

Considerations for diagnostic COVID-19 tests

Nature Reviews Microbiology

19, 171-183

DOI: [10.1038/s41579-020-00461-z](https://doi.org/10.1038/s41579-020-00461-z)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Coronavirus and Biobanking: The Collective Global Experiences of the First Wave and Bracing During the Second. <i>Biopreservation and Biobanking</i> , 2020, 18, 481-482.	0.5	4
3	Ultrarapid On-Site Detection of SARS-CoV-2 Infection Using Simple ATR-FTIR Spectroscopy and an Analysis Algorithm: High Sensitivity and Specificity. <i>Analytical Chemistry</i> , 2021, 93, 2950-2958.	3.2	92
4	COVID-19 Point-of-Care Diagnostics That Satisfy Global Target Product Profiles. <i>Diagnostics</i> , 2021, 11, 115.	1.3	19
7	SARS-CoV-2 and approaches for a testing and diagnostic strategy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8157-8173.	2.9	4
8	Comparative analysis of two molecular tests for the detection of COVID-19 in Cameroon. <i>Pan African Medical Journal</i> , 2021, 39, 214.	0.3	2
9	Financial development during COVID-19 pandemic: the role of coronavirus testing and functional labs. <i>Financial Innovation</i> , 2021, 7, 9.	3.6	26
10	Detection of severe acute respiratory coronavirus virus 2 (SARS-CoV-2) in outpatients: A multicenter comparison of self-collected saline gargle, oral swab, and combined oral+anterior nasal swab to a provider collected nasopharyngeal swab. <i>Infection Control and Hospital Epidemiology</i> , 2021, 42, 1340-1344.	1.0	34
11	COVID-19 detection by dogs: from physiology to field application—a review article. <i>Postgraduate Medical Journal</i> , 2022, 98, 212-218.	0.9	19
12	Molecular diagnostic assays for COVID-19: an overview. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2021, 58, 385-398.	2.7	47
13	Humanitarian Surgical Missions in Times of COVID-19: Recommendations to Safely Return to a Sub-Saharan Africa Low-Resource Setting. <i>World Journal of Surgery</i> , 2021, 45, 1297-1305.	0.8	3
14	COVID-19: Current knowledge in clinical features, immunological responses, and vaccine development. <i>FASEB Journal</i> , 2021, 35, e21409.	0.2	71
19	Fusion Genes and RNAs in Cancer Development. <i>Non-coding RNA</i> , 2021, 7, 10.	1.3	24
20	On-Chip Optical Detection of Viruses: A Review. <i>Advanced Photonics Research</i> , 2021, 2, 2000150.	1.7	27
22	COVID-19 and Diagnostic Testing for SARS-CoV-2 by RT-qPCR—Facts and Fallacies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2459.	1.8	21
23	COVID-19 Rapid Antigen Test as Screening Strategy at Points of Entry: Experience in Lazio Region, Central Italy, August–October 2020. <i>Biomolecules</i> , 2021, 11, 425.	1.8	22
25	Panbio, a rapid antigen test for SARS-CoV-2 has acceptable accuracy in symptomatic patients in primary health care. <i>Journal of Infection</i> , 2021, 82, 391-398.	1.7	53
27	Triboelectric Effect Enabled Self-Powered, Point-of-Care Diagnostics: Opportunities for Developing ASSURED and REASSURED Devices. <i>Micromachines</i> , 2021, 12, 337.	1.4	13
31	COVID-19 preparedness: capacity to manufacture vaccines, therapeutics and diagnostics in sub-Saharan Africa. <i>Globalization and Health</i> , 2021, 17, 24.	2.4	40

#	ARTICLE	IF	CITATIONS
33	Recent advances in nanomaterials based biosensors for point of care (PoC) diagnosis of Covid-19 – A minireview. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 137, 116205.	5.8	85
34	Diagnostic performance of CerTest and Panbio antigen rapid diagnostic tests to diagnose SARS-CoV-2 infection. <i>Journal of Clinical Virology</i> , 2021, 137, 104781.	1.6	36
36	SARS-CoV-2 Diagnostic Tests: Algorithm and Field Evaluation From the Near Patient Testing to the Automated Diagnostic Platform. <i>Frontiers in Medicine</i> , 2021, 8, 650581.	1.2	21
37	Severe acute respiratory syndrome coronavirus 2 infection in asymptomatic pediatric dental patients. <i>Journal of the American Dental Association</i> , 2021, 152, 277-283.	0.7	9
38	Evaluation of a fully closed real time PCR platform for the detection of SARS-CoV-2 in nasopharyngeal swabs: a pilot study. <i>Journal of Clinical Pathology</i> , 2022, 75, 551-554.	1.0	6
40	Fast Detection of SARS-CoV-2 RNA Directly from Respiratory Samples Using a Loop-Mediated Isothermal Amplification (LAMP) Test. <i>Viruses</i> , 2021, 13, 801.	1.5	10
41	RNA-extraction-free nano-amplified colorimetric test for point-of-care clinical diagnosis of COVID-19. <i>Nature Protocols</i> , 2021, 16, 3141-3162.	5.5	85
42	Biological characteristics and biomarkers of novel SARS-CoV-2 facilitated rapid development and implementation of diagnostic tools and surveillance measures. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112969.	5.3	22
43	Factors Associated with the Implementation of Non-Pharmaceutical Interventions for Reducing Coronavirus Disease 2019 (COVID-19): A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4274.	1.2	42
44	Profiling SARS-CoV-2 mutation fingerprints that range from the viral pangenome to individual infection quasispecies. <i>Genome Medicine</i> , 2021, 13, 62.	3.6	18
45	Utility of Antigen-Based Rapid Diagnostic Test for Detection of SARS-CoV-2 Virus in Routine Hospital Settings. <i>Laboratory Medicine</i> , 2021, 52, e154-e158.	0.8	15
46	A rapid diagnosis of SARS-CoV-2 using DNA hydrogel formation on microfluidic pores. <i>Biosensors and Bioelectronics</i> , 2021, 177, 113005.	5.3	51
47	Scaling of SARS-CoV-2 RNA in Settled Solids from Multiple Wastewater Treatment Plants to Compare Incidence Rates of Laboratory-Confirmed COVID-19 in Their Sewersheds. <i>Environmental Science and Technology Letters</i> , 2021, 8, 398-404.	3.9	89
48	Current and innovative methods for the diagnosis of COVID-19 infection (Review). <i>International Journal of Molecular Medicine</i> , 2021, 47, .	1.8	110
49	A Reliable Indirect ELISA Protocol for Detection of Human Antibodies Directed to SARS-CoV-2 NP Protein. <i>Diagnostics</i> , 2021, 11, 825.	1.3	10
50	COVID-19 and pulmonary fibrosis: therapeutics in clinical trials, repurposing, and potential development. <i>Archives of Pharmacal Research</i> , 2021, 44, 499-513.	2.7	18
51	Comparative evaluation of Panbio and SD Biosensor antigen rapid diagnostic tests for COVID-19 diagnosis. <i>Journal of Medical Virology</i> , 2021, 93, 5650-5654.	2.5	24
52	Testing at scale during the COVID-19 pandemic. <i>Nature Reviews Genetics</i> , 2021, 22, 415-426.	7.7	261

#	ARTICLE	IF	CITATIONS
53	Developing an ethical framework for asymptomatic COVID-19 testing programmes in higher education institutions. Wellcome Open Research, 0, 6, 101.	0.9	2
54	Simultaneous detection of the spike and nucleocapsid proteins from SARS-CoV-2 based on ultrasensitive single molecule assays. Analytical and Bioanalytical Chemistry, 2021, 413, 4645-4654.	1.9	17
55	RT-PCR/MALDI-TOF mass spectrometry-based detection of SARS-CoV-2 in saliva specimens. Journal of Medical Virology, 2021, 93, 5481-5486.	2.5	29
56	COVID-19 Point-of-Care Diagnostics: Present and Future. ACS Nano, 2021, 15, 7899-7906.	7.3	115
57	A deep learning semantic segmentation architecture for COVID-19 lesions discovery in limited chest CT datasets. Expert Systems, 2022, 39, e12742.	2.9	16
60	Sensitive Detection of SARS-CoV-2 Using a SERS-Based Aptasensor. ACS Sensors, 2021, 6, 2378-2385.	4.0	109
61	Clinical Application of a New SARS-CoV-2 Antigen Detection Kit (Colloidal Gold) in the Detection of COVID-19. Diagnostics, 2021, 11, 995.	1.3	16
62	The prevalence of SARS-CoV-2 antibodies in triage-negative patients and staff of a fertility setting from lockdown release throughout 2020. Human Reproduction Open, 2021, 2021, hoab028.	2.3	2
63	Sample-Pooling Strategy for SARS-CoV-2 Detection among Students and Staff of the University of Sannio. Diagnostics, 2021, 11, 1166.	1.3	4
64	Nucleic Acid Testing of SARS-CoV-2. International Journal of Molecular Sciences, 2021, 22, 6150.	1.8	42
65	Viral Dynamics and Real-Time RT-PCR Ct Values Correlation with Disease Severity in COVID-19. Diagnostics, 2021, 11, 1091.	1.3	135
66	Structure-based Design of a Specific, Homogeneous Luminescence Enzyme Reporter Assay for SARS-CoV-2. Journal of Molecular Biology, 2021, 433, 166983.	2.0	1
67	Screening, Diagnostic and Prognostic Tests for COVID-19: A Comprehensive Review. Life, 2021, 11, 561.	1.1	19
68	Science's Response to COVID-19. ChemMedChem, 2021, 16, 2288-2314.	1.6	15
69	Strategic Thinking in Test Selection for Mass SARS-CoV-2 Testing. journal of applied laboratory medicine, The, 2021, 6, 1688-1693.	0.6	0
70	Low-Cost Optical Assays for Point-of-Care Diagnosis in Resource-Limited Settings. ACS Sensors, 2021, 6, 2108-2124.	4.0	58
71	A Multiplex and Colorimetric Reverse Transcription Loop-Mediated Isothermal Amplification Assay for Sensitive and Rapid Detection of Novel SARS-CoV-2. Frontiers in Cellular and Infection Microbiology, 2021, 11, 653616.	1.8	20
72	Effects of the COVID-19 Pandemic on Mental Health in Peru: Psychological Distress. Healthcare (Switzerland), 2021, 9, 691.	1.0	23

