CITATION REPORT List of articles citing

Rapid methods for the detection of foodborne bacterial pathogens: principles, applications, advantages and limitatio

DOI: 10.3389/fmicb.2014.00770 Frontiers in Microbiology, 2014, 5, 770.

Source: https://exaly.com/paper-pdf/62021506/citation-report.pdf

Version: 2024-04-24

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
676	Scientific Symposium B mall Solution for Big Water-Related Problems: Innovative Microarrays and Small Sensors to Cope with Water Quality and Food Security[] 2015 , 12, 15400-15408		1
675	The Novel Multiple Inner Primers-Loop-Mediated Isothermal Amplification (MIP-LAMP) for Rapid Detection and Differentiation of Listeria monocytogenes. 2015 , 20, 21515-31		19
674	Waterborne pathogens: detection methods and challenges. 2015 , 4, 307-34		226
673	Fluorescence-based bioassays for the detection and evaluation of food materials. 2015 , 15, 25831-67		59
672	Portable Nanoparticle-Based Sensors for Food Safety Assessment. 2015 , 15, 30736-58		106
671	An insight of traditional plasmid curing in Vibrio species. Frontiers in Microbiology, 2015, 6, 735	5.7	36
670	An insight into the isolation, enumeration, and molecular detection of Listeria monocytogenes in food. <i>Frontiers in Microbiology</i> , 2015 , 6, 1227	5.7	50
669	Rapid and Sensitive Detection of Shigella spp. and Salmonella spp. by Multiple Endonuclease Restriction Real-Time Loop-Mediated Isothermal Amplification Technique. <i>Frontiers in Microbiology</i> , 2015 , 6, 1400	5.7	25
668	Occurrence and Antibiotic Resistance of Vibrio parahaemolyticus from Shellfish in Selangor, Malaysia. <i>Frontiers in Microbiology</i> , 2015 , 6, 1417	5.7	7 ²
667	The Prevalence and Control of Bacillus and Related Spore-Forming Bacteria in the Dairy Industry. <i>Frontiers in Microbiology</i> , 2015 , 6, 1418	5.7	134
666	Ultrasensitive detection and rapid identification of multiple foodborne pathogens with the naked eyes. 2015 , 71, 186-193		18
665	RNA-Based Detection Does not Accurately Enumerate Living Escherichia coli O157:H7 Cells on Plants. <i>Frontiers in Microbiology</i> , 2016 , 7, 223	5.7	20
664	Multiplex, Rapid, and Sensitive Isothermal Detection of Nucleic-Acid Sequence by Endonuclease Restriction-Mediated Real-Time Multiple Cross Displacement Amplification. <i>Frontiers in Microbiology</i> , 2016 , 7, 753	5.7	25
663	Endonuclease Restriction-Mediated Real-Time Polymerase Chain Reaction: A Novel Technique for Rapid, Sensitive and Quantitative Detection of Nucleic-Acid Sequence. <i>Frontiers in Microbiology</i> , 2016 , 7, 1104	5.7	7
662	Insights into Bacteriophage Application in Controlling Vibrio Species. <i>Frontiers in Microbiology</i> , 2016 , 7, 1114	5.7	73
661	An Improved Culture Method for Selective Isolation of Campylobacter jejuni from Wastewater. <i>Frontiers in Microbiology</i> , 2016 , 7, 1345	5.7	11
660	Genome Sequence of Vibrio parahaemolyticus VP152 Strain Isolated from Penaeus indicus in Malaysia. <i>Frontiers in Microbiology</i> , 2016 , 7, 1410	5.7	4

659	Aptamer-Based Technologies in Foodborne Pathogen Detection. <i>Frontiers in Microbiology</i> , 2016 , 7, 1426 _{5.7}	46
658	Development of a Droplet Digital Polymerase Chain Reaction for Rapid and Simultaneous Identification of Common Foodborne Pathogens in Soft Cheese. <i>Frontiers in Microbiology</i> , 2016 , 7, 1725 5.7	31
657	Advances and Challenges in Viability Detection of Foodborne Pathogens. <i>Frontiers in Microbiology</i> , 2016 , 7, 1833	58
656	Multiple Cross Displacement Amplification Combined with Gold Nanoparticle-Based Lateral Flow Biosensor for Detection of. <i>Frontiers in Microbiology</i> , 2016 , 7, 2047	23
655	Sensitive detection of multiple pathogens using a single DNA probe. 2016 , 86, 398-405	22
654	Optimization of growth medium position for improved operation of Quartz Tuning Fork biosensor. 2016 ,	
653	Multiplex real-time PCRs for detection of Salmonella, Listeria monocytogenes, and verotoxigenic Escherichia coli in carcasses of slaughtered animals. 2016 , 60, 287-292	7
652	Infection control in healthcare settings: perspectives for mfDNA analysis in monitoring sanitation procedures. 2016 , 16, 394	7
651	Application of a Halbach magnetic array for long-range cell and particle separations in biological samples. 2016 , 108, 213702	11
650	Improved Multiplex Polymerase Chain Reaction for Rapid Staphylococcus Aureus Detection in Meat and Milk Matrices. 2016 , 15, 65-76	
649	Prospects for improved control of dairy-relevant sporeformers using -omics technologies. 2016 , 10, 38-44	5
648	Multiparametric Magneto-fluorescent Nanosensors for the Ultrasensitive Detection of Escherichia coli O157:H7. 2016 , 2, 667-673	46
647	Paper-Based Bipolar Electrode Electrochemiluminescence Switch for Label-Free and Sensitive Genetic Detection of Pathogenic Bacteria. 2016 , 88, 10191-10197	71
646	Recent developments in detection and enumeration of waterborne bacteria: a retrospective minireview. 2016 , 5, 901-922	71
645	MALDI-TOF MS identification and tracking of food spoilers and food-borne pathogens. 2016 , 10, 76-84	8
644	Rapid multiplex detection of 10 foodborne pathogens with an up-converting phosphor technology-based 10-channel lateral flow assay. 2016 , 6, 21342	120
643	Rapid Salmonella detection using an acoustic wave device combined with the RCA isothermal DNA amplification method. 2016 , 11, 121-127	20
642	Detection of Salmonella spp., Yersinia enterocolitica, Listeria monocytogenes and Campylobacter spp. by real-time multiplex PCR using amplicon DNA melting analysis and probe-based assay. 2016 , 51, 519-529	7

641	Molecular characterization and phylogeny of Shiga toxin-producing E. coli (STEC) from imported beef meat in Malaysia. 2016 , 23, 17553-62	1
640	Rapid and visual detection of Listeria monocytogenes based on nanoparticle cluster catalyzed signal amplification. 2016 , 86, 1-7	76
639	Recent Advancements in Nanobioassays and Nanobiosensors for Foodborne Pathogenic Bacteria Detection. 2016 , 79, 1055-69	26
638	A multipurpose biochip for food pathogen detection. 2016 , 8, 3055-3060	26
637	Simultaneous Rapid Detection and Serotyping of Cronobacter sakazakii Serotypes O1, O2, and O3 by Using Specific Monoclonal Antibodies. 2016 , 82, 2300-2311	10
636	On-Chip Isothermal Nucleic Acid Amplification on Flow-Based Chemiluminescence Microarray Analysis Platform for the Detection of Viruses and Bacteria. 2016 , 88, 898-905	63
635	Sanitary impact evaluation of drinking water in storage reservoirs in Moroccan rural area. 2017 , 24, 767-777	8
634	Electrochemical Detection of Escherichia coli from Aqueous Samples Using Engineered Phages. 2017 , 89, 1650-1657	57
633	How can nanosensors detect bacterial contamination before it ever reaches the dinner table?. 2017 , 12, 97-100	7
632	Gold nanoparticle-based paper sensor for multiple detection of 12 Listeria spp. by P60-mediated monoclonal antibody. 2017 , 28, 274-287	31
631	Insights into Detection and Identification of Foodborne Pathogens. 2017, 153-201	2
630	Enzyme-linked lectinosorbent assay of Escherichia coli and Staphylococcus aureus. 2017 , 53, 107-113	2
629	Modern Methods of Diagnosis. 2017 , 109-145	2
628	Next generation sequencing-based multigene panel for high throughput detection of food-borne pathogens. 2017 , 256, 20-29	16
627	Ensuring food safety: Quality monitoring using microfluidics. 2017 , 65, 10-22	91
626	Thiolated AuNP probes and multiplex PCR for molecular detection of Staphylococcus epidermidis. 2017 , 34, 30-36	6
625	Alterations in virulence and antibiotic resistant genes of multidrug-resistant Salmonella serovars isolated from poultry: The bactericidal efficacy of Allium sativum. 2017 , 108, 91-100	12
624	Targeted next-generation sequencing of the 16S-23S rRNA region for culture-independent bacterial identification - increased discrimination of closely related species. 2017 , 7, 3434	66

(2017-2017)

