

# CITATION REPORT

List of articles citing

Hydrogel based QCM aptasensor for detection of avian influenza virus

DOI: 10.1016/j.bios.2012.10.038

Biosensors and Bioelectronics, 2013, 42, 148-55.

**Source:** <https://exaly.com/paper-pdf/55151625/citation-report.pdf>

**Version:** 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
182	Effect of lithium-potassium mixed alkali on spectroscopic properties of Er <sup>3+</sup> -doped aluminophosphate glasses. <b>2007</b> , 16, 1736-1742		
181	A trouble with Hořava-Lifshitz gravity. <b>2009</b> , 2009, 015-015		80
180	Attachment Instabilities of SF 6 Inductively Coupled Plasmas under Different Coupling Intensities. <b>2009</b> , 26, 065202		
179	High-Spin States in <sup>141</sup> Pm. <b>2012</b> , 14, 496-498		
178	Generation of anti-influenza aptamers using the systematic evolution of ligands by exponential enrichment for sensing applications. <b>2013</b> , 29, 15107-15		68
177	A novel biocompatible magnetic iron oxide nanoparticles/hydrogel based on poly (acrylic acid) grafted onto starch for controlled drug release. <b>2013</b> , 20, 1		38
176	An angular fluidic channel for prism-free surface-plasmon-assisted fluorescence capturing. <b>2013</b> , 4, 2855		62
175	Visual optical biosensors based on DNA-functionalized polyacrylamide hydrogels. <b>2013</b> , 64, 292-8		35
174	Silan based paraoxon memories onto QCM electrodes. <b>2013</b> , 19, 1788-1792		6
173	Highly sensitive localized surface plasmon resonance immunosensor for label-free detection of HIV-1. <b>2013</b> , 9, 1018-26		72
172	A portable impedance biosensor for detection of multiple avian influenza viruses. <b>2013</b> ,		2
171	Analysis of Vibration Coupling of QCM Sensor. <b>2013</b> , 791-793, 581-584		
170	Decoupling mass adsorption from fluid viscosity and density in quartz crystal microbalance measurements using normalized conductance modeling. <b>2013</b> , 24, 085301		14
169	A Portable Impedance Biosensing System based on a Laptop with LabVIEW for Detection of Avian Influenza Virus. <b>2014</b> ,		
168	A Double-Imprinted Diffraction-Grating Sensor Based on a Virus-Responsive Super-Aptamer Hydrogel Derived from an Impure Extract. <b>2014</b> , 126, 2127-2130		20
167	An immunosensor based on antibody binding fragments attached to gold nanoparticles for the detection of peptides derived from avian influenza hemagglutinin H5. <i>Sensors</i> , <b>2014</b> , 14, 15714-28	3.8	39
166	Sensing Viruses by Mechanical Tension of DNA in Responsive Hydrogels. <b>2014</b> , 4,		13

165	Paramagnetic Particles and PNA Probe for Automated Separation and Electrochemical Detection of Influenza. <b>2014</b> , 77, 1425-1432		2
164	Highly sensitive fluorescent immunosensor for detection of influenza virus based on Ag autocatalysis. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 358-64	11.8	42
163	A double-imprinted diffraction-grating sensor based on a virus-responsive super-aptamer hydrogel derived from an impure extract. <b>2014</b> , 53, 2095-8		109
162	DNA probe modified with 3-iron bis(dicarbollide) for electrochemical determination of DNA sequence of Avian Influenza Virus H5N1. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 51, 170-6	11.8	36
161	Enzyme linked aptamer assay: based on a competition format for sensitive detection of antibodies to Mycoplasma bovis in serum. <b>2014</b> , 86, 1701-9		22
160	Novel mass spectrometry technology development for large organic particle analysis. <i>RSC Advances</i> , <b>2014</b> , 4, 4523-4534	3.7	2
159	Deformation propagation in responsive polymer network films. <b>2014</b> , 141, 074903		10
158	DNA hydrogel by multicomponent assembly for encapsulation and killing of cells. <b>2014</b> , 6, 11823-8		19
157	Development of an aptamer-based impedimetric bioassay using microfluidic system and magnetic separation for protein detection. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 59, 106-11	11.8	30
156	Antibody modified gold nanoparticles for fast and selective, colorimetric T7 bacteriophage detection. <b>2014</b> , 25, 644-8		55
155	Exploiting enzyme catalysis in ultra-low ion strength media for impedance biosensing of avian influenza virus using a bare interdigitated electrode. <b>2014</b> , 86, 1965-71		65
154	Sensing strategies for influenza surveillance. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 61, 357-69	11.8	27
153	Rapid and Label-free Detection of Avian Influenza Virus H5N1 using a Target-responsive Hydrogel based Fluorescence Aptasensor. <b>2015</b> ,		
152	An Impedance Aptasensor with Microfluidic Chips for Specific Detection of H5N1 Avian Influenza Virus. <i>Sensors</i> , <b>2015</b> , 15, 18565-78	3.8	44
151	Nanoscale virus biosensors: state of the art. <b>2015</b> , 47		16
150	Single-Stranded DNA Aptamers against Pathogens and Toxins: Identification and Biosensing Applications. <b>2015</b> , 2015, 419318		55
149	Microbial Sensors Based on Nanostructures. <b>2015</b> , 5, 59-65		4
148	Ultra-high frequency piezoelectric aptasensor for the label-free detection of cocaine. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 383-92	11.8	57