#	ARTICLE	IF	CITATIONS
73	A rapid near-patient RT-PCR test for suspected COVID-19: a study of the diagnostic accuracy. <i>Annals of Translational Medicine</i> , 2021, 9, 921-921.	0.7	11
74	Community Mitigation of COVID-19 and Portrayal of Testing on TikTok: Descriptive Study. <i>JMIR Public Health and Surveillance</i> , 2021, 7, e29528.	1.2	15
75	Plasmonic Biosensor Augmented by a Genetic Algorithm for Ultra-Rapid, Label-Free, and Multi-Functional Detection of COVID-19. <i>Analytical Chemistry</i> , 2021, 93, 9437-9444.	3.2	34
76	FnCas9-based CRISPR diagnostic for rapid and accurate detection of major SARS-CoV-2 variants on a paper strip. <i>ELife</i> , 2021, 10, .	2.8	53
77	Repeat virological and serological profiles in hospitalized patients initially tested by nasopharyngeal RT-PCR for SARS-CoV-2. <i>Journal of Medical Virology</i> , 2021, 93, 6808-6812.	2.5	5
79	Optimization and Standardization of Human Saliva Collection for MALDI-TOF MS. <i>Diagnostics</i> , 2021, 11, 1304.	1.3	6
80	Machine learning spatio-temporal epidemiological model to evaluate Germany-county-level COVID-19 risk. <i>Machine Learning: Science and Technology</i> , 2021, 2, 035031.	2.4	14
81	Host-Pathogen Adhesion as the Basis of Innovative Diagnostics for Emerging Pathogens. <i>Diagnostics</i> , 2021, 11, 1259.	1.3	5
82	Review on Recent Progress in Magnetic Nanoparticles: Synthesis, Characterization, and Diverse Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 629054.	1.8	242
83	Competitive anxiety or Coronavirus anxiety? The psychophysiological responses of professional football players after returning to competition during the COVID-19 pandemic. <i>Psychoneuroendocrinology</i> , 2021, 129, 105269.	1.3	15
84	Intensive Care Unit Admission for Moderate-to-Severe COVID-19 Patients With Known Cardiovascular Diseases or Their Risk Factors—Insights From a Nationwide Japanese Cohort Study. <i>Circulation Reports</i> , 2021, 3, 375-380.	0.4	4
85	The Second Wave of COVID-19 and Risk of the Third Wave: Factors Affecting the Continuous Transmission, Spread of, and Increased Mortality Associated With Coronavirus Disease 2019 (COVID-19). <i>European Journal of Environment and Public Health</i> , 2021, 5, em0081.	0.9	3
86	Rapidly deploying a COVID-19 decision support system in one of the largest Brazilian hospitals. <i>Health Informatics Journal</i> , 2021, 27, 146045822110330.	1.1	2
87	Diagnostic accuracy of rapid antigen tests in asymptomatic and presymptomatic close contacts of individuals with confirmed SARS-CoV-2 infection: cross sectional study. <i>BMJ, The</i> , 2021, 374, n1676.	3.0	73
88	Rapid and Convenient Quantitative Analysis of SARS-CoV-2 RNA in Serous Saliva with a Direct PCR Method. <i>Epidemiologia</i> , 2021, 2, 305-314.	1.1	1
89	Proteinase K treatment in absence of RNA isolation classical procedures is a quick and cheaper alternative for SARS-CoV-2 molecular detection. <i>Journal of Virological Methods</i> , 2021, 293, 114131.	1.0	9
90	Analytical Performance of COVID-19 Detection Methods (RT-PCR): Scientific and Societal Concerns. <i>Life</i> , 2021, 11, 660.	1.1	9
91	The preparation of N-IgY targeting SARS-CoV-2 and its immunomodulation to IFN- β production in vitro. <i>International Immunopharmacology</i> , 2021, 96, 107797.	1.7	13

#	ARTICLE	IF	CITATIONS
92	Targeted metabolomics identifies high performing diagnostic and prognostic biomarkers for COVID-19. <i>Scientific Reports</i> , 2021, 11, 14732.	1.6	41
93	Digital CRISPR-based method for the rapid detection and absolute quantification of nucleic acids. <i>Biomaterials</i> , 2021, 274, 120876.	5.7	65
95	Laboratory Readiness and Response for SARS-Cov-2 in Indonesia. <i>Frontiers in Public Health</i> , 2021, 9, 705031.	1.3	13
98	Epitope mapping of severe acute respiratory syndrome-related coronavirus nucleocapsid protein with a rabbit monoclonal antibody. <i>Virus Research</i> , 2021, 300, 198445.	1.1	9
99	A non-enzymatic, isothermal strand displacement and amplification assay for rapid detection of SARS-CoV-2 RNA. <i>Nature Communications</i> , 2021, 12, 5089.	5.8	47
100	Efficiency of pooled surveillance testing in academic labs to detect and inhibit COVID-19 outbreaks. <i>Bioanalysis</i> , 2021, 13, 1177-1182.	0.6	3
101	Real-time SARS-CoV-2 diagnostic and variants tracking over multiple candidates using nanopore DNA sequencing. <i>Scientific Reports</i> , 2021, 11, 15869.	1.6	11
102	Examining the potential benefits of the influenza vaccine against SARS-CoV-2: A retrospective cohort analysis of 74,754 patients. <i>PLoS ONE</i> , 2021, 16, e0255541.	1.1	41
103	Comparison of SARS-CoV-2 detection with the Cobas® 6800/8800 system on gargle samples using two sample processing methods with combined oropharyngeal/nasopharyngeal swab. <i>Journal of Medical Virology</i> , 2021, 93, 6837-6840.	2.5	8
104	Multiplexed Magnetofluorescent Bioplatfrom for the Sensitive Detection of SARS-CoV-2 Viral RNA without Nucleic Acid Amplification. <i>Analytical Chemistry</i> , 2021, 93, 11225-11232.	3.2	17
105	Discrepancy between PCR based SARS-CoV-2 tests suggests the need to re-evaluate diagnostic assays. <i>BMC Research Notes</i> , 2021, 14, 316.	0.6	6
106	Negative SARS-CoV-2 PCR or rapid antigen test result and the subsequent risk of being infectious: a mathematical simulation study. <i>BMC Medical Research Methodology</i> , 2021, 21, 165.	1.4	1
107	Detection of SARS-CoV-2 at the point of care. <i>Bioanalysis</i> , 2021, 13, 1213-1223.	0.6	26
108	Lessons learned from the COVID-19 pandemic and its impact on bioanalysis and drug development. <i>Bioanalysis</i> , 2021, 13, 1205-1211.	0.6	5
109	Self-collected unstimulated saliva, oral swab, and nasopharyngeal swab specimens in the detection of SARS-CoV-2. <i>Clinical Oral Investigations</i> , 2022, 26, 1561-1567.	1.4	8
110	Co-infections observed in SARS-CoV-2 positive patients using a rapid diagnostic test. <i>Scientific Reports</i> , 2021, 11, 16355.	1.6	17
111	Analytical and Clinical Evaluation of the Semiquantitative Elecsys Anti-SARS-CoV-2 Spike Protein Receptor Binding Domain Antibody Assay on the Roche cobas e602 Analyzer. <i>American Journal of Clinical Pathology</i> , 2022, 157, 109-118.	0.4	5
112	Development of robust isothermal RNA amplification assay for lab-free testing of RNA viruses. <i>Scientific Reports</i> , 2021, 11, 15997.	1.6	5

#	ARTICLE	IF	CITATIONS
113	Evaluating tests for diagnosing COVID-19 in the absence of a reliable reference standard: pitfalls and potential solutions. <i>Journal of Clinical Epidemiology</i> , 2021, 138, 182-188.	2.4	10
114	Racial and ethnic inequities in the early distribution of U.S. COVID-19 testing sites and mortality. <i>European Journal of Clinical Investigation</i> , 2021, 51, e13669.	1.7	18
115	SARS-CoV-2 Tests: Bridging the Gap between Laboratory Sensors and Clinical Applications. <i>ACS Sensors</i> , 2021, 6, 2815-2837.	4.0	24
116	Herramientas biotecnológicas en el diagnóstico, prevención y tratamiento frente a pandemias. <i>Revista Bionatura</i> , 2021, 3, 2091-2113.	0.1	0
117	Classification of Chest X-Ray Images using Wavelet and MFCC Features and Support Vector Machine Classifier. <i>Engineering, Technology & Applied Science Research</i> , 2021, 11, 7296-7301.	0.8	7
118	Performance verification of the Abbott SARS-CoV-2 test for qualitative detection of IgG in Cali, Colombia. <i>PLoS ONE</i> , 2021, 16, e0256566.	1.1	3
119	COVID-19 Seroprevalence and Active Infection in an Asymptomatic Population. <i>Frontiers in Medicine</i> , 2021, 8, 749732.	1.2	5
120	Nested pool testing strategy for the diagnosis of infectious diseases. <i>Scientific Reports</i> , 2021, 11, 18108.	1.6	9
122	Rapid growth in the COVID-19 era. <i>MRS Bulletin</i> , 2021, 46, 847-853.	1.7	3
123	Evaluation of the diagnostic accuracy of COVID-19 antigen tests: A systematic review and meta-analysis. <i>Journal of the Chinese Medical Association</i> , 2021, 84, 1028-1037.	0.6	12
124	A lab-on-a-chip platform for integrated extraction and detection of SARS-CoV-2 RNA in resource-limited settings. <i>Analytica Chimica Acta</i> , 2021, 1177, 338758.	2.6	31
125	False-Negative RT-PCR Findings and Double Mutant Variant as Factors of an Overwhelming Second Wave of COVID-19 in India: an Emerging Global Health Disaster. <i>SN Comprehensive Clinical Medicine</i> , 2021, 3, 2383-2388.	0.3	25
126	Evaluation of sixteen ELISA SARS-CoV-2 serological tests. <i>Journal of Clinical Virology</i> , 2021, 142, 104931.	1.6	14
127	Conhecimentos de médicos anesthesiologistas sobre cuidados em anesthesiologia nos pacientes com COVID-19. <i>Research, Society and Development</i> , 2021, 10, e508101119845.	0.0	0
129	Current diagnostic approaches to detect two important betacoronaviruses: Middle East respiratory syndrome coronavirus (MERS-CoV) and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). <i>Pathology Research and Practice</i> , 2021, 225, 153565.	1.0	8
130	Semi-quantitative, high throughput analysis of SARS-CoV-2 neutralizing antibodies: Measuring the level and duration of immune response antibodies post infection/vaccination. <i>Vaccine</i> , 2021, 39, 5688-5698.	1.7	10
132	Management of COVID-19 Patients in the Emergency Department. <i>Journal of Personalized Medicine</i> , 2021, 11, 961.	1.1	9
133	Diagnostic accuracy of fresh drooled saliva for SARS-CoV-2 in travelers. <i>Travel Medicine and Infectious Disease</i> , 2021, 43, 102144.	1.5	2