623	Discrimination of foodborne pathogenic bacteria using synchrotron FTIR microspectroscopy. 2017 , 28, 1	9
622	Effect of yeast mannan-rich fractions on reducing Campylobacter colonization in broiler chickens. 2017 , 26, 350-357	9
621	Food-borne Pathogenic Bacteria. 2017 , 65-82	1
620	Quality Control and Assurance. 2017 , 321-364	
619	Sensitive immunoassay-based detection of Vibrio parahaemolyticus using capture and labeling particles in a stationary liquid phase lab-on-a-chip. 2017 , 90, 269-275	23
618	Development of a lateral flow immunoassay for rapid diagnosis of potato blackleg caused by Dickeya species. 2017 , 409, 1915-1927	12
617	Better together: Strategies based on magnetic particles and quantum dots for improved biosensing. 2017 , 35, 51-63	31
616	A novel CMOS image sensor system for quantitative loop-mediated isothermal amplification assays to detect food-borne pathogens. 2017 , 133, 1-7	19
615	Foodborne Pathogen Screening Using Magneto-fluorescent Nanosensor: Rapid Detection of E. Coli O157:H7. 2017 ,	6
614	Graphene-based label-free electrochemical aptasensor for rapid and sensitive detection of foodborne pathogen. 2017 , 409, 6893-6905	49
613	Emerging Biorecognition and Transduction Schemes for Rapid Detection of Pathogenic Bacteria in Food. 2017 , 16, 1188-1205	40
612	Field-Effect Biosensors for On-Site Detection: Recent Advances and Promising Targets. 2017 , 6, 1700796	32
611	Isothermal Nucleic Acid Amplification for Food Toxicity Analyses. 2017, 103-136	1
610	Rapid Screening and Identification of Living Pathogenic Organisms via Optimized Bioorthogonal Non-canonical Amino Acid Tagging. 2017 , 24, 1048-1055.e3	8
609	Innovative sandwich assay with dual optical and SERS sensing mechanisms for bacterial detection. 2017 , 9, 4732-4739	27
608	Development of Rapid Immuno-based Nanosensors for the Detection of Pathogenic Bacteria in Poultry Processing Plants. 2017 , 27, 23-26	6
607	Proteomics and Peptidomics as Tools for Detection of Food Contamination by Bacteria. 2017 , 97-137	О
606	Short communication: Detection of stx2 and elt genes in bovine milk by using a multiplex PCR system. 2017 , 100, 7897-7900	1

605	Graphene Field-Effect Transistors for the Sensitive and Selective Detection of Escherichia coli Using Pyrene-Tagged DNA Aptamer. 2017 , 6, 1700736	51
604	Electrical response of culture media during bacterial growth on a paper-based device. 2017 , 56, 05EC04	2
603	Rapid and Quantitative Detection of Vibrio parahemolyticus by the Mixed-Dye-Based Loop-Mediated Isothermal Amplification Assay on a Self-Priming Compartmentalization Microfluidic Chip. 2017 , 65, 11312-11319	29
602	Alternative In Vitro Methods for the Determination of Viral Capsid Structural Integrity. 2017,	4
601	Development of an aptasensor using reduced graphene oxide chitosan complex to detect Salmonella. 2017 , 806, 88-96	46
600	Recombinase polymerase amplification: a promising point-of-care detection method for enteric viruses. 2017 , 12, 421-429	10
599	Detection of DNA Amplicons of Polymerase Chain Reaction Using Litmus Test. 2017 , 7, 3110	8
598	Simultaneous Detection and Serotyping of Salmonellae by Immunomagnetic Separation and Label-Free Surface-Enhanced Raman Spectroscopy. 2017 , 10, 3181-3193	8
597	Electrochemical biosensors for rapid detection of Escherichia coli O157:H7. 2017 , 162, 511-522	94
596	Endonuclease controlled aggregation of gold nanoparticles for the ultrasensitive detection of pathogenic bacterial DNA. 2017 , 92, 502-508	24
595	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. 2017 , 238, 1060-1069	71
594	Sensitive detection of Listeria monocytogenes based on highly efficient enrichment with vancomycin-conjugated brush-like magnetic nano-platforms. 2017 , 91, 238-245	53
593	Efficient separation and quantitative detection of Listeria monocytogenes based on screen-printed interdigitated electrode, urease and magnetic nanoparticles. 2017 , 73, 555-561	58
592	Random forest tree for predicting fecal indicator organisms in drinking water supply. 2017,	3
591	Increased Incidence of Enterococcal Infection in Nonviable Broiler Chicken Embryos in Western Canadian Hatcheries as Detected by Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight Mass Spectrometry. 2017 , 61, 472-480	13
590	Foodomics and Food Safety: Where We Are. 2017 , 55, 290-307	36
589	Micro- and nanotechnology-based approaches to detect pathogenic agents in food. 2017 , 475-510	3
588	Bioconjugated nanomaterials for monitoring food contamination. 2017 , 93-127	5

587	Detection of Microbial Toxins by -Omics Methods. 2017 , 485-506		2
586	Design and Elementary Evaluation of a Highly-Automated Fluorescence-Based Instrument System for On-Site Detection of Food-Borne Pathogens. 2017 , 17,		2
585	New trends in the food industry: application of nanosensors in food packaging. 2017 , 773-804		14
584	Current Technical Approaches for the Early Detection of Foodborne Pathogens: Challenges and Opportunities. 2017 , 18,		38
583	Development of An Impedimetric Aptasensor for the Detection of Staphylococcus aureus. 2017, 18,		38
582	Sensitive Genotyping of Foodborne-Associated Human Noroviruses and Hepatitis A Virus Using an Array-Based Platform. 2017 , 17,		9
581	Loop-Mediated Isothermal Amplification Label-Based Gold Nanoparticles Lateral Flow Biosensor for Detection of and. <i>Frontiers in Microbiology</i> , 2017 , 8, 192	5.7	34
580	Metagenomics: The Next Culture-Independent Game Changer. <i>Frontiers in Microbiology</i> , 2017 , 8, 1069 5	5.7	146
579	Comparison among the Quantification of Bacterial Pathogens by qPCR, dPCR, and Cultural Methods. <i>Frontiers in Microbiology</i> , 2017 , 8, 1174	5.7	36
578	Multiplexed Lateral Flow Test for Detection and Differentiation of Serotypes O1 and O2. <i>Frontiers in Microbiology</i> , 2017 , 8, 1826	5.7	12
577	Biosensors for detection mycotoxins and pathogenic bacteria in food. 2017 , 35-92		5
576	Development of a graphene oxide-based assay for the sequence-specific detection of double-stranded DNA molecules. 2017 , 12, e0183952		14
575	Forensic genetics and genomics: Much more than just a human affair. 2017 , 13, e1006960		39
574	Rapid Microbiological Methods in Food Diagnostics. 2017 , 153-185		О
573	Prevalence of , and enterica Typhimurium in meat and meat products using multiplex polymerase chain reaction. 2017 , 10, 927-931		13
572	Molecular Tools To Study Preharvest Food Safety Challenges. 2018 , 6,		4
571	Comparative predictive modelling of the occurrence of faecal indicator bacteria in a drinking water source in Norway. 2018 , 628-629, 1178-1190		19
57°	Seafood spoilage microbiota and associated volatile organic compounds at different storage temperatures and packaging conditions. 2018 , 280, 87-99		59

569	Surface-Enhanced Raman Scattering for Rapid Detection and Characterization of Antibiotic-Resistant Bacteria. 2018 , 7, e1701335	52
568	Culture-free, highly sensitive, quantitative detection of bacteria from minimally processed samples using fluorescence imaging by smartphone. 2018 , 109, 90-97	62
567	Foodborne Illness: Threats and Control. 2018 , 501-523	3
566	Impact of Listeria Inoculation and Aerated Steam Sanitization on Volatile Emissions of Whole Fresh Cantaloupes. 2018 , 83, 1017-1024	2
565	A highly selective enrichment broth combined with real-time PCR for detection of Staphylococcus aureus in food samples. 2018 , 94, 103-110	15
564	Predictive Modeling for the Growth of Salmonella Enteritidis in Chicken Juice by Real-Time Polymerase Chain Reaction. 2018 , 15, 406-412	9
563	Immunochromatographic thread-based test platform for diagnosis of infectious diseases. 2018 , 22, 1	8
562	Sources and contamination routes of microbial pathogens to fresh produce during field cultivation: A review. 2018 , 73, 177-208	182
561	Tilapia fish microbial spoilage monitored by a single optical gas sensor. 2018 , 89, 72-76	39
560	Serogroup-level resolution of the "Super-7" Shiga toxin-producing Escherichia coli using nanopore single-molecule DNA sequencing. 2018 , 410, 5439-5444	4
559	Selective Discrimination of Key Enzymes of Pathogenic and Nonpathogenic Bacteria on Autonomously Reporting Shape-Encoded Hydrogel Patterns. 2018 , 10, 5175-5184	13
558	Application of molecular tools to elucidate the microbiota of seafood. 2018 , 124, 1347-1365	6
557	Optimization of a Viability PCR Method for the Detection of Listeria monocytogenes in Food Samples. 2018 , 75, 779-785	4
556	A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads. 2018 , 185, 164	23
555	Development of a Multiplexed Microsphere PCR for Culture-Free Detection and Gram-Typing of Bacteria in Human Blood Samples. 2018 , 4, 837-844	4
554	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. 2018 , 6, 1149-1178	57
553	Multiplex PCR assay and lyophilization for detection of spp., and in pork products. 2018, 27, 867-875	17
552	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. 2017 , 185, 61	43

