19 pandemic in Pune the western region of India. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	4
566	IFI44 is an immune evasion biomarker for SARS-CoV-2 and Staphylococcus aureus infection in patients with RA. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	12
567	SARS-CoV-2, long COVID, prion disease and neurodegeneration. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	6
568	Broadly neutralizing antibodies to SARS-CoV-2 and other human coronaviruses. <i>Nature Reviews Immunology</i> , 2023, 23, 189-199.	10.6	112
569	A critical overview of current progress for COVID-19: development of vaccines, antiviral drugs, and therapeutic antibodies. <i>Journal of Biomedical Science</i> , 2022, 29, .	2.6	64
571	Live-attenuated YF17D-vectored COVID-19 vaccine protects from lethal yellow fever virus infection in mouse and hamster models. <i>EBioMedicine</i> , 2022, 83, 104240.	2.7	5
572	Localized delivery of nanomedicine and antibodies for combating COVID-19. <i>Acta Pharmaceutica Sinica B</i> , 2023, 13, 1828-1846.	5.7	5
573	Fast-track development of vaccines for SARS-CoV-2: The shots that saved the world. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	21
574	Development of variantâ€”proof severe acute respiratory syndrome coronavirus 2, panâ€”sarbecovirus, and panâ€”coronavirus vaccines. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	12
575	Seroprevalence of SARS-CoV-2 in Mexican Health Care Workers after Two Years of the Pandemic: The Picture of an Ophthalmic Medical Centre. <i>Ophthalmic Epidemiology</i> , 2023, 30, 400-406.	0.8	2
576	Adaptationâ€”Proof SARSâ€”CoVâ€”2 Vaccine Design. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	7
577	Nanovaccines to combat virusâ€”related diseases. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2023, 15, .	3.3	3
579	Monkeypox: Emerging virus of concern; antivirals and vaccines therapeutic options. <i>Microbial Pathogenesis</i> , 2022, 173, 105799.	1.3	4
580	Adjuvants to increase immunogenicity of SARS-CoV-2 RBD and support maternalâ€”fetal transference of antibodies in mice. <i>Pathogens and Disease</i> , 2022, 80, .	0.8	1

#	ARTICLE	IF	CITATIONS
581	Maintenance of Antibody Response in Egyptian Healthcare Workers Vaccinated with ChAdOx1 nCoV-19 Vaccine during Delta and Omicron Variants Pandemic: A Prospective Study. <i>Vaccines</i> , 2022, 10, 1706.	2.1	3
582	A triple-RBD-based mucosal vaccine provides broad protection against SARS-CoV-2 variants of concern. , 2022, 19, 1279-1289.		15
583	Mapping Potential Vaccine Candidates Predicted by Vaxijen for Different Viral Pathogens between 2017â€”2021â€”A Scoping Review. <i>Vaccines</i> , 2022, 10, 1785.	2.1	5
584	Serological Immune Response Following ChAdOx1 nCoV-19 Vaccine (Covishield®) in Patients with Liver Cirrhosis. <i>Vaccines</i> , 2022, 10, 1837.	2.1	6
585	Development of Single-Cell Transcriptomics and Its Application in COVID-19. <i>Viruses</i> , 2022, 14, 2271.	1.5	1
586	SARS-CoV-2 variants of concern and spike protein mutational dynamics in a Swedish cohort during 2021, studied by Nanopore sequencing. <i>Virology Journal</i> , 2022, 19, .	1.4	5
587	Design Strategies for and Stability of mRNAâ€”Lipid Nanoparticle COVID-19 Vaccines. <i>Polymers</i> , 2022, 14, 4195.	2.0	13
588	Plant Molecular Pharming and Plant-Derived Compounds towards Generation of Vaccines and Therapeutics against Coronaviruses. <i>Vaccines</i> , 2022, 10, 1805.	2.1	3
589	Antibody Response to ChAdOx1 nCoV-19 (AZD1222) Vaccine in Kidney Transplant Recipients. <i>Vaccines</i> , 2022, 10, 1693.	2.1	5