#	ARTICLE	IF	CITATIONS
134	Near real-time determination of B.1.1.7 in proportion to total SARS-CoV-2 viral load in wastewater using an allele-specific primer extension PCR strategy. <i>Water Research</i> , 2021, 205, 117681.	5.3	48
135	Transdermal sensing: in-situ non-invasive techniques for monitoring of human biochemical status. <i>Current Opinion in Biotechnology</i> , 2021, 71, 198-205.	3.3	12
136	Clinitest rapid COVID-19 antigen test for the diagnosis of SARS-CoV-2 infection: A multicenter evaluation study. <i>Journal of Clinical Virology</i> , 2021, 143, 104961.	1.6	10
137	Testing indicators to monitor the COVID-19 pandemic. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 1344-1345.	4.6	8
138	Harnessing recombinase polymerase amplification for rapid multi-gene detection of SARS-CoV-2 in resource-limited settings. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113328.	5.3	44
139	A chemical-enhanced system for CRISPR-Based nucleic acid detection. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113493.	5.3	37
140	Point-of-need detection of pathogen-specific nucleic acid targets using magnetic particle spectroscopy. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113536.	5.3	12
141	Evaluation of automated antigen detection test for detection of SARS-CoV-2. <i>Diagnostic Microbiology and Infectious Disease</i> , 2021, 101, 115490.	0.8	7
142	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
143	Mix-and-read, one-minute SARS-CoV-2 diagnostic assay: development of PIFE-based aptasensor. <i>Chemical Communications</i> , 2021, 57, 10222-10225.	2.2	11
149	Direct Np- a Cost-Effective Extraction-Free Rt-Qpcr Based Test for Sars-Cov-2. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
150	Attomolar analyte sensing techniques (AttoSens): a review on a decade of progress on chemical and biosensing nanoplatfoms. <i>Chemical Society Reviews</i> , 2021, 50, 13012-13089.	18.7	25
151	Unlocking SARS-CoV-2 detection in low- and middle-income countries. <i>Cell Reports Methods</i> , 2021, 1, 100093.	1.4	15
152	Diagnostic Tests and Procedures During the COVID-19 Pandemic. <i>Springer Actuarial</i> , 2022, , 191-216.	0.2	1
153	Seasonal UV exposure and vitamin D: association with the dynamics of COVID-19 transmission in Europe. <i>FEBS Open Bio</i> , 2022, 12, 106-117.	1.0	8
154	Smart testing and critical care bed sharing for COVID-19 control. <i>PLoS ONE</i> , 2021, 16, e0257235.	1.1	4
155	Host methylation predicts SARS-CoV-2 infection and clinical outcome. <i>Communications Medicine</i> , 2021, 1, 42.	1.9	35
156	Natural spring water gargle samples as an alternative to nasopharyngeal swabs for SARS-CoV-2 detection using a laboratory-developed test. <i>Journal of Medical Virology</i> , 2022, 94, 985-993.	2.5	9

#	ARTICLE	IF	CITATIONS
158	Renal-Clearable Molecular Probe for Near-Infrared Fluorescence Imaging and Urinalysis of SARS-CoV-2. <i>Journal of the American Chemical Society</i> , 2021, 143, 18827-18831.	6.6	51
160	Optimal diagnostic test allocation strategy during the COVID-19 pandemic and beyond. <i>Statistics in Medicine</i> , 2022, 41, 310-327.	0.8	12
161	Point-of-care COVID-19 diagnostics powered by lateral flow assay. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116452.	5.8	103
162	Development of the DNA-based biosensors for high performance in detection of molecular biomarkers: More rapid, sensitive, and universal. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113739.	5.3	32
163	Antibody-Free Rapid Detection of SARS-CoV-2 Proteins Using Corona Phase Molecular Recognition to Accelerate Development Time. <i>Analytical Chemistry</i> , 2021, 93, 14685-14693.	3.2	25
164	Nanodiagnostics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. <i>ACS Nano</i> , 2021, 15, 17137-17149.	7.3	32
165	One year of laboratory-based COVID-19 surveillance system in Belgium: main indicators and performance of the laboratories (March 2020-21). <i>Archives of Public Health</i> , 2021, 79, 188.	1.0	21
166	SERS-PCR assays of SARS-CoV-2 target genes using Au nanoparticles-internalized Au nanodimple substrates. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113736.	5.3	32
167	Diagnostic Accuracy of SARS-CoV-2 Antigen Tests for Community Transmission Screening: A Systematic Review and Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11451.	1.2	17
168	Tracking SARS-CoV-2: Novel Trends and Diagnostic Strategies. <i>Diagnostics</i> , 2021, 11, 1981.	1.3	13
169	Leveraging of SARS-CoV-2 PCR Cycle Thresholds Values to Forecast COVID-19 Trends. <i>Frontiers in Medicine</i> , 2021, 8, 743988.	1.2	16
170	The concept of disease in the time of COVID-19. <i>Theoretical Medicine and Bioethics</i> , 2020, 41, 203-221.	0.4	3
172	The Implementation of Clinical Laboratory Quality Indicators in the Era of the COVID-19 Pandemic. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2022, , 215-229.	0.2	0
173	FNCas9 editor-linked uniform detection assay: An innovative COVID-19 sleuth. <i>Biomedical and Biotechnology Research Journal</i> , 2020, 4, 302.	0.3	2
174	Quantum processing of cytidine derivatives and evaluating their in silico interactions with the COVID-19 main protease. <i>Main Group Chemistry</i> , 2022, 21, 263-270.	0.4	8
175	Mutual relationships between SARS-CoV-2 test numbers, fatality and morbidity rates. <i>BMC Public Health</i> , 2021, 21, 1980.	1.2	1
176	An Ultrafast One-Step Quantitative Reverse Transcription-Polymerase Chain Reaction Assay for Detection of SARS-CoV-2. <i>Frontiers in Microbiology</i> , 2021, 12, 749783.	1.5	4
177	Estimate false-negative RT-PCR rates for SARS-CoV-2. A systematic review and meta-analysis. <i>European Journal of Clinical Investigation</i> , 2022, 52, e13706.	1.7	65

#	ARTICLE	IF	CITATIONS
178	Electrochemical detection of ACE2 as a biomarker for diagnosis of COVID-19 and potential male infertility. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113788.	5.3	5
179	A Pervasive Review on New Advancements of Nano Vaccines on Covid-19 Pandemic. <i>International Journal of Pharmaceutical Sciences Review and Research</i> , 2021, 70, .	0.1	1
180	A novel gold nanosensor and "Blockade-of-Binding"™ based immunochromatographic rapid antigen test kit for Zika virus. <i>Materials Letters</i> , 2021, , 131322.	1.3	5
181	Performance Validation of COVID-19 Self-Conduct Buccal and Nasal Swabs RTK-Antigen Diagnostic Kit. <i>Diagnostics</i> , 2021, 11, 2245.	1.3	8
182	Effectiveness of non-pharmaceutical public health interventions against COVID-19: A systematic review and meta-analysis. <i>PLoS ONE</i> , 2021, 16, e0260371.	1.1	57
183	Usefulness of SARS-CoV-2 antigen test sample as input for SARS-CoV-2 RT-PCR analysis. <i>Journal of Medical Virology</i> , 2021, , .	2.5	4
184	Evaluation of Humoral Immune Response after SARS-CoV-2 Vaccination Using Two Binding Antibody Assays and a Neutralizing Antibody Assay. <i>Microbiology Spectrum</i> , 2021, 9, e0120221.	1.2	25
185	Metal Nanoparticles against Viruses: Possibilities to Fight SARS-CoV-2. <i>Nanomaterials</i> , 2021, 11, 3118.	1.9	11
187	Assessment of SARS-CoV-2 viral loads in combined nasal-and-throat swabs collected from COVID-19 individuals under the Universal Community Testing Programme in Hong Kong. <i>Journal of Virological Methods</i> , 2022, 300, 114396.	1.0	5
189	The Spectrum of Biochemical Alterations with Molecular and Serological Biomarkers in the Diagnosis of COVID-19: Searching for Novel One to Identify Disease Earlier with Better Prognosis and Drug Discovery. <i>Recent Advances in Anti-Infective Drug Discovery</i> , 2021, 16, 179-181.	0.4	5
191	Diagnostic accuracy of serological tests for COVID-19: a systematic review and meta-analysis of cohort studies. <i>Rivista Italiana Della Medicina Di Laboratorio</i> , 2022, 17, .	0.2	1
192	Rapid, Cheap, and Effective COVID-19 Diagnostics for Africa. <i>Diagnostics</i> , 2021, 11, 2105.	1.3	11
193	Epidemiological study in a small rural area of Veneto (Italian region) during Sars-Cov-2 Pandemia. <i>Scientific Reports</i> , 2021, 11, 23247.	1.6	4
194	Detection of SARS-CoV-2 in COVID-19 Patient Nasal Swab Samples Using Signal Processing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2022, 16, 164-174.	7.3	1
196	Point-of-care diagnostics: recent developments in a pandemic age. <i>Lab on A Chip</i> , 2021, 21, 4517-4548.	3.1	34
197	A method of sequential liquid dispensing for the multiplexed genetic diagnosis of viral infections in a microfluidic device. <i>Lab on A Chip</i> , 2021, 21, 4779-4790.	3.1	13
198	Innovations in infectious disease testing: Leveraging COVID-19 pandemic technologies for the future. <i>Clinical Biochemistry</i> , 2023, 117, 10-15.	0.8	8
199	A rapid RNA extraction-free lateral flow assay for molecular point-of-care detection of SARS-CoV-2 augmented by chemical probes. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113900.	5.3	40