551	Rapid and sensitive detection of Salmonella based on microfluidic enrichment with a label-free nanobiosensing platform. 2018 , 262, 588-594	22
550	Carboxyl-rich plasma polymer surfaces in surface plasmon resonance immunosensing. 2018 , 57, 01AG06	5
549	Fluorescent Immunoassay for the Detection of Pathogenic Bacteria at the Single-Cell Level Using Carbon Dots-Encapsulated Breakable Organosilica Nanocapsule as Labels. 2018 , 10, 3441-3448	69
548	Impact of Culture-Independent Diagnostic Testing on Recovery of Enteric Bacterial Infections. 2018 , 66, 1892-1898	15
547	Alkaline phosphatase labeled SERS active sandwich immunoassay for detection of Escherichia coli. 2018 , 194, 8-13	21
546	Preparation and Characterization of Aminosilane-Functionalized Magnetic Antibody Conjugates for Bacterial Recognition and Capture. 2018 , 54, 1-4	1
545	Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria. 2018 , 185, 275-280	40
544	Antimicrobial, antioxidant, and waterproof RTV silicone-ethyl cellulose composites containing clove essential oil. 2018 , 192, 150-158	36
543	Identification and biotechnological characterization of lactic acid bacteria isolated from chickpea sourdough in northwestern Argentina. 2018 , 93, 249-256	22
542	Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. 2018 , 36, 1003-102	2495
541	The importance of lactic acid bacteria for the prevention of bacterial growth and their biogenic amines formation: A review. 2018 , 58, 1660-1670	84
540	Irrigation water quality and microbial safety of leafy greens in different vegetable production systems: A review. 2018 , 34, 308-328	29
539	Approaches to empower the implementation of new tools to detect and prevent foodborne pathogens in food processing. 2018 , 75, 126-132	13
538	Recent developments in nanotechnology transforming the agricultural sector: a transition replete with opportunities. 2018 , 98, 849-864	99
537	Differentiation of live and heat-killed E. coli by microwave impedance spectroscopy. 2018 , 255, 1614-1622	29
536	In-house validation of real-time PCR methods for detecting the INV A and TTR genes of Salmonella spp. in food. 2018 , 42, e13455	5
535	Recent trends in the development of complementary metal oxide semiconductor image sensors to detect foodborne bacterial pathogens. 2018 , 98, 47-57	13
534	Prevalence, molecular identification and characterization of Bacillus cereus isolated from beef burgers. 2018 , 38, e12414	1

533	Developments in Micro- and Nanotechnology for Foodborne Pathogen Detection. 2018 , 15, 16-25		13
532	A Minireview of the Methods for Listeria monocytogenes Detection. 2018 , 11, 215-223		17
531	Electrochemical biosensors for Salmonella: State of the art and challenges in food safety assessment. 2018 , 99, 667-682		89
530	Rapid and Sensitive Detection of Campylobacter jejuni in Poultry Products Using a Nanoparticle-Based Piezoelectric Immunosensor Integrated with Magnetic Immunoseparation. 2018 , 81, 1321-1330		22
529	Development of a portable electrochemical loop mediated isothermal amplification (LAMP) device for detection of hepatitis B virus 2018 , 8, 34954-34959		18
528	Pathogenic Bacteria Genus Classification using Support Vector Machine. 2018,		6
527	Modern Immunochemical Approaches in Microbiology. 2018 , 303-333		
526	An Investigation of an Acute Gastroenteritis Outbreak: , a Potential Cause of Food-Borne Illness. <i>Frontiers in Microbiology</i> , 2018 , 9, 2549	5.7	24
525	Proposal of a chip capable of simultaneous excitation of waveguide-mode resonance and surface plasmon resonance for an electro-assisted near-field fluorescence sensor. 2018 , 57, 122002		
524	Development of Molecular Diagnosis Using Multiplex Real-Time PCR and T4 Phage Internal Control to Simultaneously Detect Cryptosporidium parvum, Giardia lamblia, and Cyclospora cayetanensis from Human Stool Samples. 2018 , 56, 419-427		13
523	Introductory Chapter: Why Do We Need Rapid Detection of Pathogens?. 2018,		
522	Discovery on Antibiotic Resistance Patterns of in Selangor Reveals Carbapenemase Producing in Marine and Freshwater Fish. <i>Frontiers in Microbiology</i> , 2018 , 9, 2513	5.7	45
521	Detection and Characterization of Antibiotic-Resistant Bacteria Using Surface-Enhanced Raman Spectroscopy. 2018 , 8,		37
520	Hazards of a Bealthyltrend? An appraisal of the risks of raw milk consumption and the potential of novel treatment technologies to serve as alternatives to pasteurization. 2018 , 82, 148-166		31
519	Plasmonic bacteria on a nanoporous mirror via hydrodynamic trapping for rapid identification of waterborne pathogens. 2018 , 7, 68		20
518	Bacteriophages and Rapid Detection of Bacterial Pathogens: A Novel Approach. 2018,		2
517	Concentration of Listeria monocytogenes in skim milk and soft cheese through microplate immunocapture. 2018 , 153, 54-59		3
516	Dielectrophoresis-Assisted Pathogen Detection on Vertically Aligned Carbon Nanofibers Arrays in a Microfluidic Device. 2018 ,		

515	Antimicrobial activities of leptospermone isolated from seeds and structure-activity relationships of its derivatives against foodborne bacteria. 2018 , 27, 1541-1547		10
514	Microdevice-based solid-phase polymerase chain reaction for rapid detection of pathogenic microorganisms. 2018 , 115, 2194-2204		6
513	Peptide-Based Biosensor Utilizing Fluorescent Gold Nanoclusters for Detection of Listeria monocytogenes. 2018 , 1, 3389-3397		29
512	Carbon nanotube-based aptasensor for sensitive electrochemical detection of whole-cell Salmonella. 2018 , 554, 34-43		53
511	Electrochemical Methodologies for the Detection of Pathogens. 2018 , 3, 1069-1086		108
510	One-step DNA purification and amplification on an integrated plastic microdevice for on-site identification of foodborne pathogens. 2018 , 1040, 63-73		10
509	Teicoplanin-functionalized magnetic beads for detection of Staphylococcus aureus via inhibition of the luminol chemiluminescence by intracellular catalase. 2018 , 185, 391		12
508	Magnetic Nanoparticle Encapsulation for the Manipulation of Bacterial Movement and Spontaneous Detection by Reduced Graphene Oxide. 2018 , 2, 1800095		O
507	Adenosine Triphosphate Bioluminescence-Based Bacteria Detection Using Targeted Photothermal Lysis by Gold Nanorods. 2018 , 90, 10171-10178		24
506	Evaluation of Different Genetic Targets for Salmonella enterica Serovar Enteriditis and Typhimurium, Using Loop-Mediated Isothermal AMPlification for Detection in Food Samples. 2018 , 2,		8
505	Screening of microbial communities associated with endive lettuce during postharvest processing on industrial scale. 2018 , 4, e00671		10
504	Toxicity and Metal Corrosion of Glutaraldehyde-Didecyldimethylammonium Bromide as a Disinfectant Agent. 2018 , 2018, 9814209		8
503	Detection of in Milk and Clinical Samples by Magnetic Immunocaptured-Loop-Mediated Isothermal Amplification Assay. <i>Frontiers in Microbiology</i> , 2018 , 9, 94	5.7	23
502	Editorial: Vibrionaceae Diversity, Multidrug Resistance and Management. <i>Frontiers in Microbiology</i> , 2018 , 9, 563	5.7	11
501	Multiple Cross Displacement Amplification Coupled With Nanoparticles-Based Lateral Flow Biosensor for Detection of and Identification of Methicillin-Resistant. <i>Frontiers in Microbiology</i> , 2018 , 9, 907	5.7	26
500	Detection of Foodborne Pathogens by Surface Enhanced Raman Spectroscopy. <i>Frontiers in Microbiology</i> , 2018 , 9, 1236	5.7	62
499	Emerging Biosensing Technologies for Neuroinflammatory and Neurodegenerative Disease Diagnostics. 2018 , 11, 164		19
498	Conventional and emerging detection techniques for pathogenic bacteria in food science: A review. 2018 , 81, 61-73		110

497	Ultrasensitive electrochemiluminescence detection of Staphylococcus aureus via enzyme-free branched DNA signal amplification probe. 2018 , 117, 830-837	23
496	Refining the Results of a Classical SELEX Experiment by Expanding the Sequence Data Set of an Aptamer Pool Selected for Protein A. 2018 , 19,	10
495	Antimicrobial Peptides: Powerful Biorecognition Elements to Detect Bacteria in Biosensing Technologies. 2018 , 23,	44
494	Electrochemical Detection of O157:H7 in Water after Electrocatalytic and Ultraviolet Treatments Using a Polyguanine-Labeled Secondary Bead Sensor. 2018 , 18,	8
493	Ultrasensitive Electrochemical Detection of DNA Based Morphology-Dependent DNA Adsorption Properties of CeOlNanorods in Dairy Products. 2018 , 18,	22
492	Microbiological safety of street-vended foods in Bangladesh. 2018 , 13, 257-269	5
491	Development of a self-priming PDMS/paper hybrid microfluidic chip using mixed-dye-loaded loop-mediated isothermal amplification assay for multiplex foodborne pathogens detection. 2018 , 1040, 81-89	41
490	Functional Nucleic Acid Based Biosensor for Microorganism Detection. 2018 , 15-79	
489	Sensitive multiplex detection of whole bacteria using self-assembled cell binding domain complexes. 2018 , 1030, 156-165	10
488	Overview of Trends in the Application of Metagenomic Techniques in the Analysis of Human Enteric Viral Diversity in Africa's Environmental Regimes. 2018 , 10,	7
487	Cyclopropylamine plasma polymer surfaces for label-free SPR and QCM immunosensing of Salmonella. 2018 , 276, 447-455	23
486	Development of MoSelNano-Urchins as a Sensing Platform for a Selective Bio-Capturing of Escherichia. coli Shiga Toxin DNA. 2018 , 8,	17
485	Strategies Behind Biosensors for Food and Waterborne Pathogens. 2018, 107-141	1
484	Foodborne Pathogens Detection: Persevering Worldwide Challenge. 2018,	3
483	Current and Emerging Technologies for Rapid Detection of Pathogens. 2018,	3
482	13-Docosenamide release by bacteria in response to glucose during growth-fluorescein quenching and clinical application. 2018 , 102, 6673-6685	5
481	Real-time and rapid detection of Salmonella Typhimurium using an inexpensive lab-built surface plasmon resonance setup. 2018 , 15, 075701	8
480	. 2018 , 17, 1006-1013	4