591	Omics tools enabling vaccine discovery against fasciolosis. <i>Trends in Parasitology</i> , 2022, 38, 1068-1079.	1.5	5
592	Zebrafish models of COVID-19. <i>FEMS Microbiology Reviews</i> , 2023, 47, .	3.9	6
593	TGF-Î²1 contributes to the hepatic inflammation in animal models with nonalcoholic steatohepatitis by Smad3/TLR2 signaling pathway. <i>Molecular Immunology</i> , 2022, 152, 129-139.	1.0	2
594	Antiviral biomaterials. , 2023, , 519-536.		0
595	Quantifying the Vaccine-Induced Humoral Immune Response to Spike-Receptor Binding Domain as a Surrogate for Neutralization Testing Following mRNA-1273 (Spikevax) Vaccination Against COVID-19. <i>Infectious Diseases and Therapy</i> , 2023, 12, 177-191.	1.8	2
596	Molecular Docking and Dynamics Simulation Studies of Ginsenosides with SARS-CoV-2 Host and Viral Entry Protein Targets. <i>Natural Product Communications</i> , 2022, 17, 1934578X2211343.	0.2	3
597	Rational Development of Hypervalent Glycan Shieldâ€”Binding Nanoparticles with Broadâ€”Spectrum Inhibition against Fatal Viruses Including SARSâ€”CoVâ€”2 Variants. <i>Advanced Science</i> , 2023, 10, .	5.6	10
598	Assessment of cell-mediated immune responses to SARS-CoV-2 in Syrian hamsters. <i>Meditinskii Akademicheskii Zhurnal</i> , 2022, 2, 215-220.	0.2	1
599	Epidemiological Analysis of COVID-19 Outbreaks in Wuhu, China, from January to March 2020. <i>Jundishapur Journal of Microbiology</i> , 2022, 15, .	0.2	1

#	ARTICLE	IF	CITATIONS
600	Serological responses triggered by different SARS-CoV-2 vaccines against SARS-CoV-2 variants in Taiwan. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	3
601	Targeting SARS-CoV-2 nsp13 Helicase and Assessment of Druggability Pockets: Identification of Two Potent Inhibitors by a Multi-Site In Silico Drug Repurposing Approach. <i>Molecules</i> , 2022, 27, 7522.	1.7	5
602	A variant-proof SARS-CoV-2 vaccine targeting HR1 domain in S2 subunit of spike protein. <i>Cell Research</i> , 2022, 32, 1068-1085.	5.7	27
603	Long-term variations and potency of neutralizing antibodies against Omicron subvariants after CoronaVac-inactivated booster: A 7-month follow-up study. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	3
604	The BBIBP-CorV inactivated COVID-19 vaccine induces robust and persistent humoral responses to SARS-CoV-2 nucleocapsid, besides spike protein in healthy adults. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	2
605	Safety and immunogenicity of heterologous recombinant protein subunit vaccine (ZF2001) booster against COVID-19 at 3-9-month intervals following two-dose inactivated vaccine (CoronaVac). <i>Frontiers in Immunology</i> , 0, 13, .	2.2	5
606	A review of COVID vaccines: success against a moving target. <i>British Medical Bulletin</i> , 2022, 144, 12-44.	2.7	5
607	Characterization and analysis of linear epitopes corresponding to SARS-CoV-2 outbreak in Jilin Province, China. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	4
608	Incidence and outcomes of splanchnic vein thrombosis after diagnosis of COVID-19 or COVID-19 vaccination: a systematic review and meta-analysis. <i>Journal of Thrombosis and Thrombolysis</i> , 2023, 55, 18-31.	1.0	4
609	An attenuated vaccinia vaccine encoding the severe acute respiratory syndrome coronavirus-2 spike protein elicits broad and durable immune responses, and protects cynomolgus macaques and human angiotensin-converting enzyme 2 transgenic mice from severe acute respiratory syndrome coronavirus-2 and its variants. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	4