#	ARTICLE	IF	CITATIONS
200	Corona Detective: a simple, scalable, and robust SARS-CoV-2 detection method based on reverse transcription loop-mediated isothermal amplification. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 89-97.	0.8	1
201	Ayurvedic Remedies of Covid-19. <i>International Journal of Pharmaceutical Sciences Review and Research</i> , 2021, 70, .	0.1	2
202	Diverse Techniques Applied for Effective Diagnosis of COVID-19. , 2022, , 45-58.		6
203	Dealing with a Pandemic: Emerging Tools, Solutions, and Challenges. <i>Health Security</i> , 2022, 20, 109-115.	0.9	2
204	A low-cost, portable, and practical LAMP device for point-of-care diagnosis in the field. <i>Biotechnology and Bioengineering</i> , 2022, 119, 994-1003.	1.7	7
205	Combining recombinase polymerase amplification and <i>in situ</i> DNA templated reaction for SARS-CoV-2 sensing with dual fluorescence and lateral flow assay output. <i>Biopolymers</i> , 2022, 113, e23485.	1.2	16
207	Contribution of the Advanced Research Laboratories at the Noguchi Memorial Institute for Medical Research (NMIMR) to SARS-CoV-2 Testing in Ghana. <i>Health</i> , 2022, 14, 125-136.	0.1	0
208	Antiviral metabolite 3-deoxy-4-thiouridine is detectable in serum and identifies acute viral infections including COVID-19. <i>Med</i> , 2022, 3, 204-215.e6.	2.2	12
209	An encodable multiplex microsphere-phase amplification sensing platform detects SARS-CoV-2 mutations. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114032.	5.3	7
210	Nanoagent-based theranostic strategies against human coronaviruses. <i>Nano Research</i> , 2022, 15, 1-15.	5.8	4
211	Rapid and specific detection of intact viral particles using functionalized microslit silicon membranes as a fouling-based sensor. <i>Analyst</i> , 2022, 147, 213-222.	1.7	3
212	LAP-MALDI MS coupled with machine learning: an ambient mass spectrometry approach for high-throughput diagnostics. <i>Chemical Science</i> , 2022, 13, 1746-1758.	3.7	9
213	Small form factor flow virometer for SARS-CoV-2. <i>Biomedical Optics Express</i> , 2022, 13, 1609.	1.5	3
215	Testing strategies to contain COVID-19 in migrant worker dormitories. <i>Journal of Migration and Health</i> , 2022, 5, 100079.	1.6	2
216	Advances in the Development of Phage-Based Probes for Detection of Bio-Species. <i>Biosensors</i> , 2022, 12, 30.	2.3	16
217	Monoclonal antibodies for COVID-19 therapy and SARS-CoV-2 detection. <i>Journal of Biomedical Science</i> , 2022, 29, 1.	2.6	144
218	Assessment of a Smartphone-Based Loop-Mediated Isothermal Amplification Assay for Detection of SARS-CoV-2 and Influenza Viruses. <i>JAMA Network Open</i> , 2022, 5, e2145669.	2.8	23
219	Poly(methyl methacrylate)-Based Nanofluidic Device for Rapid and Multiplexed Serological Antibody Detection of SARS-CoV-2. <i>ACS Applied Nano Materials</i> , 2022, 5, 517-526.	2.4	7

#	ARTICLE	IF	CITATIONS
220	Bioconjugated Nanomaterial for Targeted Diagnosis of SARS-CoV-2. <i>Accounts of Materials Research</i> , 2022, 3, 134-148.	5.9	10
221	Molecular accuracy vs antigenic speed: SARS-CoV-2 testing strategies. <i>Current Opinion in Pharmacology</i> , 2022, 62, 152-158.	1.7	3
222	Evaluation of the Roche-SD Biosensor rapid antigen test: Antigen is not reliable in detecting SARS-CoV-2 at the early stage of infection with respiratory symptoms. <i>Diagnostic Microbiology and Infectious Disease</i> , 2022, 102, 115628.	0.8	4
223	Development of magnetic particle-based chemiluminescence immunoassay for measurement of SARS-CoV-2 nucleocapsid protein. <i>Journal of Virological Methods</i> , 2022, 302, 114486.	1.0	2
224	Epidemiological modeling for COVID-19 spread in India with the effect of testing. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 592, 126774.	1.2	10
225	Use of sewage surveillance for COVID-19 to guide public health response: A case study in Hong Kong. <i>Science of the Total Environment</i> , 2022, 821, 153250.	3.9	31
226	Comparative early results of a robotics-assisted endoscope holder in single port thoracoscopic surgery in the era of COVID-19. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, 36, 5501-5509.	1.3	2
227	A Community Study of SARS-CoV-2 Detection by RT-PCR in Saliva: A Reliable and Effective Method. <i>Viruses</i> , 2022, 14, 313.	1.5	10
229	Development of a TÂcell-based immunodiagnostic system to effectively distinguish SARS-CoV-2 infection and COVID-19 vaccination status. <i>Cell Host and Microbe</i> , 2022, 30, 388-399.e3.	5.1	26
230	Alterations in Immune-Inflammatory indexes and Hematological parameters in COVID-19 patients: with positive RT-PCR. <i>New Microbes and New Infections</i> , 2022, , 100963.	0.8	0
231	Saliva-based detection of COVID-19 infection in a real-world setting using reagent-free Raman spectroscopy and machine learning. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	24
232	Antihistamines for Postacute Sequelae of SARS-CoV-2 Infection. <i>Journal for Nurse Practitioners</i> , 2022, 18, 335-338.	0.4	20
233	Virtual Reality Medical Training for COVID-19 Swab Testing and Proper Handling of Personal Protective Equipment: Development and Usability. <i>Frontiers in Virtual Reality</i> , 2022, 2, .	2.5	6
234	Disparities in SARS-CoV-2 Testing for Hispanic/Latino Populations. <i>Journal of Public Health Management and Practice</i> , 2022, Publish Ahead of Print, .	0.7	13
235	Clinical characteristics of COVID-19 patients in Xiaogan, China: comparison between recent imported cases and earlier local cases. <i>American Journal of Translational Research (discontinued)</i> , 2021, 13, 11999-12005.	0.0	0
236	A Deep Learning Approach to Predict COVID-19 Through Cough Analysis Using CNN-BiDirectional LSTM. , 2022, , .		2
237	THE PROFILE OF SPECIFIC ANTIBODIES TO SARS-COV-2 IN RESIDENTS OF THE CENTRAL AND EASTERN REGIONS OF UKRAINE. <i>World of Medicine and Biology</i> , 2022, 18, 11.	0.1	4
238	Laboratory Detection of SARS-CoV-2: A Review of the Current Literature and Future Perspectives. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
239	A Paper-Based Optical Sensor for the Screening of Viruses Through the Cysteine Residues of Their Surface Proteins: The Detection of Coronavirus Infection. SSRN Electronic Journal, 0, , .	0.4	0
240	Science, Technology, and Innovation Response to the COVID-19 Pandemic. Health Information Systems and the Advancement of Medical Practice in Developing Countries, 2022, , 108-132.	0.1	0
241	Multiplex metal-detection based assay (MMDA) for COVID-19 diagnosis and identification of disease severity biomarkers. Chemical Science, 2022, 13, 3216-3226.	3.7	5
242	Detection of SARS-CoV-2 infection in the general population by three prevailing rapid antigen tests: cross-sectional diagnostic accuracy study. BMC Medicine, 2022, 20, 97.	2.3	11
243	Elucidating the Role of Cardiac Biomarkers in COVID-19: A Narrative Evaluation with Clinical Standpoints and a Pragmatic. Current Cardiology Reviews, 2022, 18, .	0.6	1
244	Food for thought: Eating before saliva collection and interference with SARS-CoV-2 detection. Journal of Medical Virology, 2022, 94, 2471-2478.	2.5	6
245	Open-Source, Adaptable, All-in-One Smartphone-Based System for Quantitative Analysis of Point-of-Care Diagnostics. Diagnostics, 2022, 12, 589.	1.3	5
246	Identification-detection group testing protocols for COVID-19 at high prevalence. Scientific Reports, 2022, 12, 3250.	1.6	0
247	Fast Evaluation of Viral Emerging Risks (FEVER): A computational tool for biosurveillance, diagnostics, and mutation typing of emerging viral pathogens. PLOS Global Public Health, 2022, 2, e0000207.	0.5	1
248	Oncofertility and COVID-19: At the Crossroads between Two Time-Sensitive Fields. Journal of Clinical Medicine, 2022, 11, 1221.	1.0	0
249	Contemporary diagnostics for medically relevant fastidious microorganisms belonging to the genera <i>Anaplasma</i> , <i>Bartonella</i> , <i>Coxiella</i> , <i>Orientia</i> and <i>Rickettsia</i> . FEMS Microbiology Reviews, 2022, 46, .	3.9	10
250	Optical imaging spectroscopy for rapid, primary screening of SARS-CoV-2: a proof of concept. Scientific Reports, 2022, 12, 2356.	1.6	6
251	Giant Magnetoresistance Biosensors in Biomedical Applications. ACS Applied Materials & Interfaces, 2022, 14, 9945-9969.	4.0	31
253	BugSplit enables genome-resolved metagenomics through highly accurate taxonomic binning of metagenomic assemblies. Communications Biology, 2022, 5, 151.	2.0	7
254	Powerful CRISPR-Based Biosensing Techniques and Their Integration With Microfluidic Platforms. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851712.	2.0	9
255	Comparative Evaluation of Rapid Isothermal Amplification and Antigen Assays for Screening Testing of SARS-CoV-2. Viruses, 2022, 14, 468.	1.5	4
256	Diagnostic assay and technology advancement for detecting SARS-CoV-2 infections causing the COVID-19 pandemic. Analytical and Bioanalytical Chemistry, 2022, 414, 2903-2934.	1.9	19
257	A Performance Assessment Study of Different Clinical Samples for Rapid COVID-19 Antigen Diagnosis Tests. Diagnostics, 2022, 12, 847.	1.3	7