479	An efficient isolation of foodborne pathogen using surface-modified porous sponge. 2019 , 270, 445-451	12
478	Optimal Conditions for the Asymmetric Polymerase Chain Reaction for Detecting Food Pathogenic Bacteria Using a Personal SPR Sensor. 2019 , 187, 323-337	6
477	Lowest Detectable Protein Immobilization Measurement Using an Ultrasensitive Micropillar-Based Quartz Crystal Microbalance (QCM-P) Device. 2019 , 19, 9672-9679	3
476	Quantitation of monoclonal antibody by capture ELISA based on initial enzyme activity rate. 2019 , 474, 112645	1
475	Allele-Specific Loop-Mediated Isothermal Amplification for the Detection of IVSII-I G>A Mutation On EGlobin Gene. 2019 , 7, 1582-1587	3
474	Paper-Based Diagnostic System Facilitating Assessments by Duplex Coloration. 2019 , 4, 2435-2441	9
473	Lateral flow biosensor combined with loop-mediated isothermal amplification for simple, rapid, sensitive, and reliable detection of spp. 2019 , 12, 2343-2353	16
472	Application of Hyperspectral Imaging as a Nondestructive Technique for Foodborne Pathogen Detection and Characterization. 2019 , 16, 712-722	9
471	An on-site bacterial detection strategy based on broad-spectrum antibacterial polylysine functionalized magnetic nanoparticles combined with a portable fluorometer. 2019 , 186, 526	8
470	Applications of Iron Oxide-Based Magnetic Nanoparticles in the Diagnosis and Treatment of Bacterial Infections. 2019 , 7, 141	58
469	Lab in a Pasteur pipette: low-cost, rapid and visual detection of Bacillus cereu using denaturation bubble-mediated strand exchange amplification. 2019 , 1080, 162-169	12
468	Development of multiplex PCR for neglected infectious diseases. 2019 , 13, e0007440	6
467	Electrochemical and Optical Biosensors for the Detection of and : An Update Look. <i>Micromachines</i> , 2019, 10,	31
466	A novel impedimetric sensor for detecting LAMP amplicons of pathogenic DNA based on magnetic separation. 2019 , 301, 127051	12
465	Rapid identification of Dendrobium officinale using Loop-Mediated Isothermal Amplification (LAMP) method. 2019 , 17, 337-345	2
464	Real-time PCR methods for detecting Salmonella spp. in food after different DNA extraction procedures. 2019 , 333, 012041	
463	Ultrasensitive Chemiluminescence Biosensor for Nuclease and Bacterial Determination Based on Hemin-Encapsulated Mesoporous Silica Nanoparticles. 2019 , 4, 2922-2929	28
462	RNA detection with high specificity and sensitivity using nested fluorogenic Mango NASBA. 2019 , 25, 1806-1813	12

461	Dark-Field Microscopic Detection of Bacteria using Bacteriophage-Immobilized SiO@AuNP Core-Shell Nanoparticles. 2019 , 91, 12352-12357	21
460	Validation and verification of LAMP, ISO, and VIDAS UP methods for detection of Escherichia coli O157:H7 in different food matrices. 2019 , 165, 105697	4
459	A fluorescence Nano-biosensors immobilization on Iron (MNPs) and gold (AuNPs) nanoparticles for detection of Shigella spp. 2019 , 105, 110113	40
458	Simple lysis of bacterial cells for DNA-based diagnostics using hydrophilic ionic liquids. 2019 , 9, 13994	16
457	Microfluidic-Based Approaches for Foodborne Pathogen Detection. 2019, 7,	25
456	Protein-functionalized fluorocarbon hemosorbent for binding to hepatitis B surface antigen. 2019 , 227, 109372	1
455	Rapid diagnosis of Mycoplasma pneumonia infection by denaturation bubble-mediated strand exchange amplification: comparison with LAMP and real-time PCR. 2019 , 9, 896	10
454	Characterization of Bacteria Signal Propagation With an Absorbing Wall. 2019 , 23, 744-747	1
453	Synchrotron infrared spectral regions as signatures for foodborne bacterial typing. 2019 , 30, 1	4
452	Highly sensitive optical biosensing of Staphylococcus aureus with an antibody/metal@rganic framework bioconjugate. 2019 , 11, 917-923	24
451	Porous Silicon-Based Aptasensors: The Next Generation of Label-Free Devices for Health Monitoring. 2019 , 24,	20
450	Exploring DNA quantity and quality from raw materials to botanical extracts. 2019 , 5, e01935	6
449	Principles of Hyperspectral Microscope Imaging Techniques and Their Applications in Food Quality and Safety Detection: A Review. 2019 , 18, 853-866	27
448	Evaluation of the GeneFields EHEC/SS PCR dipstick DNA chromatography kit for the detection of enteric bacterial pathogens in stool specimens of healthy humans. 2019 , 161, 111-117	
447	Conjugated Oligo- and Polymers for Bacterial Sensing. 2019 , 7, 265	9
446	Large-Scale Genomic Analyses and Toxinotyping of Implicated in Foodborne Outbreaks in France. Frontiers in Microbiology, 2019 , 10, 777	23
445	Assessing the relationship between organic farming practices and microbiological characteristics of organic lettuce varieties (Lactuca sativa L.) grown in Sao Paulo, Brazil. 2019 , 127, 237-247	3
444	Rapid methods and sensors for milk quality monitoring and spoilage detection. 2019 , 140, 111272	58

443	Detection of 12 Common Food-Borne Bacterial Pathogens by TaqMan Real-Time PCR Using a Single Set of Reaction Conditions. <i>Frontiers in Microbiology</i> , 2019 , 10, 222	45	
442	Detection of helminths by loop-mediated isothermal amplification assay: a review of updated technology and future outlook. 2019 , 8, 20	29	
441	Rapid Detection of spp. and Elimination of Carryover Using Multiple Cross Displacement Amplification Coupled With Nanoparticles-Based Lateral Flow Biosensor. 2019 , 9, 78	19	
440	Advances in electrochemical immunosensors for pathogens. 2019 , 14, 66-70	4	
439	Glycoconjugates coated gold nanorods based novel biosensor for optical detection and photothermal ablation of food borne bacteria. 2019 , 289, 207-215	26	
438	Recent advances in the treatment of pathogenic infections using antibiotics and nano-drug delivery vehicles. 2019 , 13, 327-343	60	
437	One-step sensing of foodborne pathogenic bacteria using a 3D paper-based device. 2019 , 144, 2248-2255	17	
436	Chitosan-Based Bionanocomposite Films Prepared by Emulsion Technique for Food Preservation. 2019 , 12,	35	
435	Emerging Point-of-care Technologies for Food Safety Analysis. 2019 , 19,	62	
434	A reduced graphene oxide-titanium dioxide nanocomposite based electrochemical aptasensor for rapid and sensitive detection of Salmonella enterica. 2019 , 127, 136-144	39	
433	Simultaneous Nucleic Acids Detection and Elimination of Carryover Contamination With Nanoparticles-Based Biosensor- and Antarctic Thermal Sensitive Uracil-DNA-Glycosylase-Supplemented Polymerase Spiral Reaction. 2019 , 7, 401	O	
432	Rapid Calorimetric Detection of Bacterial Contamination: Influence of the Cultivation Technique. 5-7	6	
431	Microfluidic Array Chip for Parallel Detection of Waterborne Bacteria. <i>Micromachines</i> , 2019 , 10, 3.3	5	
430	Multiplex Nested Solid Phase PCR-Array Chip for Simultaneous Detection of Highly Pathogenic Microorganisms. 2019 , 47, 1751-1758	2	
429	Gold nanoparticle-based colorimetric platform technology as rapid and efficient bacterial pathogens detection method from various sources. 2019 , 30, 128-132	4	
428	Rotary manifold for automating a paper-based immunoassay 2019 , 9, 29078-29086	12	
427	High sensitivity biosensor for Staphylococcus Aureus detection based on tapered a singlemode-no core-singlemode fiber structure. 2019 ,		
426	Virus risk in the food supply chain. 2019 , 30, 43-48	22	

425	Microfluidic based impedance biosensor for pathogens detection in food products. 2019, 40, 508-520	17
424	Impedance-Based Detection of Bacteria. 2019 , 119, 700-726	119
423	Real-time PCR quantification of Fusarium avenaceum in soil and seeds. 2019 , 157, 21-30	7
422	Rapid detection of Salmonella Typhimurium using magnetic nanoparticle immunoseparation, nanocluster signal amplification and smartphone image analysis. 2019 , 284, 134-139	27
421	Supported cobalt nanoparticles on graphene oxide/mesoporous silica for oxidation of phenol and electrochemical detection of H2O2 and Salmonella spp. 2019 , 232, 493-505	14
420	Determining meat freshness using electrochemistry: Are we ready for the fast and furious?. 2019 , 150, 40-46	14
419	Rapid and specific detection of Salmonella infections using chemically modified nucleic acid probes. 2019 , 1054, 157-166	10
418	Anti-adhesion of probiotic Enterococcus faecium WEFA23 against five pathogens and the beneficial effect of its S-layer proteins against Listeria monocytogenes. 2019 , 65, 175-184	7
417	Carbon Nanomaterial-Based Electrochemical Biosensors for Foodborne Bacterial Detection. 2019 , 49, 510-533	42
416	Lectin-based detection of Escherichia coli and Staphylococcus aureus by flow cytometry. 2019 , 201, 313-324	10
415	Visualized Detection of Vibrio parahaemolyticus in Food Samples Using Dual-Functional Aptamers and Cut-Assisted Rolling Circle Amplification. 2019 , 67, 1244-1253	31
414	Non-specific Liquid Fingerprinting in Monitoring the Hygiene and Authenticity of Milk. 2019 , 12, 160-165	1
413	Rapid detection of Salmonella in milk by biofunctionalised magnetic nanoparticle cluster sensor based on nuclear magnetic resonance. 2019 , 91, 82-88	37
412	In situ formation of gold nanoparticles in polymer inclusion membrane: Application as platform in a label-free potentiometric immunosensor for Salmonella typhimurium detection. 2019 , 194, 134-142	32
411	Large-area GMR bio-sensors based on reverse nucleation switching mechanism. 2019, 473, 484-489	10
410	Colorimetric and test stripe-based assay of bacteria by using vancomycin-modified gold nanoparticles. 2019 , 281, 408-414	19
409	A Loop-Mediated Isothermal Amplification Integrated G-Quadruplex Molecular Beacon (LAMP-GMB) Method for the Detection of Staphylococcus aureus in Food. 2019 , 12, 422-430	7
408	Entrapment of uropathogenic E. coli cells into ultra-thin sol-gel matrices on gold thin films: A low cost alternative for impedimetric bacteria sensing. 2019 , 124-125, 161-166	15