147	Biosensors for waterborne viruses: Detection and removal. <b>2015</b> , 115, 144-54		43
146	Quartz-Crystal Microbalance (QCM) for Public Health: An Overview of Its Applications. <b>2015</b> , 101, 149-211		20
145	Determination of the <i>invA</i> gene of Salmonella using surface plasmon resonance along with streptavidin aptamer amplification. <b>2015</b> , 182, 289-296		26
144	Rational design and applications of conducting polymer hydrogels as electrochemical biosensors. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2920-2930	7.3	126
143	Hydrogel microparticles for biosensing. <b>2015</b> , 72, 386-412		125
142	Aptamers Selected by Cell-SELEX for Theranostics. <b>2015</b> ,		4
141	Aptamers in diagnostics and treatment of viral infections. <i>Viruses</i> , <b>2015</b> , 7, 751-80	6.2	89
140	Batch Quartz Crystal Microbalance Immunosensor using a Protein-Immobilized Hydrophilic Polymer. <b>2015</b> , 48, 1570-1577		2
139	Colorimetric detection of influenza A virus using antibody-functionalized gold nanoparticles. <i>Analyst, The</i> , <b>2015</b> , 140, 3989-95	5	94
138	Aptamer-Based Hydrogels and Their Applications. <b>2015</b> , 163-195		2
137	Aptasensors for viral diagnostics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2015</b> , 74, 58-67	14.6	38
136	Methods to detect avian influenza virus for food safety surveillance. <b>2015</b> , 14, 2296-2308		7
135	A gas-phase amplified quartz crystal microbalance immunosensor based on catalase modified immunoparticles. <i>Analyst, The</i> , <b>2015</b> , 140, 1174-81	5	5
134	Bio-nanogate controlled enzymatic reaction for virus sensing. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 400-7	11.8	30
133	Application of Nucleic Acid Aptamers to Viral Detection and Inhibition. <b>2016</b> ,		2
132	Biosensors for Rapid Detection of Avian Influenza. <b>2016</b> ,		3
131	Monitoring Intact Viruses Using Aptamers. <b>2016</b> , 6,		22
130	Use of Aptamers as Diagnostics Tools and Antiviral Agents for Human Viruses. <b>2016</b> , 9,		47