#	ARTICLE	IF	CITATIONS
258	Imprinted Photonic Crystal-Film-Based Smartphone-Compatible Label-Free Optical Sensor for SARS-CoV-2 Testing. <i>Biosensors</i> , 2022, 12, 200.	2.3	15
259	Label-Free Spectroscopic SARS-CoV-2 Detection on Versatile Nanoimprinted Substrates. <i>Nano Letters</i> , 2022, 22, 3620-3627.	4.5	46
261	Antimicrobial resistance in the times of COVID-19 in a roman teaching hospital. <i>International Journal of Transgender Health</i> , 2022, 15, 452-457.	1.1	1
262	Evaluation of the QIAstat-Dx RP2.0 and the BioFire FilmArray RP2.1 for the Rapid Detection of Respiratory Pathogens Including SARS-CoV-2. <i>Frontiers in Microbiology</i> , 2022, 13, 854209.	1.5	6
263	Aptamers as promising nanotheranostic tools in the COVID-19 pandemic era. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1785.	3.3	13
264	A method comparison study of the high throughput automated HISCL [®] SARS-CoV-2 antigen assay using nasopharyngeal swab samples from symptomatic and asymptomatic subjects against conventional RT-PCR. <i>Journal of Medical Virology</i> , 2022, 94, 3070-3080.	2.5	3
265	Strategies for Scaling up SARS-CoV-2 Molecular Testing Capacity. <i>Clinics in Laboratory Medicine</i> , 2022, 42, 261-282.	0.7	5
267	Comparison of extraction-based and elution-based polymerase chain reaction testing, and automated and rapid antigen testing for the diagnosis of severe acute respiratory syndrome coronavirus 2. <i>Journal of Medical Virology</i> , 2022, , .	2.5	2
268	China's NMPA perspective on the clinical performance of SARS-CoV-2 antigen test reagents. <i>Bioanalysis</i> , 2022, 14, 317-324.	0.6	2
269	Screening of Bioactive Fraction of Radix Paeoniae Alba and Enhancing Anti-Allergic Asthma by Stir-Frying Through Regulating PI3K/AKT Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2022, 13, 863403.	1.6	6
270	Sequential development of several RT-qPCR tests using LNA nucleotides and dual probe technology to differentiate SARS-CoV-2 from influenza A and B. <i>Microbial Biotechnology</i> , 2022, 15, 1995-2021.	2.0	6
271	Electrochemical Immunoassay for the Detection of SARS-CoV-2 Nucleocapsid Protein in Nasopharyngeal Samples. <i>Analytical Chemistry</i> , 2022, 94, 4712-4719.	3.2	31
272	Investigating underlying human immunity genes, implicated diseases and their relationship to COVID-19. <i>Personalized Medicine</i> , 2022, , .	0.8	2
273	SARS-CoV-2 origin, myths and diagnostic technology developments. <i>Egyptian Journal of Medical Human Genetics</i> , 2022, 23, .	0.5	2
274	Two-test algorithms for infectious disease diagnosis: Implications for COVID-19. <i>PLOS Global Public Health</i> , 2022, 2, e0000293.	0.5	4
275	Evaluation of Pre-Analytical and Analytical Methods for Detecting SARS-CoV-2 in Municipal Wastewater Samples in Northern Italy. <i>Water (Switzerland)</i> , 2022, 14, 833.	1.2	8
276	Recent advances in carbon quantum dots for virus detection, as well as inhibition and treatment of viral infection. <i>Nano Convergence</i> , 2022, 9, 15.	6.3	40
277	Assessment of COVID-19 Molecular Testing Capacity in Jordan: A Cross-Sectional Study at the Country Level. <i>Diagnostics</i> , 2022, 12, 909.	1.3	5

#	ARTICLE	IF	CITATIONS
278	Challenges and complexities in evaluating severe acute respiratory syndrome coronavirus 2 molecular diagnostics during the COVID-19 pandemic. African Journal of Laboratory Medicine, 2022, 11, 1429.	0.2	3
279	Triage in the time of COVID-19. The Lancet Digital Health, 2022, 4, e210-e211.	5.9	5
280	Comparison of the clinical sensitivity and specificity of two commercial RNA SARS-CoV-2 assays. International Journal of Infectious Diseases, 2022, 118, 194-196.	1.5	1
281	Isothermal amplification-assisted diagnostics for COVID-19. Biosensors and Bioelectronics, 2022, 205, 114101.	5.3	40
282	Prospects of NIR fluorescent nanosensors for green detection of SARS-CoV-2. Sensors and Actuators B: Chemical, 2022, 362, 131764.	4.0	11
283	Probing the mutation independent interaction of DNA probes with SARS-CoV-2 variants through a combination of surface-enhanced Raman scattering and machine learning. Biosensors and Bioelectronics, 2022, 208, 114200.	5.3	31
284	Evolution of COVID-19 Testing and the Role of Rapid Antigen Testing in a Molecular-Focused World. Archives of Pathology and Laboratory Medicine, 2022, 146, 404-406.	1.2	2
285	Rapid Visual CRISPR Assay: A Naked-Eye Colorimetric Detection Method for Nucleic Acids Based on CRISPR/Cas12a and a Convolutional Neural Network. ACS Synthetic Biology, 2022, 11, 383-396.	1.9	30
287	SARS-CoV-2 Variant Screening Using a Virus-Receptor-Based Electrical Biosensor. Nano Letters, 2022, 22, 50-57.	4.5	28
290	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
291	Variáveis associadas ao desfecho clínico de pacientes hospitalizados por COVID-19. , 2021, 100, 431-441.	0.0	1
293	Evolving Applications of Artificial Intelligence and Machine Learning in Infectious Diseases Testing. Clinical Chemistry, 2021, 68, 125-133.	1.5	27
294	LAMP assay is an auxiliary tool for rapid and sensitive pathogen diagnosis in veterinary areas. , 2020, 20, 247-251.		2
295	Reopen Offline Business during a Pandemic? Characterization of Health Certificate Exchange for Human Movement Management. , 2021, , .		0
296	Presumed Post COVID- Infection Retinitis – Clinical and Tomographic Features of Retinitis as a Post-COVID Syndrome. Ocular Immunology and Inflammation, 2022, , 1-5.	1.0	3
297	Potentiometric Biosensors Based on Molecular-Imprinted Self-Assembled Monolayer Films for Rapid Detection of Influenza A Virus and SARS-CoV-2 Spike Protein. ACS Applied Nano Materials, 2022, 5, 5045-5055.	2.4	22
298	The Relationship Between Quality of Life and Coping Strategies in Hospitalized Patients with COVID-19. Middle East Journal of Rehabilitation and Health Studies, 2022, In Press, .	0.1	1
299	The challenge of SARS-CoV-2 environmental monitoring in schools using floors and portable HEPA filtration units: Fresh or relic RNA?. PLoS ONE, 2022, 17, e0267212.	1.1	11

#	ARTICLE	IF	CITATIONS
300	Fungal infection mimicking COVID-19 infection – A case report. <i>Open Medicine (Poland)</i> , 2022, 17, 841-846.	0.4	1
301	Associations between Serum Interleukins (IL-1 ^β , IL-2, IL-4, IL-6, IL-8, and IL-10) and Disease Severity of COVID-19: A Systematic Review and Meta-Analysis. <i>BioMed Research International</i> , 2022, 2022, 1-15.	0.9	15
303	Performance Evaluation of a Rapid Antigen Test (RAT) during Omicron Pandemic Wave in Greece, Conducted by Different Personnel, and Comparison with Performance in Previous Wave (Alpha) <i>Tj ETQq0 0 0 rgBT Lock 10 Tf 50 65</i>	0.0	0
304	Mass screening is a key component to fight against SARS-CoV-2 and return to normalcy. <i>Medical Review</i> , 2022, 2, 197-212.	0.3	4
305	Validation of GeneFinder COVID-19 Ag Plus Rapid Test and Its Potential Utility to Slowing Infection Waves: A Single-Center Laboratory Evaluation Study. <i>Diagnostics</i> , 2022, 12, 1126.	1.3	3
306	Update on the Development of Toehold Switch-Based Approach for Molecular Diagnostic Tests of COVID-19. <i>Journal of Nucleic Acids</i> , 2022, 2022, 1-7.	0.8	1
307	Antigen Detection Tests for SARS-CoV-2: a systematic review and meta-analysis on real world data.. <i>Acta Biomedica</i> , 2022, 93, e2022036.	0.2	4
308	AI in Combating the COVID-19 Pandemic. <i>IEEE Intelligent Systems</i> , 2022, 37, 3-13.	4.0	12
309	Combining rapid antigen testing and syndromic surveillance improves community-based COVID-19 detection in a low-income country. <i>Nature Communications</i> , 2022, 13, .	5.8	7
310	Saliva as an alternative specimen to nasopharyngeal swabs for COVID-19 diagnosis: Review. <i>Access Microbiology</i> , 2022, 4, .	0.2	7
311	Sensitive and reproducible detection of SARS-CoV-2 using SERS-based microdroplet sensor. <i>Chemical Engineering Journal</i> , 2022, 446, 137085.	6.6	23
312	Lab on Fiber Technology Towards Advanced and Multifunctional Point-of-Care Platforms for Precision Medicine. , 2023, , 504-527.		0
313	Advancing microfluidic diagnostic chips into clinical use: a review of current challenges and opportunities. <i>Lab on A Chip</i> , 2022, 22, 3110-3121.	3.1	14
314	Identification of SARS-CoV-2 by Gold Nanoparticles. <i>Biocell</i> , 2022, .	0.4	0
315	Deep Learning Techniques for Image Classification of COVID-19 – A Survey. , 2022, , .		0
318	Clinical Validation of a Rapid Variant-Proof RT-RPA Assay for the Detection of SARS-CoV-2. <i>Diagnostics</i> , 2022, 12, 1263.	1.3	13
320	A pragmatic approach for dynamically incorporating predicate device data in prospective diagnostic test studies. <i>Journal of Biopharmaceutical Statistics</i> , 0, , 1-13.	0.4	0
321	THE EFFECT OF COVID-19 TEST CANCELLATION ON HEALTH CARE WORKERS ' REMUNERATION. <i>International Journal of Social Science</i> , 2022, 2, 1137-1144.	0.0	0