(2020-2019)

407	Status and Recent Developments in Analytical Methods for the Detection of Foodborne Microorganisms. 2019 , 323-334	3
406	Status of faecal pollution in ports: A basin-wide investigation in the Adriatic Sea. 2019 , 147, 219-228	17
405	Combination of bacteria concentration and DNA concentration for rapid detection of E. coli O157:H7, L. monocytogenes, and S. Typhimurium without microbial enrichment. 2020 , 117, 108609	9
404	Two rapid and sensitive methods based on TaqMan qPCR and droplet digital PCR assay for quantitative detection of Bacillus subtilis in rhizosphere. 2020 , 128, 518-527	3
403	Identifying non-O157 Shiga toxin-producing Escherichia coli (STEC) using deep learning methods with hyperspectral microscope images. 2020 , 224, 117386	3
402	Establishment and application of a multiplex PCR assay for detection of Rhizoctonia cerealis, Bipolaris sorokiniana, and Fusarium spp. in winter wheat. 2020 , 102, 19-27	3
401	Molecular techniques for the detection of bacterial zoonotic pathogens in fish and humans. 2020 , 28, 309-320	1
400	Novel spider web trap approach based on chitosan/cellulose nanocrystals/glycerol membrane for the detection of Escherichia coli O157:H7 on food surfaces. 2020 , 146, 1009-1014	10
399	Rapid methods of microbial detection in dairy products. 2020 , 110, 107008	17
398	Electrochemical assays for microbial analysis: how far they are from solving microbiota and microbiome challenges. 2020 , 19, 153-161	11
397	Immuno- and nucleic acid-based current technique for Salmonella detection in food. 2020 , 246, 373-395	7
396	Detection of microorganisms with lateral flow test strips. 2020 , 47, 351-394	5
395	Rapid analysis of Escherichia coli O157:H7 using isothermal recombinase polymerase amplification combined with triple-labeled nucleotide probes. 2020 , 50, 101501	15
394	Toehold-mediated strand displacement reaction formation of three-way junction DNA structure combined with nicking enzyme signal amplification for highly sensitive colorimetric detection of Salmonella Typhimurium. 2020 , 1139, 138-145	10
393	Detection of pathogenic bacteria with special emphasis to biosensors integrated with AuNPs. 2020 , 1, 100028	14
392	Present scenario of antibiotic use in veterinary practice: importance of wastewater microbiology. 2020 , 279-325	1
391	Rapid identification and detection of Vibrio parahaemolyticus via different types of modus operandi with LAMP method in vivo. 2020 , 70,	1
390	Differentiation of gene for detection of serotype O157: H7 and type 1 in food samples using high resolution melting curve analysis. 2020 , 8, 3665-3672	6

389	Rapid identification of a subset of foodborne bacteria in live-cell assays. 2020, 104, 10571-10584		O
388	Rapid, Quantitative, High-Sensitive Detection of O157:H7 by Gold-Shell Silica-Core Nanospheres-Based Surface-Enhanced Raman Scattering Lateral Flow Immunoassay. <i>Frontiers in Microbiology</i> , 2020 , 11, 596005	7	13
387	Ultrasensitive peptide-based multiplexed electrochemical biosensor for the simultaneous detection of Listeria monocytogenes and Staphylococcus aureus. 2020 , 187, 486		26
386	Commercial sensors for pathogen detection. 2020 , 89-106		4
385	Foodborne bacterial stress responses to exogenous reactive oxygen species (ROS) induced by cold plasma treatments. 2020 , 103, 239-247		14
384	Determination of the Microbial and Chemical Loads in Rivers from the Quito Capital Province of Ecuador (Pichincha)-A Preliminary Analysis of Microbial and Chemical Quality of the Main Rivers. 2020 , 17,		11
383	Rapid and sensitive detection of Salmonella spp. in raw minced meat samples using droplet digital PCR. 2020 , 246, 1895-1907		2
382	Preliminary Evidence of a Molecular Detection Method to Analyze Bacterial DNA as a Quality Indicator in Cosmetics. 2020 , 7, 54		1
381	Screen-Printed Electrodes (SPE) for In Vitro Diagnostic Purpose. 2020 , 10,		24
3 80	Graphene biosensors for bacterial and viral pathogens. 2020 , 166, 112471		55
379	Electrochemical Immuno- and Aptamer-Based Assays for Bacteria: Pros and Cons over Traditional Detection Schemes. 2020 , 20,		7
378	Current research progress of mammalian cell-based biosensors on the detection of foodborne pathogens and toxins. 2020 , 1-17		7
377	Precise Populations' Description in Dairy Ecosystems Using Digital Droplet PCR: The Case of Group in Starters. <i>Frontiers in Microbiology</i> , 2020 , 11, 1906	7	1
376	Modified Enzyme Substrates for the Detection of Bacteria: A Review. 2020 , 25,		6
375	Exotoxins and Their Detection in the Dairy Industry and Mastitis. 2020 , 12,		17
374	Glycoprotein- and Lectin-Based Approaches for Detection of Pathogens. 2020 , 9,		5
373	A smartphone microscopic method for simultaneous detection of (00)cysts of Cryptosporidium and Giardia. 2020 , 14, e0008560		3
372	Cellulase-Linked Immunomagnetic Microbial Assay on Electrodes: Specific and Sensitive Detection of a Single Bacterial Cell. 2020 , 92, 12451-12459		8

(2020-2020)

371	A fluorescence immunoassay for a rapid detection of Listeria monocytogenes on working surfaces. 2020 , 10, 21729		3
370	Loop-Mediated Isothermal Amplification (LAMP) as a Rapid, Affordable and Effective Tool to Involve Students in Undergraduate Research. <i>Frontiers in Microbiology</i> , 2020 , 11, 603381	7	1
369	A Dual Immunological Raman-Enabled Crosschecking Test (DIRECT) for Detection of Bacteria in Low Moisture Food. 2020 , 10,		3
368	Rapid Detection of Diarrheagenic Escherichia coli by a New Multiplex Real-Time Quantitative PCR Assay. 2020 , 56, 748-757		O
367	A lateral flow biosensor based on gold nanoparticles detects four hemorrhagic fever viruses. 2020 , 12, 5613-5620		2
366	Rapid quantification of Escherichia coli O157:H7 in lettuce and beef using an on-chip staining microfluidic device. 2020 , 40, e12851		O
365	Polymyxin Bihodified upconversion nanoparticles for selective detection of Gram-negative bacteria such as Escherichia coli. 2020 , 44, 756-761		5
364	Epidemiological and Genomic Characterization of Isolates from a Foodborne Outbreak at Hangzhou, China. 2020 , 21,		16
363	Validation of a Modified Version of Actero\subseteq almonella Enrichment Media for Rapid Detection of Salmonella spp. in Environmental and Food Samples. 2020 , 103, 1326-1337		
362	Recent Progress on the Electrochemical Biosensing of O157:H7: Material and Methods Overview. 2020 , 10,		9
361	qPCR quantification of Carnobacterium maltaromaticum, Brochothrix thermosphacta, and Serratia liquefaciens growth kinetics in mixed culture. 2020 , 175, 105961		0
360	A fully integrated microdevice for capturing, amplification, and colorimetric detection of foodborne pathogens. 2020 , 26, 3875-3883		1
359	Application of Biosensors for Detection of Pathogenic Food Bacteria: A Review. 2020 , 10,		34
358	A lateral flow strip combined with Cas9 nickase-triggered amplification reaction for dual food-borne pathogen detection. 2020 , 165, 112364		24
357	A LAMP-based ratiometric electrochemical sensing for ultrasensitive detection of Group B Streptococci with improved stability and accuracy. 2020 , 321, 128502		12
356	A smartphone-based bacteria sensor for rapid and portable identification of forensic saliva sample. 2020 , 320, 128303		12
355	Identification of two aptamers binding to Legionella pneumophila with high affinity and specificity. 2020 , 10, 9145		11
354	Multiplex loop-mediated isothermal amplification-based lateral flow dipstick for simultaneous detection of 3 food-borne pathogens in powdered infant formula. 2020 , 103, 4002-4012		18