129	A Portable Impedance Biosensing System for Rapid Detection of Avian Influenza Virus. <b>2016</b> , 59, 421-428		7
128	Highly sensitive sandwich-type SPR based detection of whole H5Nx viruses using a pair of aptamers. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 293-300	11.8	79
127	A target-responsive and size-dependent hydrogel aptasensor embedded with QD fluorescent reporters for rapid detection of avian influenza virus H5N1. <b>2016</b> , 234, 98-108		51
126	A sensitivity metric and software to guide the analysis of soft films measured by a quartz crystal microbalance. <i>Analyst, The</i> , <b>2016</b> , 141, 2911-9	5	19
125	Upgrading biomaterials with synthetic biological modules for advanced medical applications. <b>2016</b> , 105, 77-95		19
124	Advances in aptasensors for the detection of food contaminants. <i>Analyst, The</i> , <b>2016</b> , 141, 3942-61	5	94
123	Aptamers as functional bionanomaterials for sensor applications. <b>2016</b> , 181-226		3
122	Bioresponsive DNA-co-polymer hydrogels for fabrication of sensors. <b>2016</b> , 26, 1-8		15
121	Rapid detection of avian influenza virus H5N1 in chicken tracheal samples using an impedance aptasensor with gold nanoparticles for signal amplification. <b>2016</b> , 236, 147-156		46
120	Application of aptamers in diagnostics, drug-delivery and imaging. <b>2016</b> , 41, 535-61		45
119	Recent trends on hydrogel based drug delivery systems for infectious diseases. <b>2016</b> , 4, 1535-1553		45
118	Biosensors for Early Disease Diagnosis. <b>2016</b> , 235-270		0
117	Interactions of rod-like particles on responsive elastic sheets. <b>2016</b> , 12, 7908-19		13
116	Prevalence and evaluation strategies for viral contamination in food products: Risk to human health-a review. <b>2018</b> , 58, 405-419		10
115	Controlled fabrication of fluorescent Au@PAA nanocomposites. <b>2016</b> , 494, 95-100		8
114	Aptamers in analytics. <i>Analyst, The</i> , <b>2016</b> , 141, 1551-68	5	145
113	Functional nucleic acid-based hydrogels for bioanalytical and biomedical applications. <b>2016</b> , 45, 1410-31		328
112	Utilizing a Key Aptamer Structure-Switching Mechanism for the Ultrahigh Frequency Detection of Cocaine. <b>2016</b> , 88, 3098-106		19

111	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 644-9	11.8	58
110	Silver nanocluster based sensitivity amplification of a quartz crystal microbalance gene sensor. <b>2016</b> , 183, 881-887		22
109	Detection of AU(III) ions using a poly(N,N-dimethylacrylamide)-coated QCM sensor. <i>Talanta</i> , <b>2016</b> , 146, 507-9	6.2	9
108	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 187-200	11.8	82
107	A novel method for detection of H9N2 influenza viruses by an aptamer-real time-PCR. <b>2017</b> , 243, 83-91		19
106	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors. <b>2017</b> , 175-208		
105	A portable visual detection method based on a target-responsive DNA hydrogel and color change of gold nanorods. <b>2017</b> , 53, 6375-6378		48
104	Detection of influenza A virus using carbon nanotubes field effect transistor based DNA sensor. <b>2017</b> , 93, 83-86		38
103	Specific Recognition of Human Influenza Virus with PEDOT Bearing Sialic Acid-Terminated Trisaccharides. <b>2017</b> , 9, 14162-14170		55
102	A fluorogenic 2D glycosheet for the simultaneous identification of human- and avian-receptor specificity in influenza viruses. <b>2017</b> , 4, 431-436		22
101	Aptasensors for Detection of Avian Influenza Virus H5N1. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1572, 379-402		8
100	Carbon-dot hydrogel for enzyme-mediated bacterial detection. <i>RSC Advances</i> , <b>2017</b> , 7, 588-594	3.7	34
99	Electrochemical Conversion of FeO Magnetic Nanoparticles to Electroactive Prussian Blue Analogues for Self-Sacrificial Label Biosensing of Avian Influenza Virus H5N1. <b>2017</b> , 89, 12145-12151		52
98	Biosensing methods for the detection of highly pathogenic avian influenza H5N1 and H7N9 viruses. <i>Analytical Methods</i> , <b>2017</b> , 9, 5238-5248	3.2	8
97	ESI MS for Microsized Bioparticles. <b>2017</b> , 89, 13195-13202		8
96	A promising magnetic SERS immunosensor for sensitive detection of avian influenza virus. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 906-912	11.8	72
95	QCM-based aptamer selection and detection of Salmonella typhimurium. <i>Food Chemistry</i> , <b>2017</b> , 221, 776-782	8.5	77
94	A nanowell-based QCM aptasensor for rapid and sensitive detection of avian influenza virus. <b>2017</b> , 240, 934-940		51