#	ARTICLE	IF	CITATIONS
322	Rapid and Sensitive Detection of Antigen from SARS-CoV-2 Variants of Concern by a Multivalent Minibinder-Functionalized Nanomechanical Sensor. <i>Analytical Chemistry</i> , 2022, 94, 8105-8109.	3.2	6
323	A paper-based optical sensor for the screening of viruses through the cysteine residues of their surface proteins: A proof of concept on the detection of coronavirus infection. <i>Talanta</i> , 2022, 248, 123630.	2.9	4
324	Screening for SARS-CoV-2 in close contacts of individuals with confirmed infection: performance and operational considerations. <i>Journal of Infectious Diseases</i> , 0, , .	1.9	3
326	Enterococcus and COVID-19: The Emergence of a Perfect Storm?. <i>International Journal of Translational Medicine</i> , 2022, 2, 220-229.	0.1	4
327	Point-of-care COVID-19 testing: colorimetric diagnosis using rapid and ultra-sensitive ramified rolling circle amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5907-5915.	1.9	9
328	Regional Anesthesia in Times of COVID-19. , 0, , .		0
329	Direct NP- A cost-effective extraction-free RT-qPCR based test for SARS-CoV-2. <i>Heliyon</i> , 2022, 8, e09735.	1.4	2
330	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
331	COVID-19: Clinical laboratory diagnosis and monitoring of novel coronavirus infected patients using molecular, serological and biochemical markers: A review. <i>International Journal of Immunopathology and Pharmacology</i> , 2022, 36, 039463202211153.	1.0	5
332	Sensing of COVID-19 spike protein in nasopharyngeal samples using a portable surface plasmon resonance diagnostic system. <i>Sensors & Diagnostics</i> , 2022, 1, 1021-1031.	1.9	8
333	Comparison of Laboratory Tests Applied for Diagnosing the SARS-CoV-2 Infection. <i>Korean Journal of Clinical Laboratory Science</i> , 2022, 54, 79-94.	0.1	0
334	A Regional Pooling Intervention in a High-Throughput COVID-19 Diagnostic Laboratory to Enhance Throughput, Save Resources and Time Over a Period of 6 Months. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
335	The Detection of SARS-CoV2 Antigen in Wastewater Using an Automated Chemiluminescence Enzyme Immunoassay. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 7783.	1.2	3
336	Volatolomics in healthcare and its advanced detection technology. <i>Nano Research</i> , 2022, 15, 8185-8213.	5.8	30
337	Effective high-throughput RT-qPCR screening for SARS-CoV-2 infections in children. <i>Nature Communications</i> , 2022, 13, .	5.8	14
338	Validation of the NeuMoDxâ„¢ SARS-CoV-2 assay with COPAN eNATÂ® and E&#amp;O Viral PCR Sample Solution collection media types in comparison with other validated SARS-CoV-2 RNA assays. <i>International Journal of Infectious Diseases</i> , 2022, 122, 864-866.	1.5	1
339	Evaluation of the artusÂ® Prep&#amp; Amp UM RT-PCR for detection of SARS-CoV-2 from nasopharyngeal swabs without prior nucleic acid eluate extraction. <i>Journal of Clinical Virology Plus</i> , 2022, , 100098.	0.4	0
340	An RBD-Based Diagnostic Method Useful for the Surveillance of Protective Immunity against SARS-CoV-2 in the Population. <i>Diagnostics</i> , 2022, 12, 1629.	1.3	5

#	ARTICLE	IF	CITATIONS
341	Harmonizing the COVID-19 sample biobanks: Barriers and opportunities for standards, best practices and networks. <i>Biosafety and Health</i> , 2022, , .	1.2	3
342	The relative contribution of climatic, demographic factors, disease control measures and spatiotemporal heterogeneity to variation of global COVID-19 transmission. <i>GeoHealth</i> , 0, , .	1.9	0
343	pH-responsive glycine functionalized magnetic iron oxide nanoparticles for SARS-CoV-2 RNA extraction from clinical sample. <i>Journal of Materials Science</i> , 2022, 57, 13620-13631.	1.7	5
344	Diagnostic utility and performance of rapid antigen test in SARS CoV- 2 in symptomatic and asymptomatic patients during the second pandemic wave in Kashmir, North India. <i>Indian Journal of Medical Microbiology</i> , 2022, 40, 572-576.	0.3	3
345	Evaluating Saliva Sampling with Reverse Transcription Loop-mediated Isothermal Amplification to Improve Access to SARS-CoV-2 Diagnosis in Low-Resource Settings. <i>American Journal of Tropical Medicine and Hygiene</i> , 2022, , .	0.6	0
346	Microwave-Assisted Solvent Bonding for Polymethyl Methacrylate Microfluidic Device. <i>Micromachines</i> , 2022, 13, 1131.	1.4	2
347	Current landscape of gene editing technology in biomedicine: Applications, advantages, challenges, and perspectives. <i>MedComm</i> , 2022, 3, .	3.1	2
349	Modular micro-PCR system for the onsite rapid diagnosis of COVID-19. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	12
350	Does money buy health? evaluation of stock market performance and economic growth in the wake of the COVID-19 pandemic. <i>PLoS ONE</i> , 2022, 17, e0269879.	1.1	0
351	A handheld intelligent single-molecule binary bioelectronic system for fast and reliable immunometric point-of-care testing. <i>Science Advances</i> , 2022, 8, .	4.7	33
352	Smart Approach for the Design of Highly Selective Aptamer-Based Biosensors. <i>Biosensors</i> , 2022, 12, 574.	2.3	16
353	Evaluation of filter paper to transport oro/nasopharyngeal samples to detect SARS-CoV-2 by RT-qPCR. <i>Journal of Virological Methods</i> , 2022, 308, 114587.	1.0	0
354	Point-of-care SARS-CoV-2 sensing using lens-free imaging and a deep learning-assisted quantitative agglutination assay. <i>Lab on A Chip</i> , 2022, 22, 3744-3754.	3.1	10
355	Diagnostic Tools for Rapid Screening and Detection of SARS-CoV-2 Infection. <i>Vaccines</i> , 2022, 10, 1200.	2.1	9
356	Plasmonic Approaches for the Detection of SARS-CoV-2 Viral Particles. <i>Biosensors</i> , 2022, 12, 548.	2.3	7
357	Appraisal of SARS-CoV-2 mutations and their impact on vaccination efficacy: an overview. <i>Journal of Diabetes and Metabolic Disorders</i> , 2022, 21, 1763-1783.	0.8	4
358	Results of a European-Wide External Quality Assessment (EQA) Scheme for Serological Detection of Anti-SARS-CoV-2 (CoVimm) – Pitfalls of Routine Application. <i>Viruses</i> , 2022, 14, 1662.	1.5	2
359	A comparison of Covid-19 early detection between convolutional neural networks and radiologists. <i>Insights Into Imaging</i> , 2022, 13, .	1.6	2

#	ARTICLE	IF	CITATIONS
360	From Prevention to Therapy: A Roadmap of Nanotechnologies to Stay Ahead of Future Pandemics. ACS Nano, 2022, 16, 9985-9993.	7.3	5
361	Label-free optical biosensors in the pandemic era. Nanophotonics, 2022, 11, 4159-4181.	2.9	6
362	Pathogen Profile of Children Hospitalised with Severe Acute Respiratory Infections during COVID-19 Pandemic in the Free State Province, South Africa. International Journal of Environmental Research and Public Health, 2022, 19, 10418.	1.2	12
363	Time Lag between COVID-19 Diagnosis and Symptoms Onset for Different Population Groups: Evidence That Self-Testing in Schools Was Associated with Timely Diagnosis among Children. Life, 2022, 12, 1305.	1.1	3
364	Diagnostic Approaches For COVID-19: Lessons Learned and the Path Forward. ACS Nano, 2022, 16, 11545-11576.	7.3	18
365	Self-Assembly of DNA Tiles with G-Quadruplex DNAzyme Catalytic Activity for Sensing Applications. ACS Applied Bio Materials, 2022, 5, 3788-3794.	2.3	2
366	A Self-Immolative Fluorescent Probe for Selective Detection of SARS-CoV-2 Main Protease. Analytical Chemistry, 2022, 94, 11728-11733.	3.2	5
367	Electrochemical Biosensor for SARS-CoV-2 cDNA Detection Using AuPs-Modified 3D-Printed Graphene Electrodes. Biosensors, 2022, 12, 622.	2.3	25
368	Unveiling the underpinnings of various non-conventional ELISA variants: a review article. Expert Review of Molecular Diagnostics, 2022, 22, 761-774.	1.5	7
369	A point-of-care biosensor for rapid and ultra-sensitive detection of SARS-CoV-2. Matter, 2022, 5, 2402-2404.	5.0	4
370	Rapid detection of SARS-CoV-2 RNA in saliva via Cas13. Nature Biomedical Engineering, 2022, 6, 944-956.	11.6	59
372	Performance of saliva compared with nasopharyngeal swab for diagnosis of COVID-19 by NAAT in cross-sectional studies: Systematic review and meta-analysis. Clinical Biochemistry, 2022, , .	0.8	4
373	Evaluation of the effectiveness of surveillance policies to control the COVID-19 pandemic in São Paulo, Brazil. Global Health Research and Policy, 2022, 7, .	1.4	2
374	Potential of ATR-FTIR “Chemometrics in Covid-19: Disease Recognition. ACS Omega, 2022, 7, 30756-30767.	1.6	2
375	Miniaturized Raman Instruments for SERS-Based Point-of-Care Testing on Respiratory Viruses. Biosensors, 2022, 12, 590.	2.3	18
376	<sc>The National Laboratory Response to the COVID-</sc>19 <sc>Pandemic in Taiwan</sc>. Health Security, 0, , .	0.9	0
377	Absence of Mortality Differences Between the First and Second COVID-19 Waves in Kidney Transplant Recipients. Kidney International Reports, 2022, 7, 2617-2629.	0.4	3
378	Capturing nucleic acid variants with precision using CRISPR diagnostics. Biosensors and Bioelectronics, 2022, 217, 114712.	5.3	4