610	A PEG-lipid-free COVID-19 mRNA vaccine triggers robust immune responses in mice. <i>Materials Horizons</i> , 2023, 10, 466-472.	6.4	4
611	Covid-19: evoluç~o temporal e imunizaç~o nas tr~as ondas epidemiol~gicas, Brasil, 2020~2022. <i>Revista De Saude Publica</i> , 0, 56, 105.	0.7	12
612	Comparison of machine learning methods with logistic regression analysis in creating predictive models for risk of critical in-hospital events in COVID-19 patients on hospital admission. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	7
613	SARS-CoV-2 in brief: from virus to prevention. <i>Osong Public Health and Research Perspectives</i> , 2022, 13, 394-406.	0.7	1
614	As the SARS-CoV-2 virus evolves, should Omicron subvariant BA.2 be subjected to quarantine, or should we learn to live with it?. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	5
615	Omicron variants escape the persistent SARS-CoV-2-specific antibody response in 2-year COVID-19 convalescents regardless of vaccination. <i>Emerging Microbes and Infections</i> , 2023, 12, .	3.0	13
616	Nanomaterials to combat SARS-CoV-2: Strategies to prevent, diagnose and treat COVID-19. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	3
617	Humoral immunity and B-cell memory in response to SARS-CoV-2 infection and vaccination. <i>Biochemical Society Transactions</i> , 2022, 50, 1643-1658.	1.6	6

#	ARTICLE	IF	CITATIONS
618	Involvement of the STING signaling in COVID-19. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	3
619	Determinants of the Level of Anti-SARS-CoV-2 IgG ANTibodiEs after Vaccination (DANTE-SIRIO 7) Study in a Large Cohort of Healthcare Workers. <i>Vaccines</i> , 2022, 10, 2125.	2.1	0
620	Design and performance characteristics of the Elecsys anti-SARS-CoV-2 S assay. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
621	Developing Biosensors for SARS-CoV-2 Wastewater-Based Epidemiology: A Systematic Review of Trends, Limitations and Future Perspectives. <i>Sustainability</i> , 2022, 14, 16761.	1.6	2
622	Knowledge And Attitudes Toward the COVID-19 Vaccine Among India's General Rural Population. <i>Vacunas</i> , 2022, , .	1.1	0
623	Structural Characteristics of Heparin Binding to SARS-CoV-2 Spike Protein RBD of Omicron Sub-Lineages BA.2.12.1, BA.4 and BA.5. <i>Viruses</i> , 2022, 14, 2696.	1.5	8
624	Urgent Need for Next-Generation COVID-19 Vaccines. <i>JAMA - Journal of the American Medical Association</i> , 2023, 329, 19.	3.8	25
625	High-Yield Production of Chimeric Hepatitis E Virus-Like Particles Bearing the M2e Influenza Epitope and Receptor Binding Domain of SARS-CoV-2 in Plants Using Viral Vectors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15684.	1.8	8
626	Effectiveness of mRNA, protein subunit vaccine and viral vectors vaccines against SARS-CoV-2 in people over 18 years old: a systematic review. <i>Expert Review of Vaccines</i> , 2023, 22, 35-53.	2.0	8
627	Multipolymer microsphere delivery of SARS-CoV-2 antigens. <i>Acta Biomaterialia</i> , 2023, 158, 493-509.	4.1	4
628	The prevalence of SARS-CoV-2 antibodies within the community of a private tertiary university in the Philippines: A serial cross sectional study. <i>PLoS ONE</i> , 2022, 17, e0268145.	1.1	2
629	Monoclonal antibodies constructed from COVID-19 convalescent memory B cells exhibit potent binding activity to MERS-CoV spike S2 subunit and other human coronaviruses. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	1