93	Smart Nanomaterials. <b>2017</b> , 219-276		1
92	Hydrogel Based Sensors for Biomedical Applications: An Updated Review. <b>2017</b> , 9,		200
91	Gravimetric Viral Diagnostics: QCM Based Biosensors for Early Detection of Viruses. <b>2017</b> , 5, 7		63
90	How to Construct DNA Hydrogels for Environmental Applications: Advanced Water Treatment and Environmental Analysis. <i>Small</i> , <b>2018</b> , 14, e1703305	11	37
89	Electrochemical detection of influenza virus H9N2 based on both immunomagnetic extraction and gold catalysis using an immobilization-free screen printed carbon microelectrode. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 107, 170-177	11.8	50
88	Human influenza virus detection using sialyllactose-functionalized organic electrochemical transistors. <b>2018</b> , 260, 635-641		49
87	Whole-bacterium SELEX of DNA aptamers for rapid detection of E.coli O157:H7 using a QCM sensor. <b>2018</b> , 266, 39-49		81
86	. <b>2018</b> ,		4
85	Virus-Host Interactions: New Insights and Advances in Drug Development Against Viral Pathogens. <b>2017</b> , 18, 942-970		4
84	Size- and deformability-based isolation of circulating tumor cells with microfluidic chips and their applications in clinical studies. <b>2018</b> , 8, 120701		9
83	State of the Art and Emerging Applications. <b>2018</b> , 365-396		
82	Biosensor for Rapid and Sensitive Detection of Influenza Virus. <i>Biotechnology and Bioprocess Engineering</i> , <b>2018</b> , 23, 371-382	3.1	24
81	Acoustic WaveBased Immunoassays. <b>2018</b> , 203-239		1
80	Quartz Crystal Resonator for Real-Time Characterization of Nanoscale Phenomena Relevant for Biomedical Applications. <b>2018</b> , 289-350		
79	Oligonucleotide aptamers: promising and powerful diagnostic and therapeutic tools for infectious diseases. <i>Journal of Infection</i> , <b>2018</b> , 77, 83-98	18.9	30
78	A sensitive electrochemical aptasensor for detection of Aflatoxin B2 based on a polyacrylamide/phytic acid/polydopamine hydrogel modified screen printed carbon electrode. <i>Analytical Methods</i> , <b>2018</b> , 10, 4689-4694	3.2	7
77	A quadrupole ion trap mass spectrometer for dry microparticle analysis. <i>Analyst, The</i> , <b>2019</b> , 144, 5608-5616		3
76	Removal of Cu <sup>2+</sup> ions by cellulose nanofibers-assisted starch-g-poly(acrylic acid) superadsorbent hydrogels. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107084	10	22

75	An Overview of High Frequency Acoustic Sensors-QCMs, SAWs and FBARs-Chemical and Biochemical Applications. <i>Sensors</i> , <b>2019</b> , 19,	3.8	38
74	Biosensors and Their Application for the Detection of Avian Influenza Virus. <b>2019</b> , 1-16		3
73	Label-free sensitive detection of influenza virus using PZT discs with a synthetic sialylglycopolymer receptor layer. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 190255	3.3	15
72	Application of Aptamers in Virus Detection and Antiviral Therapy. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1462	5.7	98
71	An overview of DNA/RNA-based monitoring tools and biosensors: Benefits and applications in the environmental toxicology. <b>2019</b> , 97-124		1
70	Highly sensitive detection of influenza virus with SERS aptasensor. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216247	3.7	66
69	Advancements in Nucleic Acid Based Therapeutics against Respiratory Viral Infections. <i>Journal of Clinical Medicine</i> , <b>2018</b> , 8,	5.1	24
68	Synthesis and characterization of biopolymer based hybrid hydrogel nanocomposite and study of their electrochemical efficacy. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 123, 228-238	7.9	8
67	Aptamer-Based Detection Methodology Studies in Food Safety. <i>Food Analytical Methods</i> , <b>2019</b> , 12, 966-990	3.4	25
66	Functional Sensing Interfaces of PEDOT:PSS Organic Electrochemical Transistors for Chemical and Biological Sensors: A Mini Review. <i>Sensors</i> , <b>2019</b> , 19,	3.8	32
65	Quartz crystal microbalance-based biosensors as rapid diagnostic devices for infectious diseases. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 168, 112513	11.8	46
64	Facile biosensors for rapid detection of COVID-19. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 170, 112673	11.8	56
63	Nanobiosensors for the Detection of Novel Coronavirus 2019-nCoV and Other Pandemic/Epidemic Respiratory Viruses: A Review. <i>Sensors</i> , <b>2020</b> , 20,	3.8	21
62	The Latest Achievements in the Construction of Influenza Virus Detection Aptasensors. <i>Viruses</i> , <b>2020</b> , 12,	6.2	3
61	Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127575	14.7	38
60	Potential Diagnostic Systems for Coronavirus Detection: a Critical Review. <i>Biological Procedures Online</i> , <b>2020</b> , 22, 21	8.3	9
59	Graphene functionalized field-effect transistors for ultrasensitive detection of Japanese encephalitis and Avian influenza virus. <i>Scientific Reports</i> , <b>2020</b> , 10, 14546	4.9	26
58	Epitope-Imprinted Magnetic Nanoparticles as a General Platform for Efficient Evolution of Protein-Binding Aptamers. <i>ACS Sensors</i> , <b>2020</b> , 5, 2537-2544	9.2	7