353	Nucleic Acid Detection Using CRISPR/Cas Biosensing Technologies. 2020, 9, 1226-1233		105
352	Nucleic AcidBased Methods in the Detection of Foodborne Pathogens. 2020 , 143-161		1
351	Electrochemical biosensors for the detection of pathogenic bacteria in food. 2020 , 126, 115863		63
350	Biosensors/molecular tools for detection of waterborne pathogens. 2020 , 237-277		11
349	Methods for detection of viable foodborne pathogens: current state-of-art and future prospects. 2020 , 104, 4281-4288		38
348	Bacteriophage Based Biosensors: Trends, Outcomes and Challenges. 2020 , 10,		23
347	Campylobacteriosis Agents in Meat Carcasses Collected from Two District Municipalities in the Eastern Cape Province, South Africa. <i>Foods</i> , 2020 , 9,	4.9	9
346	Incidence of antibiotic resistance in Vibrio spp. 2020 , 12, 2590-2608		18
345	Fluorescent Materials With Aggregation-Induced Emission Characteristics for Array-Based Sensing Assay. 2020 , 8, 288		7
344	Real-Time Photoluminescent Biosensing Based on Graphene Oxide-Coated Microplates: A Rapid Pathogen Detection Platform. 2020 , 92, 11511-11515		10
343	Inkjet printing of paraffin on paper allows low-cost point-of-care diagnostics for pathogenic fungi. 2020 , 27, 7691-7701		17
342	Outer-Membrane Protease (OmpT) Based E. coli Sensing with Anionic Polythiophene and Unlabeled Peptide Substrate. 2020 , 59, 18068-18077		2
341	Validation of Droplet Digital Polymerase Chain Reaction for spp. Quantification. <i>Frontiers in Microbiology</i> , 2020 , 11, 1512	5.7	8
340	Long-Period Gratings and Microcavity In-Line Mach Zehnder Interferometers as Highly Sensitive Optical Fiber Platforms for Bacteria Sensing. 2020 , 20,		13
339	A TaqMan-based multiplex real-time PCR assay for the rapid detection of tigecycline resistance genes from bacteria, faeces and environmental samples. 2020 , 20, 174		1
338	Loop-mediated isothermal amplification (LAMP) reaction as viable PCR substitute for diagnostic applications: a comparative analysis study of LAMP, conventional PCR, nested PCR (nPCR) and real-time PCR (qPCR) based on Entamoeba histolytica DNA derived from faecal sample. 2020 , 20, 34		17
337	Developing a dual-RCA microfluidic platform for sensitive E.Izoli O157:H7 whole-cell detections. 2020 , 1127, 79-88		14
336	Outer-Membrane Protease (OmpT) Based E. coli Sensing with Anionic Polythiophene and Unlabeled Peptide Substrate. 2020 , 132, 18224-18233		0

335	Biological Biosensors for Monitoring and Diagnosis. 2020 , 317-335	31
334	Predominant Mycotoxins, Pathogenesis, Control Measures, and Detection Methods in Fermented Pastes. 2020 , 12,	3
333	An immunosensor for sensitive photoelectrochemical detection of Staphylococcus aureus using ZnS-AgS/polydopamine as photoelectric material and CuO as peroxidase mimic tag. 2020 , 212, 120797	16
332	Single-cell classification of foodborne pathogens using hyperspectral microscope imaging coupled with deep learning frameworks. 2020 , 309, 127789	11
331	Classification of foodborne bacteria using hyperspectral microscope imaging technology coupled with convolutional neural networks. 2020 , 104, 3157-3166	9
330	Design of a Smart System for Rapid Bacterial Test. 2020 , 12, 15	O
329	An -Synthesized Gene Chip for the Detection of Food-Borne Pathogens on Fresh-Cut Cantaloupe and Lettuce. <i>Frontiers in Microbiology</i> , 2019 , 10, 3089	12
328	Detection of enterohaemorrhagic Escherichia coli in food by droplet digital PCR to detect simultaneous virulence factors in a single genome. 2020 , 90, 103466	11
327	Pathogenic Escherichia coli (E. coli) detection through tuned nanoparticles enhancement study. 2020 , 42, 853-863	14
326	Principal component analysis of MALDI-TOF MS of whole-cell foodborne pathogenic bacteria. 2020 , 592, 113582	6
325	Ultra-fast and universal detection of Gram-negative bacteria in complex samples based on colistin derivatives. 2020 , 8, 2111-2119	5
324	A homogeneous magnetic bead-based impedance immunosensor for highly sensitive detection of Escherichia coli O157:H7. 2020 , 156, 107513	7
323	A One-Pot Toolbox Based on Cas12a/crRNA Enables Rapid Foodborne Pathogen Detection at Attomolar Level. 2020 , 5, 1427-1435	46
322	Synergistic antimicrobial effects of activated lactoferrin and rosemary extract in vitro and potential application in meat storage. 2020 , 57, 4395-4403	5
321	Laser-Induced Graphene Electrochemical Immunosensors for Rapid and Label-Free Monitoring of in Chicken Broth. 2020 , 5, 1900-1911	62
320	Electrochemical biosensors for pathogen detection. 2020 , 159, 112214	239
319	Emerging electrochemical biosensing approaches for detection of Listeria monocytogenes in food samples: An overview. 2020 , 99, 621-633	20
318	Identification and Antimicrobial Susceptibility Testing of Using a Microfluidic Lab-on-a-Chip Device. 2020 , 86,	14

317	Chitosan Stabilized Silver Nanoparticles for the Electrochemical Detection of Lipopolysaccharide: A Facile Biosensing Approach for Gram-Negative Bacteria. <i>Micromachines</i> , 2020 , 11,	3.3	12
316	High Resolution Melt Assays to Detect and Identify , , , and Bacteria. 2020 , 8,		4
315	RT-LAMP for rapid diagnosis of coronavirus SARS-CoV-2. 2020 , 13, 950-961		244
314	Multi-functional MnO-doped FeO nanoparticles as an artificial enzyme for the colorimetric detection of bacteria. 2020 , 412, 3135-3140		6
313	An alternative strategy to detect bacterial contamination in milk and water: a newly designed electrochemical biosensor. 2020 , 246, 1317-1324		8
312	Detection of Salmonella Typhimurium and Listeria monocytogenes biofilm cells exposed to different drying and pre-enrichment times using conventional and rapid methods. 2020 , 324, 108611		7
311	Miniaturized Paper-Supported 3D Cell-Based Electrochemical Sensor for Bacterial Lipopolysaccharide Detection. 2020 , 5, 1325-1335		32
310	Point-of-Need Diagnostics for Foodborne Pathogen Screening. 2021 , 26, 55-79		4
309	Rapid detection of SARS-CoV-2 antibodies using electrochemical impedance-based detector. 2021 , 171, 112709		82
308	Recent trends in the utilization of LAMP for the diagnosis of viruses, bacteria, and allergens in food. 2021 , 291-297		1
307	Field grand challenge with emerging superbugs and the novel coronavirus (SARS-CoV-2) on plastics and in water. 2021 , 9, 104721		3
306	SERS imaging analyses of bacteria cells among plant tissues. 2021 , 225, 122008		2
305	Methods of detection of food-borne pathogens: a review. 2021 , 19, 189-207		30
304	Identification of novel monoclonal antibodies targeting the outer membrane protein C and lipopolysaccharides for Escherichia coli O157:H7 detection. 2021 , 130, 1245-1258		3
303	Label-free E. coli detection based on enzyme assay and a microfluidic slipchip. 2021 , 146, 4622-4629		4
302	TCF-ALP: a fluorescent probe for the selective detection of bacteria and application in "smart" wound dressings. 2021 , 9, 4433-4439		2
301	How to Evaluate Non-Growing Cells-Current Strategies for Determining Antimicrobial Resistance of VBNC Bacteria. 2021 , 10,		9
300	Development of Fluorescence Imaging Technique to Detect Fresh-Cut Food Organic Residue on Processing Equipment Surface. 2021 , 11, 458		1

299	Nucleic acid-based rapid methods for the detection of foodborne pathogens. 2021 , 1759, 012023		2
298	Nanotechnology for detection and control of waterborne pathogens. 2021 , 291-323		
297	FISH in Food Samples. 2021 , 2246, 279-290		
296	Paper-Based Kits for Food Analysis and Authentication. 2021 , 249-281		
295	A comparison of different DNA extraction methods and molecular techniques for the detection and identification of foodborne pathogens. 2021 , 7, 304-319		
294	Applications of bioluminescence in biotechnology and beyond. 2021 , 50, 5668-5705		25
293	Proximity ligation assay: an ultrasensitive method for protein quantification and its applications in pathogen detection. 2021 , 105, 923-935		1
292	A comprehensive review on current COVID-19 detection methods: From lab care to point of care diagnosis. 2021 , 2, 100119		17
291	Advances in differentiation and identification of foodborne bacteria using near infrared spectroscopy. 2021 , 13, 2558-2566		2
290	Targeted Proteomics for Rapid and Sensitive Detection of Foodborne Pathogens. 2021 , 123-136		
289	One-Dimensional Flow of Bacteria on an Electrode Rail by Dielectrophoresis: Toward Single-Cell-Based Analysis. <i>Micromachines</i> , 2021 , 12,	3.3	1
288	Updated insight into COVID-19 disease and health management to combat the pandemic. 2021 , 3-39		4
287	Covalent capture and electrochemical quantification of pathogenic. 2021 , 57, 2507-2510		8
286	Machine Learning Prediction of Foodborne Disease Pathogens: Algorithm Development and Validation Study. 2021 , 9, e24924		4
285	Introduction on Techniques to Measure Food Safety and Quality. 2021 , 1-10		
284	Imprinted Polymers as Synthetic Receptors in Sensors for Food Safety. 2021 , 11,		8
283	Molecular imprinting technology for sensing foodborne pathogenic bacteria. 2021 , 413, 4581-4598		9
282	Induced volatolomics of pathologies. 2021 , 5, 183-196		6

Methods To Improve Molecular Detection of Salmonella in Complex Herbal Matrices Containing Inhibitors. **2021**, 84, 1309-1314