630	Modified DNA vaccine confers improved humoral immune response and effective virus protection against SARS-CoV-2 delta variant. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
631	Immune Responses against the Omicron Variant of SARS-CoV-2 after a Third Dose of COVID-19 Vaccine in Patients Living with Human Immunodeficiency Virus (PLWH): Comparison with Healthcare Workers. <i>Vaccines</i> , 2022, 10, 2129.	2.1	5
632	Therapeutic potential of compounds targeting SARS-CoV-2 helicase. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	3
634	Animal Models to Test SARS-CoV-2 Vaccines: Which Ones Are in Use and Future Expectations. <i>Pathogens</i> , 2023, 12, 20.	1.2	4
635	Key mutations in the spike protein of SARS-CoV-2 affecting neutralization resistance and viral internalization. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	15
636	Parents's Level of COVID-19 Fear, Anxiety and Their Attitudes and Behaviors Toward Vaccination of Their Children. <i>Omega: Journal of Death and Dying</i> , 0, , 003022282211463.	0.7	0

#	ARTICLE	IF	CITATIONS
637	Salmonella-mediated oral delivery of multiple-target vaccine constructs with conserved and variable regions of SARS-CoV-2 protect against the Delta and Omicron variants in hamster. <i>Microbes and Infection</i> , 2023, 25, 105101.	1.0	3
638	The Levels of Anti-SARS-CoV-2 Spike Protein IgG Antibodies Before and After the Third Dose of Vaccination Against COVID-19. <i>Journal of Inflammation Research</i> , 0, Volume 16, 145-160.	1.6	5
639	Recombinant Protein Vaccines against Human Betacoronaviruses: Strategies, Approaches and Progress. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1701.	1.8	5
640	A Facile Method to Coat Nanoparticles with Lipid Bilayer Membrane: Hybrid Silica Nanoparticles Disguised as Biomembrane Vesicles by Particle Penetration of Concentrated Lipid Layers. <i>Small</i> , 2023, 19, .	5.2	4
641	Immunogenicity and Safety of the BNT162b2 COVID-19 Vaccine in Patients with Cystic Fibrosis with or without Lung Transplantation. <i>International Journal of Molecular Sciences</i> , 2023, 24, 908.	1.8	6
642	Fluorogenic reporter enables identification of compounds that inhibit SARS-CoV-2. <i>Nature Microbiology</i> , 2023, 8, 121-134.	5.9	6
643	Race with virus evolution: The development and application of mRNA vaccines against SARS-CoV-2. <i>Biomedical Journal</i> , 2023, 46, 70-80.	1.4	8
644	Performance of the SureScreen Diagnostics COVID-19 antibody rapid test in comparison with three automated immunoassays.. <i>Diagnostic Microbiology and Infectious Disease</i> , 2023, , 115900.	0.8	0
645	Polypharmacology of ambroxol in the treatment of COVID-19. <i>Bioscience Reports</i> , 0, , .	1.1	0
646	A vaccine delivery system promotes strong immune responses against SARS-CoV-2 variants. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	6
647	Aspects and issues of marketing authorisation and use of medicinal products for COVID-19 prevention during the pandemic. <i>BIOpreparations Prevention Diagnosis Treatment</i> , 2022, 22, 361-381.	0.2	2
648	Characterization of SARS-CoV-2 omicron variants from Iran and evaluation of the effect of mutations on the spike, nucleocapsid, ORF8, and ORF9b proteins function. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 11415-11430.	2.0	2
650	An inactivated recombinant rabies virus chimerically expressed RBD induces humoral and cellular immunity against SARS-CoV-2 and RABV. <i>Virologica Sinica</i> , 2023, 38, 244-256.	1.2	3