57	From design to applications of stimuli-responsive hydrogel strain sensors. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3171-3191	7.3	72
56	A review: Recent advances in ultrasensitive and highly specific recognition aptasensors with various detection strategies. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 155, 184-207	7.9	48
55	Recent advances in biosensors for detecting viruses in water and wastewater. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 410, 124656	12.8	13
54	PEI-assisted boronate affinity magnetic nanoparticle-based SELEX for efficient evolution of saponin-binding aptamers.. <i>RSC Advances</i> , <b>2021</b> , 11, 8775-8781	3.7	1
53	Aptamer-Modified Hydrogels. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2021</b> , 178, 147-168	1.7	
52	Smart materials-integrated sensor technologies for COVID-19 diagnosis. <i>Emergent Materials</i> , <b>2021</b> , 4, 1-17	3.5	17
51	Biosensors: Aptamer Sensors. <b>2021</b> ,		
50	Finite element analysis on the quartz plate due to the placement of quartz crystal microbalance on printed circuit board. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1825, 012026	0.3	
49	An apta-aggregation based machine learning assay for rapid quantification of lysozyme through texture parameters. <i>PLoS ONE</i> , <b>2021</b> , 16, e0248159	3.7	
48	Study on micropillar arrangement optimization of wireless-electrodeless quartz crystal microbalance sensor and application to a gas sensor. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, SDDC01	1.4	3
47	Aptamers for Anti-Viral Therapeutics and Diagnostics. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
46	A study of mesh variations effect on the quartz crystal microbalance finite element simulation. <b>2021</b> ,		
45	Naked-eye counting of pathogenic viruses by phage-gold nanobiomaterials as probes. <i>Materials Today Advances</i> , <b>2021</b> , 10, 100122	7.4	1
44	ReviewBio-Nanosensors: Fundamentals and Recent Applications. <i>Journal of the Electrochemical Society</i> ,	3.9	2
43	Sulphur-doped graphene quantum dot based fluorescent turn-on aptasensor for selective and ultrasensitive detection of omethoate. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1181, 338893	6.6	6
42	Acoustic Biosensors for Cell Research. <b>2022</b> , 537-568		
41	Aptamers against viruses: Selection strategies and bioanalytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 143, 116349	14.6	7
40	Effective utilization of quartz crystal microbalance as a tool for biosensing applications. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 331, 113020	3.9	4