#	ARTICLE	IF	CITATIONS
379	Impact of spatiotemporal heterogeneity in COVID-19 disease surveillance on epidemiological parameters and case growth rates. <i>Epidemics</i> , 2022, 41, 100627.	1.5	1
380	Selection and characterisation of bioreceptors to develop nanoparticle-based lateral-flow immunoassays in the context of the SARS-CoV-2 outbreak. <i>Lab on A Chip</i> , 2022, 22, 2938-2943.	3.1	5
381	Leveraging International Influenza Surveillance Systems and Programs during the COVID-19 Pandemic. <i>Emerging Infectious Diseases</i> , 2022, 28, .	2.0	8
382	Point-of-Care Testing of COVID-19: Current Status, Clinical Impact, and Future Therapeutic Perspectives. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2022, , 1-70.	0.2	2
383	Modeling the optimization of COVID-19 pooled testing: How many samples can be included in a single test?. <i>Informatics in Medicine Unlocked</i> , 2022, 32, 101037.	1.9	3
384	Health Certificate Exchange for Travel Management in Pandemic: Review and Perspectives. <i>IEEE Transactions on Computational Social Systems</i> , 2022, , 1-18.	3.2	0
385	COVID-19 in Children and Newborn. , 2022, , 305-342.		0
389	False positive serology of pre-pandemic chagasic samples with SARS-CoV-2 antigen. <i>Tropical Medicine and International Health</i> , 0, , .	1.0	1
390	Development and Validation of Reverse Transcriptase Loop-Mediated Isothermal Amplification (RT-LAMP) as a Simple and Rapid Diagnostic Tool for SARS-CoV-2 Detection. <i>Diagnostics</i> , 2022, 12, 2232.	1.3	7
391	Laboratory and field evaluation of the STANDARD Q and Panbio SARS-CoV-2 antigen rapid test in Namibia using nasopharyngeal samples. <i>PLoS ONE</i> , 2022, 17, e0269329.	1.1	5
392	Dynamics of changes in the number of SARS-CoV-2 seropositive patients over two years of the COVID-19 pandemic. <i>Russian Journal of Immunology: RJ: Official Journal of Russian Society of Immunology</i> , 2022, 25, 219-226.	0.2	0
393	A Data Science Approach to Evaluate Drug Effectiveness: Case Study of Remdesivir for Covid-19 Patients in India. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2023, , 691-712.	0.5	0
394	Clinical evaluation of an automated, rapid multiplex antigen test in screening of symptomatic and asymptomatic for SARS-CoV-2 infection. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	1
395	Microbiological and Clinical Findings of SARS-CoV-2 Infection after 2 Years of Pandemic: From Lung to Gut Microbiota. <i>Diagnostics</i> , 2022, 12, 2143.	1.3	4
396	Guiding organisational decision-making about COVID-19 asymptomatic testing in workplaces: mixed-method study to inform an ethical framework. <i>BMC Public Health</i> , 2022, 22, .	1.2	1
397	Comparative performance data for multiplex SARS-CoV-2 serological assays from a large panel of dried blood spot specimens. <i>Heliyon</i> , 2022, 8, e10270.	1.4	5
398	Clinical impact of the rapid molecular detection of RSV and influenza A and B viruses in the emergency department. <i>PLoS ONE</i> , 2022, 17, e0274222.	1.1	6
399	Capillary-Assisted Molecular Pendulum Bioanalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 18338-18349.	6.6	11

#	ARTICLE	IF	CITATIONS
400	Laboratory detection of SARS-CoV-2: A review of the current literature and future perspectives. <i>Heliyon</i> , 2022, 8, e10858.	1.4	3
401	COVID-19 diagnosis: lessons to learn and hints for preparedness. <i>Expert Review of Molecular Diagnostics</i> , 2022, 22, 851-853.	1.5	2
402	A rapid One-Pot RNA isolation method for simplified clinical detection of SARS-COV-2 infection in India. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	0
403	Ultraminiature optical fiber-tip directly-printed plasmonic biosensors for label-free biodetection. <i>Biosensors and Bioelectronics</i> , 2022, 218, 114761.	5.3	8
404	Evaluation of D-Dimer and Neutrophil/Lymphocyte Ratios of COVID-19 Patients Whom Applied to Karapınar State Hospital. <i>Clinical and Experimental Health Sciences</i> , 0, , .	0.1	0
405	RPA-ligation-qPCR combined method for genotyping the SARS-CoV-2 key mutation E484Q. <i>Acta Biochimica Et Biophysica Sinica</i> , 2022, 54, 1924-1927.	0.9	1
406	Comparison and Harmonization of Different Semi-Automated and Automated qRT-PCR Assays in the Assessment of SARS-CoV-2. <i>Viruses</i> , 2022, 14, 2239.	1.5	2
407	Measuring the Impact of Future Outbreaks? A Secondary Analysis of Routinely Available Data in Spain. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 13981.	1.2	0
408	Translational gaps and opportunities for medical wearables in digital health. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	30
409	Characterization and application of a series of monoclonal antibodies against SARS-CoV-2 nucleocapsid protein. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	1
410	Strategies for Using Antigen Rapid Diagnostic Tests to Reduce Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 in Low- and Middle-Income Countries: A Mathematical Modelling Study Applied to Zambia. <i>Clinical Infectious Diseases</i> , 2023, 76, 620-630.	2.9	10
412	Model training periods impact estimation of COVID-19 incidence from wastewater viral loads. <i>Science of the Total Environment</i> , 2023, 858, 159680.	3.9	11
413	Predictive models for COVID-19 detection using routine blood tests and machine learning. <i>Heliyon</i> , 2022, 8, e11185.	1.4	7
414	SARS-COV-2 Pandemic: How to Maintain a COVID-free Hospital. <i>Infectious Diseases</i> , 0, , .	4.0	0
415	The development and improvement of immunodeficient mice and humanized immune system mouse models. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	28
416	Wearable respiratory sensors for COVID-19 monitoring. <i>View</i> , 2022, 3, .	2.7	10
417	RT-LAMP in SARS-CoV-2 detection: point to improve primer designing and decrease molecular diagnosis pitfalls. <i>Expert Review of Molecular Diagnostics</i> , 0, , 1-9.	1.5	0
418	Smart healthcare: A prospective future medical approach for COVID-19. <i>Journal of the Chinese Medical Association</i> , 2023, 86, 138-146.	0.6	7

#	ARTICLE	IF	CITATIONS
419	Recent review of COVID-19 management: diagnosis, treatment and vaccination. <i>Pharmacological Reports</i> , 2022, 74, 1120-1148.	1.5	37
421	Modeling Key Strategies for Reducing Socio-Economic and Health Crisis: Perspective from COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 14127.	1.2	0
422	Progression of LAMP as a Result of the COVID-19 Pandemic: Is PCR Finally Rivalled?. <i>Biosensors</i> , 2022, 12, 492.	2.3	6
423	AI and the Infectious Medicine of COVID-19. , 2022, , 157-168.		1
424	Identification of a rare SARS-CoV-2 XL hybrid variant in wastewater and the subsequent discovery of two infected individuals in Nevada. <i>Science of the Total Environment</i> , 2023, 858, 160024.	3.9	5
425	Ferrobotic swarms enable accessible and adaptable automated viral testing. <i>Nature</i> , 2022, 611, 570-577.	13.7	23
426	Effectiveness of Bacille Calmette-Guerin vaccination policies in reducing infection and mortality of COVID-19: a systematic review. <i>Global Health Research and Policy</i> , 2022, 7, .	1.4	0
427	Modeling optimal reopening strategies for COVID-19 and its variants by keeping infections low and fixing testing capacity. <i>PLoS ONE</i> , 2022, 17, e0274407.	1.1	2
428	Angiotensin-Converting Enzyme 2-Based Biosensing Modalities and Devices for Coronavirus Detection. <i>Biosensors</i> , 2022, 12, 984.	2.3	3
429	Synthesis of Molecularly Imprinted Polymer Nanoparticles for SARS-CoV-2 Virus Detection Using Surface Plasmon Resonance. <i>Chemosensors</i> , 2022, 10, 459.	1.8	14
430	A sample-to-answer COVID-19 diagnostic device based on immiscible filtration and CRISPR-Cas12a-assisted detection. <i>Talanta Open</i> , 2022, 6, 100166.	1.7	6
431	A systematic review of strategies adopted to scale up COVID-19 testing in low-, middle- and high-income countries. <i>BMJ Open</i> , 2022, 12, e060838.	0.8	5
432	SARS-CoV-2 RNA levels in Scotland's wastewater. <i>Scientific Data</i> , 2022, 9, .	2.4	4
433	Hybrid Opto-Thermocycler for RT-qPCR Detects SARS-CoV-2. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	1
434	Self-directed molecular diagnostics (SdMDx) system for COVID-19 via one-pot processing. <i>Sensors and Actuators B: Chemical</i> , 2023, 378, 133193.	4.0	0
435	Automated System for Multiplexing Detection of COVID-19 and Other Respiratory Pathogens. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2023, 11, 424-434.	2.2	0
436	Progress on COVID-19 Chemotherapeutics Discovery and Novel Technology. <i>Molecules</i> , 2022, 27, 8257.	1.7	4
438	Portable, Automated and Deep Learning-Enabled Microscopy for Smartphone-Tethered Optical Platform Towards Remote Homecare Diagnostics: A Review. <i>Small Methods</i> , 2023, 7, .	4.6	7