651	The Cold-Adapted, Temperature-Sensitive SARS-CoV-2 Strain TS11 Is Attenuated in Syrian Hamsters and a Candidate Attenuated Vaccine. <i>Viruses</i> , 2023, 15, 95.	1.5	8
652	Diabetes Prevention and Measures to Ensuring a Healthy Lifestyle during COVID-19 Pandemic and after. <i>Korean Journal of Family Medicine</i> , 2023, 44, 11-20.	0.4	1
653	Machine-learning prediction of BMI change among doctors and nurses in North China during the COVID-19 pandemic. <i>Frontiers in Nutrition</i> , 0, 10, .	1.6	1
654	Advanced Vaccine Design Strategies against SARS-CoV-2 and Emerging Variants. <i>Bioengineering</i> , 2023, 10, 148.	1.6	3
655	Applications of genetic engineering in COVID-19. , 2023, , 219-237.		0

#	ARTICLE	IF	CITATIONS
656	Functional nucleic acids as potent therapeutics against SARS-CoV-2 infection. <i>Cell Reports Physical Science</i> , 2023, , 101249.	2.8	1
657	Humoral Immune Response to CoronaVac in Turkish Adults. <i>Vaccines</i> , 2023, 11, 216.	2.1	1
658	Displaying and delivering viral membrane antigens via WW domain-activated extracellular vesicles. <i>Science Advances</i> , 2023, 9, .	4.7	6
659	SARS-CoV-2 Omicron (B.1.1.529) Variant: A Challenge with COVID-19. <i>Diagnostics</i> , 2023, 13, 559.	1.3	12
660	Advances in Vaccine Adjuvants: Nanomaterials and Small Molecules. <i>Handbook of Experimental Pharmacology</i> , 2023, , .	0.9	0
661	COVID-19 Vaccination in Korea. <i>Infection and Chemotherapy</i> , 2023, 55, 135.	1.0	9
663	PF-D-Trimer, a protective SARS-CoV-2 subunit vaccine: immunogenicity and application. <i>Npj Vaccines</i> , 2023, 8, .	2.9	0
664	An overview of the vaccine platforms to combat COVID-19 with a focus on the subunit vaccines. <i>Progress in Biophysics and Molecular Biology</i> , 2023, 178, 32-49.	1.4	16
665	Tracking the COVID-19 vaccines: The global landscape. <i>Human Vaccines and Immunotherapeutics</i> , 2023, 19, .	1.4	17
666	Molecular recognition of SARS-CoV-2 spike protein with three essential partners: exploring possible immune escape mechanisms of viral mutants. <i>Journal of Molecular Modeling</i> , 2023, 29, .	0.8	4
667	Adaptive Evolution of the Spike Protein in Coronaviruses. <i>Molecular Biology and Evolution</i> , 2023, 40, .	3.5	6
668	Enhancement of immunogenicity and neutralizing responses against SARS-CoV-2 spike protein using the Fc fusion fragment. <i>Life Sciences</i> , 2023, 320, 121525.	2.0	2
669	Subunit vaccines with a saponin-based adjuvant boost humoral and cellular immunity to MERS coronavirus. <i>Vaccine</i> , 2023, 41, 3337-3346.	1.7	1
670	Antibody isotype epitope mapping of SARS-CoV-2 Spike RBD protein: Targets for COVID-19 symptomatology and disease control. <i>European Journal of Immunology</i> , 2023, 53, .	1.6	2
671	SARS-CoV-2 variants-associated outbreaks of COVID-19 in a tertiary institution, North-Central Nigeria: Implications for epidemic control. <i>PLoS ONE</i> , 2023, 18, e0280756.	1.1	0
672	Sequential orbital apex syndrome following the COVID-19 vaccination: A case report. <i>ENeurologicalSci</i> , 2023, 30, 100447.	0.5	1
673	Preclinical evaluation of a COVID-19 vaccine candidate based on a recombinant RBD fusion heterodimer of SARS-CoV-2. <i>IScience</i> , 2023, 26, 106126.	1.9	9
674	Homologous booster immunization with an inactivated vaccine induced robust antibody response in healthcare workers: A retrospective study. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	2

#	ARTICLE	IF	CITATIONS
675	Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. Computational and Structural Biotechnology Journal, 2023, 21, 1550-1556.	1.9	5