280	An Engineered Reporter Phage for the Fluorometric Detection of in Ground Beef. 2021 , 9,	2
279	Photocatalytic Inactivation as a Method of Elimination of E. coli from Drinking Water. 2021 , 11, 1313	8
278	Ultrasensitive Detection of 17Estradiol (E2) Based on Multistep Isothermal Amplification. 2021 , 93, 4488-4496	10
277	Development of Two-Dimensional Nanomaterials Based Electrochemical Biosensors on Enhancing the Analysis of Food Toxicants. 2021 , 22,	6
276	Evaluation of a commercial loop-mediated isothermal amplification assay, 3M Molecular Detection Assay 2 - , for the detection of from poultry matrices. 2021 , 62, 404-413	2
275	Evaluation of Bacterial Load and Antibiotic Resistance Pattern of from Ready-to-Eat Raw Beef in Bahir Dar City, Ethiopia. 2021 , 2021, 5560596	0
274	The power of microsystem technology in the food industry (Going small makes it better. 2021 , 68, 102613	1
273	Label-Free Electrochemical Biosensor Based on Au@MoSPANI for Escherichia coli Detection. 2021 , 9, 49	3
272	Portable Capillary Sensor Integrated with Plasmonic Platform for Monitoring Water Pollutants. 2021 , 16, 1677-1683	
271	Quaternary ammonium functionalized cationic polythiophene for the detection and imaging of gram-positive bacteria. 1	0
270	Detection of Campylobacter jejuni from Fresh Produce: Comparison of Culture- and PCR-based Techniques, and Metagenomic Approach for Analyses of the Microbiome before and after Enrichment. 2021 , 84, 1704-1712	2
269	Detection of Bacterial Metabolic Volatile Indole Using a Graphene-Based Field-Effect Transistor Biosensor. 2021 , 11,	4
268	Detection and Aggregation of Listeria Monocytogenes Using Polyclonal Antibody Gold-Coated Magnetic Nanoshells Surface-Enhanced Raman Spectroscopy Substrates. 2021 , 3,	1
267	Snipe: highly sensitive pathogen detection from metagenomic sequencing data. 2021 , 22,	1
266	Raman spectroscopy and artificial intelligence open up accurate detection of pathogens from DNA-based sub-species level classification.	6
265	Flow-Through Electrochemical Biosensor for the Detection of Using Oligonucleotides. 2021 , 21,	3
264	Selected Instrumental Techniques Applied in Food and Feed: Quality, Safety and Adulteration Analysis. <i>Foods</i> , 2021 , 10,	6

(2021-2021)

263	Raman spectroscopy combined with machine learning for rapid detection of food-borne pathogens at the single-cell level. 2021 , 226, 122195	18
262	Present and pioneer methods of early detection of food borne pathogens. 1	2
261	Electrochemical Sensors to Detect Bacterial Foodborne Pathogens. 2021 , 6, 1717-1730	14
2 60	Prevalence and Characterization of Food-Borne From African Salad in Southern Nigeria. <i>Frontiers in Microbiology</i> , 2021 , 12, 632266	1
259	Genomic analysis of high copy-number sequences for the targeted detection of Listeria species using a flow-through surveillance system. 2021 , 203, 3667-3682	
258	Optimization and validation of a loop-mediated isothermal amplification (LAMP) assay for detection of in leafy greens. 2021 , 23, e00123	2
257	Simultaneous enumeration of Cronobacter sakazakii and Staphylococcus aureus in powdered infant foods through duplex TaqMan real-time PCR. 2021 , 117, 105019	3
256	Magnetic Separation and Centri-Chronoamperometric Detection of Foodborne Bacteria Using Antibiotic-Coated Metallic Nanoparticles. 2021 , 11,	O
255	Highly specific and sensitive detection of the Mycobacterium tuberculosis complex using multiplex loop-mediated isothermal amplification combined with a nanoparticle-based lateral flow biosensor. 2021 , 52, 1315-1325	2
254	Hand-Powered Microfluidics for Parallel Droplet Digital Loop-Mediated Isothermal Amplification Assays. 2021 , 6, 2868-2874	2
253	Application of Raman Spectroscopic Methods in Food Safety: A Review. 2021 , 11,	16
252	Upconversion luminescent nanomaterials: A promising new platform for food safety analysis. 2021 , 1-42	3
251	Perspectives of Nano-Materials and Nanobiosensors in Food Safety and Agriculture.	3
250	Rapid and simultaneous detection of Campylobacter spp. and Salmonella spp. in chicken samples by duplex loop-mediated isothermal amplification coupled with a lateral flow biosensor assay. 2021 , 16, e0254029	1
249	Nucleic Acid Tests for Clinical Translation. 2021 , 121, 10469-10558	23
248	Miniaturized DNA amplification platform with soft-lithographically fabricated continuous-flow PCR microfluidic device on a portable temperature controller. 2021 , 25, 1	5
247	Nondestructive multiplex detection of foodborne pathogens with background microflora and symbiosis using a paper chromogenic array and advanced neural network. 2021 , 183, 113209	5
246	Rapid detection and enumeration of aerobic mesophiles in raw foods using dielectrophoresis. 2021 , 186, 106251	1

245	Applications of Raman Spectroscopy in Bacterial Infections: Principles, Advantages, and Shortcomings. <i>Frontiers in Microbiology</i> , 2021 , 12, 683580	5.7	4
244	Prokaryotic diversity and potentially pathogenic bacteria in vended foods and environmental samples. 2021 , 71,		1
243	Instrumental analytical tools for mycobacteria characterisation. 2021, 39, 235-264		1
242	Detection of Salmonella typhimurium ATCC 14028 in Powder Prepared Traditional Medicines Using Real-Time PCR. 2021 , 4, 178-183		1
241	Culture-free biphasic approach for sensitive detection of Escherichia coli O157:H7 from beef samples. 2021 , 118, 4516-4529		1
240	Enzyme-Free Multiplex Detection of Foodborne Pathogens Using Au Nanoparticles-Decorated Multiwalled Carbon Nanotubes. 2021 , 1, 1236-1246		1
239	[Evaluation of Simple and Rapid Shiga Toxin Gene Detection of Enterohemorrhagic Escherichia coliin Food Using 3M Molecular Detection Assay2-STEC Gene Screen Kit]. 2021 , 62, 129-132		
238	Establishment and validation of a loop-mediated isothermal amplification (LAMP) assay targeting the ttrRSBCA locus for rapid detection of Salmonella spp. in food. 2021 , 126, 107973		2
237	Identification of a specific surface epitope of OmpC for Escherichia coli O157:H7 with protein topology facilitated affinity mass spectrometry. 2021 , 105, 6819-6833		1
236	Kinetic analysis of microcalorimetric data derived from microbial growth: Basic theoretical, practical and industrial considerations. 2021 , 187, 106276		1
235	Changes of Viscoelastic Properties of Aptamer-Based Sensing Layers Following Interaction with. 2021 , 21,		2
234	Determining the microbial and chemical contamination in Ecuador's main rivers. 2021 , 11, 17640		1
233	Advances in electrochemical aptasensors and immunosensors for detection of bacterial pathogens in food. 2021 , 389, 138724		4
232	Two-dimensional quantum dots for biological applications. 2021 , 14, 3820		9
231	Rapid and visual detection of in aquatic foods using CARB-17 gene-based loop-mediated isothermal amplification with lateral flow dipstick (LAMP-LFD). 2021 , 31,		1
230	On-site detection of food and waterborne bacteria - current technologies, challenges, and future directions. 2021 , 115, 409-421		3
229	Amplification of Femtograms of Bacterial DNA Within 3 h Using a Digital Microfluidics Platform for MinION Sequencing. 2021 , 6, 25642-25651		3
228	Human sensor-inspired supervised machine learning of smartphone-based paper microfluidic analysis for bacterial species classification. 2021 , 188, 113335		7

(2020-2021)

227	Rapid point-of-need detection of bacteria and their toxins in food using gold nanoparticles. 2021 , 20, 5880-5900	6
226	Application of E-nose technology combined with artificial neural network to predict total bacterial count in milk. 2021 , 104, 10558-10565	O
225	Low-cost colorimetric reader and label-free strategy for user-friendly detection of nucleic acid amplification products. 2021 , 346, 130523	1
224	Characterization of chicken meat contaminated with Salmonella by fluorescence spectroscopy. 2021 , 261, 119986	Ο
223	Advances in microfluidic nanobiosensors for the detection of foodborne pathogens. 2021 , 151, 112172	6
222	Rapid identification of foodborne bacteria with hyperspectral microscopic imaging and artificial intelligence classification algorithms. 2021 , 130, 108379	3
221	An ultrasensitive and contamination-free on-site nucleic acid detection platform for Listeria monocytogenes based on the CRISPR-Cas12a system combined with recombinase polymerase amplification. 2021 , 152, 112166	5
220	A review of microbes and chemical contaminants in dairy products in sub-Saharan Africa. 2021 , 20, 1188-1220	6
219	Novel Synergistic Approaches of Nano-Biomaterials and Bacteriophage for Combating Antimicrobial Resistance. 2021 , 114-132	
218	Tryptamine-functionalized magnetic nanoparticles for highly sensitive detection of. 2021 , 146, 2559-2566	2
217	Electrochemical aptasensor for Escherichia coli O157:H7 bacteria detection using a nanocomposite of reduced graphene oxide, gold nanoparticles and polyvinyl alcohol. 2021 , 13, 3101-3109	6
216	DNA-based methods for species identification in food forensic science. 2021 , 181-211	O
215	Fluorescent aptamers for detection and treatment of pathogenic bacteria and cancer. 2021, 48, 135-177	
214	Multifunctional Printable Micropattern Array for Digital Nucleic Acid Assay for Microbial Pathogen Detection. 2021 , 13, 3098-3108	3
213	Novel Approaches for Detecting Water-Associated Pathogens. 2020 , 73-95	1
212	Measurement, Analysis, and Remediation of Biological Pollutants in Water. 2020 , 211-243	1
211	Microfluidics-integrated biosensing platforms as emergency tools for on-site field detection of foodborne pathogens. 2020 , 125, 115831	23
210	The Application of Bacteriophage Diagnostics for Bacterial Pathogens in the Agricultural Supply Chain: From Farm-to-Fork. 2020 , 1, 176-188	1