#	ARTICLE	IF	CITATIONS
439	Toward Rapid and Accurate Molecular Diagnostics at Home. <i>Advanced Materials</i> , 2023, 35, .	11.1	6
440	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
441	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
442	Stainless Steel Foil-Based Label-Free Modular Thin-Film Electrochemical Detector for Solvent Identification. <i>Micromachines</i> , 2022, 13, 2256.	1.4	0
443	Cost-Effective and Robust Multispectral Light-Emitting Diode Device for the Readout of Plasmonic Microarray Sensors. <i>Advanced Photonics Research</i> , 0, , 2200252.	1.7	1
444	Loop-Mediated Isothermal Amplification: From Theory to Practice. <i>Russian Journal of Bioorganic Chemistry</i> , 2022, 48, 1159-1174.	0.3	3
445	Accuracy of serological tests for COVID-19: A systematic review and meta-analysis. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	14
446	Expert considerations and consensus for using dogs to detect human SARS-CoV-2-infections. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	7
447	Development of a Single-Chain Variable Fragment of CR3022 for a Plasmonic-Based Biosensor Targeting the SARS-CoV-2 Spike Protein. <i>Biosensors</i> , 2022, 12, 1133.	2.3	2
448	Potential of vibrational spectroscopy coupled with machine learning as a non-invasive diagnostic method for COVID-19. <i>Computer Methods and Programs in Biomedicine</i> , 2023, 229, 107295.	2.6	8
449	Um Caso de Pneumonia Atípica por COVID-19 Grave e Reação Cruzada com <i>Coxiella burnetii</i> . <i>Acta Medica Portuguesa</i> , 2022, 35, 930-931.	0.2	1
450	Using the Intra-Action Review Methodology at European Level to Assess Effectiveness of Measures for Cruise Ship Operations in the COVID-19 Context. , 0, , .		2
451	Lessons from COVID-19 for improving diagnostic access in future pandemics. <i>Lab on A Chip</i> , 2023, 23, 1376-1388.	3.1	3
452	Engineering At-Home Dilution and Filtration Methods to Enable Paper-Based Colorimetric Biosensing in Human Blood with Cell-Free Protein Synthesis. <i>Biosensors</i> , 2023, 13, 104.	2.3	2
454	COVID-19 surveillance in wastewater: An epidemiological tool for the monitoring of SARS-CoV-2. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	13
455	Performance evaluation of the Ortho VITROS SARS-CoV-2 Spike-Specific Quantitative IgG test by comparison with the surrogate virus neutralizing antibody test and clinical assessment. <i>PLoS ONE</i> , 2023, 18, e0279779.	1.1	2
456	Promise and perils of paper-based point-of-care nucleic acid detection for endemic and pandemic pathogens. <i>Lab on A Chip</i> , 2023, 23, 888-912.	3.1	9
457	Stability of the COVID-19 At-Home Test after Exposure to Extreme Temperatures. <i>Microbiology Spectrum</i> , 2023, 11, .	1.2	1

#	ARTICLE	IF	CITATIONS
458	Saliva-based microfluidic point-of-care diagnostic. <i>Theranostics</i> , 2023, 13, 1091-1108.	4.6	19
459	Pediatric biobanks to enhance clinical and translational research for children. <i>European Journal of Pediatrics</i> , 2023, 182, 1459-1468.	1.3	2
460	Lateral flow test engineering and lessons learned from COVID-19. , 2023, 1, 13-31.		47
461	Breath Analysis of COVID-19 Patients in a Tertiary UK Hospital by Optical Spectrometry: The E-Nose CoVal Study. <i>Biosensors</i> , 2023, 13, 165.	2.3	5
462	Progression of Paper-Based Point-of-Care Testing toward Being an Indispensable Diagnostic Tool in Future Healthcare. <i>Analytical Chemistry</i> , 2023, 95, 1785-1793.	3.2	10
463	The Need and a Vision for a Diagnostic Assay Validation Network. <i>PhytoFrontiers</i> , 0, , .	0.8	1
464	Inexpensive High-Throughput Multiplexed Biomarker Detection Using Enzymatic Metallization with Cellphone-Based Computer Vision. <i>ACS Sensors</i> , 2023, 8, 534-542.	4.0	3
465	State of the art in epitope mapping and opportunities in COVID-19. <i>Future Science OA</i> , 2023, 9, .	0.9	4
466	Detection of live SARS-CoV-2 virus and its variants by specially designed SERS-active substrates and spectroscopic analyses. <i>Analytica Chimica Acta</i> , 2023, 1256, 341151.	2.6	2
467	Paper microfluidics with deep learning for portable intelligent nucleic acid amplification tests. <i>Talanta</i> , 2023, 258, 124470.	2.9	3
468	Review on security of federated learning and its application in healthcare. <i>Future Generation Computer Systems</i> , 2023, 144, 271-290.	4.9	21
469	A lightweight CORONA-NET for COVID-19 detection in X-ray images. <i>Expert Systems With Applications</i> , 2023, 225, 120023.	4.4	2
470	SERS-ELISA using silica-encapsulated Au core-satellite nanotags for sensitive detection of SARS-CoV-2. <i>Sensors and Actuators B: Chemical</i> , 2023, 382, 133521.	4.0	13
471	Ultra-sensitive specific detection of nucleic acids in pathogenic infections by Ta2C-MXene sensitization-based ultrafine plasmon spectroscopy combs. <i>Sensors and Actuators B: Chemical</i> , 2023, 387, 133785.	4.0	2
472	SARS-CoV-2 Seroprevalence in a Cohort of International Travellers Returning to Rural Australia: Enablers and Barriers to Containment of COVID-19. <i>Australian and New Zealand Journal of Public Health</i> , 2023, 47, 100003.	0.8	0
473	From Biowaste to Lab-Bench: Low-Cost Magnetic Iron Oxide Nanoparticles for RNA Extraction and SARS-CoV-2 Diagnostics. <i>Biosensors</i> , 2023, 13, 196.	2.3	6
474	Malachite Green-Based Detection of SARS-CoV-2 by One-Step Reverse Transcription Loop-Mediated Isothermal Amplification. , 2023, 47, 359-367.		1
475	Conventional and Novel Diagnostic Tools for the Diagnosis of Emerging SARS-CoV-2 Variants. <i>Vaccines</i> , 2023, 11, 374.	2.1	10

#	ARTICLE	IF	CITATIONS
476	Practical problems and responses for SARS-CoV-2 laboratory testing during the COVID-19 pandemic. <i>Clinical Microbiology and Infection</i> , 2023, , .	2.8	0
477	Microbead-based extracorporeal immuno-affinity virus capture: a feasibility study to address the SARS-CoV-2 pandemic. <i>Mikrochimica Acta</i> , 2023, 190, .	2.5	0
478	Evaluating SARS-CoV-2 antibody reactivity to natural exposure and inactivated vaccination with peptide microarrays. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	0
479	Progress and bioapplication of CRISPR-based one-step, quantitative and multiplexed infectious disease diagnostics. <i>Journal of Applied Microbiology</i> , 2023, 134, .	1.4	3
480	<i>Infecties (COVID-19)</i> . , 2022, , 311-323.		0
481	Immunological considerations for laboratory staff and COVID-19 biosafety. <i>Biosafety and Health</i> , 2023, , .	1.2	0
482	Sniffer dogs performance is stable over time in detecting COVID-19 positive samples and agrees with the rapid antigen test in the field. <i>Scientific Reports</i> , 2023, 13, .	1.6	5
483	MXene-Based Aptameric Fluorosensor for Sensitive and Rapid Detection of COVID-19. <i>Small</i> , 2023, 19, .	5.2	6
484	EI-IoT: Edge-Enabled Intelligent IoT Framework for Early Detection of COVID-19 Threats. <i>Sensors</i> , 2023, 23, 2995.	2.1	3
485	Cost and performance analysis of efficiency, efficacy, and effectiveness of viral RNA isolation with commercial kits and Heat Shock as an alternative method to detect SARS-CoV-2 by RT-PCR. <i>Revista Bionatura</i> , 2023, 8, 1-10.	0.1	0
486	Ultrasmall <i>Cortex Moutan</i> Nanoclusters for the Therapy of Pneumonia and Colitis. <i>Advanced Healthcare Materials</i> , 0, , 2300402.	3.9	0
487	Dynamic Tuning of Plasmonic Hot-Spot Generation through Cilia-Inspired Magnetic Actuators. <i>Advanced Intelligent Systems</i> , 2023, 5, .	3.3	1
488	PCR-like performance of rapid test with permselective tunable nanotrap. <i>Nature Communications</i> , 2023, 14, .	5.8	7
489	The Effect of the Immunization Schedule and Antibody Levels (Anti-S) on the Risk of SARS-CoV-2 Infection in a Large Cohort of Healthcare Workers in Northern Italy. <i>Vaccines</i> , 2023, 11, 746.	2.1	4
490	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
491	Enhancement of SARS-CoV-2 infection and growth by an ACE2-specific monoclonal antibody. <i>Journal of Medical Virology</i> , 2023, 95, .	2.5	0
492	Automatic diagnosis of COVID-19 related respiratory diseases from speech. <i>Multimedia Tools and Applications</i> , 2023, 82, 36599-36614.	2.6	1
493	Occurrence of False Positive Tests and Cross-Reactions Between COVID-19 and Dengue With Implications During Diagnosis: A Mixed Evidence Synthesis. <i>Infectious Microbes & Diseases</i> , 0, Publish Ahead of Print, .	0.5	1

#	ARTICLE	IF	CITATIONS
494	Amplification-free Detection of SARS-CoV-2 Down to Single Virus Level by Portable Carbon Nanotube Biosensors. <i>Small</i> , 2023, 19, .	5.2	7
495	How Far for the Electronic Skin: From Multifunctional Material to Advanced Applications. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	9
500	Fourier-Transform Infrared Spectroscopy and Spectromicroscopy Studies for Diagnosis of Covid-19 Infection. , 2023, , 1-14.		0
531	Micro- and Nanosystems for the Detection of Hemorrhagic Fever Viruses. <i>Lab on A Chip</i> , 0, , .	3.1	0
546	SARS-COV-2 detection in MALDI-TOF mass spectra by machine learning. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
551	Aggregation-induced emission: recent applications in infectious diseases. <i>Science China Chemistry</i> , 2023, 66, 2986-3005.	4.2	2
563	AI based detection of COVID-19 pneumonia in chest X-ray images using ResNet50. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
573	Development of an iOS Application Leveraging PalmSens MethodSCRIPT for Rapid COVID-19 Detection. , 2023, , .		0
581	Digital conversion and scaling of IgM and IgG antibody test results in COVID-19 diseases. , 2024, , 253-267.		0
583	An intelligent cylindrical reflector for airborne virus detection. , 2023, , .		0