676	Government Policy in Strengthening Innovative Ecosystem as the Representation of Integration and Collaboration in Covid-19 Prevention and Handling in Surakarta Indonesia. , 2022, , 7-14.		0
677	Possible menstrual cycle changes after COVID 19 vaccination a questionnaire-based study among vaccinated women. Annals of Geriatric Education and Medical Sciences, 2023, 9, 58-63.	0.1	0
678	The landscape of antibody binding affinity in SARS-CoV-2 Omicron BA.1 evolution. ELife, 0, 12, .	2.8	21
679	Immunoglobulins response of COVID-19 patients, COVID-19 vaccine recipients, and random individuals. PLoS ONE, 2023, 18, e0281689.	1.1	8
680	Adenoviral Vector-Based Vaccine Platform for COVID-19: Current Status. Vaccines, 2023, 11, 432.	2.1	17
681	In Silico Studies to Support Vaccine Development. Pharmaceutics, 2023, 15, 654.	2.0	4
682	Broadly neutralizing anti-S2 antibodies protect against all three human betacoronaviruses that cause deadly disease. Immunity, 2023, 56, 669-686.e7.	6.6	43
683	Safety and immunogenicity of a protein subunit COVID-19 vaccine (ZF2001) in healthy children and adolescents aged 3â€“17 years in China: a randomised, double-blind, placebo-controlled, phase 1 trial and an open-label, non-randomised, non-inferiority, phase 2 trial. The Lancet Child and Adolescent Health, 2023, 7, 269-279.	2.7	6
684	Effectiveness of mRNA vaccine against Omicron-related infections in the real world: A systematic review and meta-analysis. American Journal of Infection Control, 2023, 51, 1049-1055.	1.1	4
685	Delivery of spike-RBD by bacterial type three secretion system for SARS-CoV-2 vaccine development. Frontiers in Immunology, 0, 14, .	2.2	1
686	ZF2001, A Protein Subunit Vaccines against SARS-CoV-2. , 0, , .		0
687	Rapid evaluation of heterologous chimeric RBD-dimer mRNA vaccine for currently-epidemic Omicron sub-variants as booster shot after inactivated vaccine. Biosafety and Health, 2023, 5, 89-100.	1.2	4
688	Variants of SARS-CoV-2: Influences on the Vaccinesâ€™ Effectiveness and Possible Strategies to Overcome Their Consequences. Medicina (Lithuania), 2023, 59, 507.	0.8	5
689	Immune damage mechanisms of COVID-19 and novel strategies in prevention and control of epidemic. Frontiers in Immunology, 0, 14, .	2.2	1
690	Short- and long-term T cell and antibody responses following dexamethasone treatment in COVID-19. JCI Insight, 2023, 8, .	2.3	1
691	Trimeric protein vaccine based on Beta variant elicits robust immune response against BA.4/5-included SARS-CoV-2 Omicron variants. Molecular Biomedicine, 2023, 4, .	1.7	0
692	Duplex Electrochemical Microfluidic Sensor for COVIDâ€™19 Antibody Detection: Natural versus Vaccineâ€™Induced Humoral Response. Small, 2023, 19, .	5.2	4

#	ARTICLE	IF	CITATIONS
693	Tannic Acid Lipid Nanoparticles can Deliver Messenger RNA Payloads and Improve their Endosomal Escape. <i>Advanced Therapeutics</i> , 2023, 6, .	1.6	5
694	SARS-CoV-2 Vaccines, Vaccine Development Technologies, and Significant Efforts in Vaccine Development during the Pandemic: The Lessons Learned Might Help to Fight against the Next Pandemic. <i>Vaccines</i> , 2023, 11, 682.	2.1	7
695	Human memory T cell dynamics after aluminum-adjuvanted inactivated whole-virion SARS-CoV-2 vaccination. <i>Scientific Reports</i> , 2023, 13, .	1.6	0
696	Effect of adjuvanting RBD-dimer-based subunit COVID-19 vaccines with Sepivac SWEâ„¢. <i>Vaccine</i> , 2023, 41, 2793-2803.	1.7	4