39	Aptamer functionalized DNA hydrogels: Design, applications and kinetics. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 194, 113597	11.8	2
38	Clinical application of serological Alzheimer's disease diagnosis using a highly sensitive biosensor with hydrogel-enhanced dielectrophoretic force. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 195, 113668	11.8	3
37	Molecular imprinted polymer combined with aptamer (MIP-aptamer) as a hybrid dual recognition element for bio(chemical) sensing applications. Review. <i>Talanta</i> , <b>2022</b> , 236, 122878	6.2	7
36	Enzymes, Aptamers, and Their Use in Sensors. <b>2021</b> ,		1
35	Oligonucleotide aptamers for pathogen detection and infectious disease control. <i>Theranostics</i> , <b>2021</b> , 11, 9133-9161	12.1	9
34	Nucleic-acid testing, new platforms and nanotechnology for point-of-decision diagnosis of animal pathogens. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1247, 253-83	1.4	8
33	Molecularly Imprinted Nanosensors for Microbial Contaminants. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 353-388	1.1	2
32	Aptamers in Virology-A Consolidated Review of the Most Recent Advancements in Diagnosis and Therapy. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
31	Piezoelectric Sensors. <i>Series in Sensors</i> , <b>2013</b> , 71-96		
30	DNA as Nanostructuring Element for Design of Functional Devices. <i>Advances in Atom and Single Molecule Machines</i> , <b>2014</b> , 85-121	0	
29	Macromolecular Imprinting for Improved Health Security. <i>Advanced Sciences and Technologies for Security Applications</i> , <b>2016</b> , 141-160	0.6	
28	Recent Advancement in Biosensors Technology for Animal and Livestock Health Management.		
27	Advances and Future Perspective on Detection Technology of Human Norovirus. <i>Pathogens</i> , <b>2021</b> , 10,	4.5	2
26	Acoustic Biosensors for Cell Research. <b>2020</b> , 1-32		2
25	Synthetic Biology-Empowered Hydrogels for Medical Diagnostics. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2021</b> , 178, 197-226	1.7	0
24	Plant health monitoring using nanosensor system. <b>2022</b> , 479-492		0
23	Aptamers for Viral Detection and Inhibition.. <i>ACS Infectious Diseases</i> , <b>2022</b> ,	5.5	2
22	Biosensors for the detection of disease outbreaks through Wastewater-based Epidemiology.. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 116585	14.6	2

21	Funktionsprinzip und Anwendung der Kraftkompensationsmessmethode für miniaturisierte hydrogelbasierte Sensoren. <i>TM Technisches Messen</i> , <b>2022</b> ,	0.7	
20	Potential application of hydrogel to the diagnosis and treatment of multiple sclerosis.. <i>Journal of Biological Engineering</i> , <b>2022</b> , 16, 10	6.3	
19	Acoustic Biosensors and Microfluidic Devices in the Decennium: Principles and Applications.. <i>Micromachines</i> , <b>2021</b> , 13,	3.3	4
18	Aptamer empowered hydrogels: Fabrication and bio-sensing applications. <i>Journal of Applied Polymer Science</i> ,	2.9	1
17	Aptamers as Diagnostic Markers for Viral Infections of Veterinary Importance. <i>Springer Protocols</i> , <b>2022</b> , 159-169	0.3	
16	A label-free visual aptasensor for zearalenone detection based on target-responsive aptamer-cross-linked hydrogel and color change of gold nanoparticles.. <i>Food Chemistry</i> , <b>2022</b> , 389, 133078	8.5	0
15	Hydrogel Nanoarchitectonics: An Evolving Paradigm for Ultrasensitive Biosensing. <i>Small</i> , 2107571	11	2
14	Nanotechnology for Therapy of Zoonotic Diseases: A Comprehensive Overview. <i>ChemistrySelect</i> , <b>2022</b> , 7,	1.8	0
13	Dual Detection of Hemagglutinin Proteins of H5N1 and H1N1 Influenza Viruses Based on FRET Combined With DNase I. <i>Frontiers in Microbiology</i> , 13,	5.7	0
12	Aptamer-based biosensors for virus protein detection. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 1167384.6	4.6	2
11	Aptamer Based Nanoprobes for Detection of Foodborne Virus in Food and Environment Samples: Recent Progress and Challenges. 1-13		0
10	An overview of advancement in aptasensors for influenza detection. 1-20		
9	Quartz Crystal Microbalance-Based Aptasensors for Medical Diagnosis. <b>2022</b> , 13, 1441		0
8	Research on Dual-Technology Fusion Biosensor Chip Based on RNA Virus Medical Detection. <b>2022</b> , 13, 1523		0
7	Aptamers: A prospective tool for infectious diseases diagnosis.		0
6	Advances in Aptamer-Based Biosensors and Cell-Internalizing SELEX Technology for Diagnostic and Therapeutic Application. <b>2022</b> , 12, 922		1
5	Aptasensors for the detection of infectious pathogens: design strategies and point-of-care testing. <b>2022</b> , 189,		2
4	Hydrogel-Based Biosensors. <b>2022</b> , 8, 768		1

- 3 Aptamer-based rapid diagnosis for point-of-care application. **2023**, 27, ○
- 2 Stimulus-Responsive DNA Hydrogel Biosensors for Food Safety Detection. **2023**, 13, 320 ○
- 1 Real-Time Biosensing Bacteria and Virus with Quartz Crystal Microbalance: Recent Advances, Opportunities, and Challenges. 1-12 ○