697	The Focused Analysis of COVID-19 RNA-based vaccines. , 0, 36, 866-870.		0
698	Host protection against Omicron BA.2.2 sublineages by prior vaccination in spring 2022 COVID-19 outbreak in Shanghai. <i>Frontiers of Medicine</i> , 2023, 17, 562-575.	1.5	8
699	DNA origami presenting the receptor binding domain of SARS-CoV-2 elicit robust protective immune response. <i>Communications Biology</i> , 2023, 6, .	2.0	14
700	Abiotic Synthetic Antibody Inhibitor with Broad-Spectrum Neutralization and Antiviral Efficacy against Escaping SARS-CoV-2 Variants. <i>ACS Nano</i> , 2023, 17, 7017-7034.	7.3	1
701	Exploring the Potential of Broadly Neutralizing Antibodies for Treating SARS-CoV-2 Variants of Global Concern in 2023: A Comprehensive Clinical Review. <i>Cureus</i> , 2023, , .	0.2	1
702	Factors associated with medication interruption among outpatients with severe mental illness exposed to COVID-19. <i>Frontiers in Public Health</i> , 0, 11, .	1.3	0
703	Understanding Mutations in Human SARS-CoV-2 Spike Glycoprotein: A Systematic Review & Meta-Analysis. <i>Viruses</i> , 2023, 15, 856.	1.5	10
704	Adjuvant-Free COVID-19 Vaccine with Glycoprotein Antigen Oxidized by Periodate Rapidly Elicits Potent Immune Responses. <i>ACS Chemical Biology</i> , 2023, 18, 915-923.	1.6	0
705	The role of machine learning in health policies during the COVID-19 pandemic and in long COVID management. <i>Frontiers in Public Health</i> , 0, 11, .	1.3	4
706	Sars-escape network for escape prediction of SARS-COV-2. <i>Briefings in Bioinformatics</i> , 0, , .	3.2	0
707	The effect of Pickering emulsion adjuvants on the immune efficacy of the COVID-19 polypeptide vaccine. <i>ChemPhysMater</i> , 2023, , .	1.4	0
708	A Recombinant RBD-Based Phage Vaccine Report: A Solution to the Prevention of New Diseases?. <i>Vaccines</i> , 2023, 11, 833.	2.1	0
709	Network pharmacology and molecular docking analysis on the mechanism of <i>Cordyceps militaris</i> polysaccharide regulating immunity through TLR4/TNFâ€” pathways. <i>Journal of Biochemical and Molecular Toxicology</i> , 2023, 37, .	1.4	3
710	BBIBP-CorV vaccination accelerates anti-viral antibody responses in heterologous Omicron infection: A retrospective observation study in Shanghai. <i>Vaccine</i> , 2023, , .	1.7	2

#	ARTICLE	IF	CITATIONS
711	Immunogenicity and In Vivo Protective Effects of Recombinant Nucleocapsid-Based SARS-CoV-2 Vaccine Convacell®. <i>Vaccines</i> , 2023, 11, 874.	2.1	2
717	Targetable elements in SARS-CoV-2 S2 subunit for the design of pan-coronavirus fusion inhibitors and vaccines. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	15
729	Two-birds-one-stone approach to combine protein and mRNA vaccines for COVID-19. <i>Nature Immunology</i> , 2023, 24, 1056-1057.	7.0	0
763	Nanotechnology-based theranostic and prophylactic approaches against SARS-CoV-2. <i>Immunologic Research</i> , 0, , .	1.3	1
778	Harnessing Knowledge from COVID-19 Scenario for New Generation Vaccine Development to Control Pandemics in Animals. <i>Livestock Diseases and Management</i> , 2023, , 249-279.	0.5	0
788	Molecular testing in emerging infectious diseases. , 2024, , 175-198.		0
795	Managing COVID-19 Variants: Mapping Data from the International Clinical Trials Registry Platform. , 0, , .		1
802	Innovation-driven trend shaping COVID-19 vaccine development in China. <i>Frontiers of Medicine</i> , 2023, 17, 1096-1116.	1.5	0
808	Targets of SARS-CoV-2: therapeutic implications for COVID-19. , 2024, , 3-14.		0
811	Medical care for SARS-CoV-2. , 2024, , 159-173.		0