209	Integrons and antibiotic resistance genes in water-borne pathogens: threat detection and risk assessment. 2019 , 68, 679-692	13
208	Identification of two aptamers binding toLegionella pneumophilawith high affinity and specificity.	1
207	Microbiological safety of ready-to-eat foods in low- and middle-income countries: A comprehensive 10-year (2009 to 2018) review. 2020 , 19, 703-732	26
206	Development of loop-mediated isothermal amplification coupled with nanoparticle-based lateral flow biosensor assay for Mycoplasma pneumoniae detection. 2019 , 9, 196	10
205	Comparison of the intensity of biofilm formation by Listeria monocytogenes using classical culture-based method and digital droplet PCR. 2020 , 10, 75	9
204	The Use of Electrochemical Biosensors in Food Analysis. 2017 , 5, 183-195	47
203	Immunofluorescence Assay Using Monoclonal and Polyclonal Antibodies for Detection of Staphylococcal Enterotoxins A in Milk. 2019 , 13, 137-145	3
202	Detection of Colonized Pathogenic Bacteria from Food Handlers in Saudi Arabia. 2018 , 12, 1301-1306	3
201	Rapid detection of Salmonella in milk by a nuclear magnetic resonance biosensor based on the streptavidin-biotin system and O-carboxymethyl chitosan target gadolinium probe. 2021 , 104, 11486-11498	3
200	Multiplex-Touchdown PCR to Simultaneously Detect , , and , the Major Causes of Traveler's Diarrhea. 2016 , 54, 631-636	10
199	Comparison of Economically Favourable and Further Development Friendly DNA Isolation Methods from Microbial Cultures. 2020 , 10, 1-13	1
199 198		1
	from Microbial Cultures. 2020 , 10, 1-13 Loop-mediated isothermal amplification (LAMP) for rapid detection of L. monocytogenes in meat.	
198	from Microbial Cultures. 2020, 10, 1-13 Loop-mediated isothermal amplification (LAMP) for rapid detection of L. monocytogenes in meat. 2019, 13, 800-805 Comparison of Upgraded Methods for Detecting Pathogenic in Foods Using Centrifugation or	1
198 197	from Microbial Cultures. 2020, 10, 1-13 Loop-mediated isothermal amplification (LAMP) for rapid detection of L. monocytogenes in meat. 2019, 13, 800-805 Comparison of Upgraded Methods for Detecting Pathogenic in Foods Using Centrifugation or Filtration. 2017, 37, 799-803 Target-Mediated 5'-Exonuclease Digestion of DNA Aptamers with RecJ to Modulate Rolling Circle	3
198 197 196	From Microbial Cultures. 2020, 10, 1-13 Loop-mediated isothermal amplification (LAMP) for rapid detection of L. monocytogenes in meat. 2019, 13, 800-805 Comparison of Upgraded Methods for Detecting Pathogenic in Foods Using Centrifugation or Filtration. 2017, 37, 799-803 Target-Mediated 5'-Exonuclease Digestion of DNA Aptamers with RecJ to Modulate Rolling Circle Amplification for Biosensing. 2021, Alterations in the Transcriptional Landscape Allow Differential Desiccation Tolerance in Clinical	1 3 2
198 197 196	From Microbial Cultures. 2020, 10, 1-13 Loop-mediated isothermal amplification (LAMP) for rapid detection of L. monocytogenes in meat. 2019, 13, 800-805 Comparison of Upgraded Methods for Detecting Pathogenic in Foods Using Centrifugation or Filtration. 2017, 37, 799-803 Target-Mediated 5'-Exonuclease Digestion of DNA Aptamers with RecJ to Modulate Rolling Circle Amplification for Biosensing. 2021, Alterations in the Transcriptional Landscape Allow Differential Desiccation Tolerance in Clinical Cronobacter sakazakii. 2021, 87, e0083021 Electrochemical biosensors with Aptamer recognition layer for the diagnosis of pathogenic	1 3 2

191	CHAPTER 8:Colorimetric Biosensors for Bacterial Detection. 2016, 182-202	
190	Advantages of Virulotyping Pathogens Over Traditional Identification and Characterization Methods. 2017 , 3-40	
189	Molecular Tools To Study Preharvest Food Safety Challenges. 361-382	
188	IDENTIFICATION OF FOOD PATHOGENS AND DETERMINATION OF THEIR DISTRIBUTION LEVEL IN UKRAINIAN FOOD PRODUCTS OF ANIMAL AND PLANT ORIGIN BY PCR METHOD. 2019 , 13,	1
187	Development and on-site evaluation of an easy-to-perform and low-cost food pathogen diagnostic workflow for low-resource communities.	
186	High-Throughput Flow-Through Direct Immunoassays for Targeted Bacteria Detection. 2021 , 93, 14586-14592	!1
185	MetalBrganic frameworks (MOFs) based chemosensors/biosensors for analysis of food contaminants. 2021 , 118, 569-569	26
184	A Label-Free Optical Detection of Pathogens in Isopropanol as a First Step towards Real-Time Infection Prevention. 2020 , 11,	
183	Leaf Bleaching in Rice: A New Disease in Vietnam Caused by Methylobacterium indicum, Its Genomic Characterization and the Development of a Suitable Detection Technique. 2021 , 36,	
182	Recent developments towards portable point-of-care diagnostic devices for pathogen detection.	5
181	Diagnostic Tools for Food Safety. 2020 , 333-365	
180	Conventional and Novel Rapid Methods for Detection and Enumeration of Microorganisms. 2020 , 85-128	1
179	Nanosensors for Foods. 2020 , 327-375	2
178	Machine Learning Prediction of Foodborne Disease Pathogens: Algorithm Development and Validation Study (Preprint).	
177	A comparison of conventional rapid methods in diagnosis of superficial and cutaneous mycoses based on KOH, Chicago sky blue 6B and calcofluor white stains. 2018 , 10, 433-440	7
176	AS-LAMP: A New and Alternative Method for Genotyping. 2020 , 12, 2-8	6
175	Development of a rapid, one-step-visual method to detect based on IC-LAMP method. 2020 , 21, 20-25	
174	Development and Application of an Immunocapture PCR Diagnostic Assay Based on the Monoclonal Antibody for the Detection of. 2020 , 18, e2244	

173	Metal-organic framework-based sensors for the detection of toxins and foodborne pathogens. 2022 , 133, 108684	9
172	Loop-Mediated Isothermal Amplification (LAMP) Assay for Rapid Detection of viable but non-culturable O1. 2021 ,	O
171	Progress in the applications of surface plasmon resonance for food safety. 2021 , 95, 237-275	
170	Construction of a highly selective and sensitive carbohydrate-detecting biosensor utilizing Computational Identification of Non-disruptive Conjugation sites (CINC) for flexible and streamlined biosensor design 2021 , 200, 113899	Ο
169	Antimicrobial peptides: Promising alternatives over conventional capture ligands for biosensor-based detection of pathogenic bacteria 2021 , 55, 107901	3
168	Biosensors for simplistic detection of pathogenic bacteria: A review with special focus on field-effect transistors. 2022 , 141, 106404	1
167	Electrochemical Biosensors for Foodborne Pathogens Detection Based on Carbon Nanomaterials: Recent Advances and Challenges. 2022 , 15, 498	5
166	Comparison of Commercial Test Kits for Detection of Salmonella and E. coli O157: H7 in Alfalfa Spent Sprout Irrigation Water 2022 ,	
165	Paper-Based Electrodes Conjugated with Tungsten Disulfide Nanostructure and Aptamer for Impedimetric Detection of 2022 , 12,	5
164	Isothermal RNA Amplification for the Detection of Viable Pathogenic Bacteria to Estimate the Salmonella Virulence for Causing Enteritis 2022 ,	3
163	Basic Principles and Recent Advances in Magnetic Cell Separation. 2022 , 8, 11	3
162	Lab-on-a-chip miniaturized analytical devices. 2022 , 261-284	
161	Application of nanosensors in food inspection. 2022 , 705-735	
160	Recent advancements in microfluidic chip biosensor detection of foodborne pathogenic bacteria: a review 2022 , 414, 2883	4
159	Differentiating Live Versus Dead Gram-Positive and Gram-Negative Bacteria With and Without Oxidative Stress Using Buoyant Mass Measurements 2022 , 79, 74	
158	Vancomycin-Loaded Furriness Amino Magnetic Nanospheres for Rapid Detection of Gram-Positive Water Bacterial Contamination 2022 , 12,	Ο
157	Simultaneous detection of mixed foodborne pathogens by multi-molecular infrared spectroscopy identification system. 2022 , 136, 108861	O
156	Tapered microfiber MZI Biosensor for highly sensitive detection of Staphylococcus aureus. 2022 , 1-1	1

155	Engineered Cell Line Imaging Assay Differentiates Pathogenic from Non-Pathogenic Bacteria 2022 , 11,		
154	Colorimetric sensor based on peroxidase-like activity of chitosan coated on magnetic nanoparticles for rapid detection of the total bacterial count in raw milk. 1		O
153	Boosting the Electrochemical Performance of PI-5-CA/C-SWCNT Nanohybrid for Sensitive Detection of O157:H7 From the Real Sample 2022 , 10, 843859		O
152	Rapid, Visual, and Sequence-Specific Detection of in Egg Liquid with vis-NEAA, a CRISPR/Cas12 Empowered New Strategy 2022 ,		1
151	From Groundwater to Drinking Water © Current Approaches for Microbial Monitoring and Risk Assessment in Porous Aquifers. 2022 ,		
150	Silencing of Curlin Protein via M13 Phagemid-Mediated Synthetic sRNA Expression Reduces Virulence in the Avian Pathogenic E. coli (APEC) 2022 , 79, 105		
149	Nanotechnology in food and water security: on-site detection of agricultural pollutants through surface-enhanced Raman spectroscopy 2022 , 5, 1-28		O
148	Recovery of Pasteurization-Resistant from Seafoods Using a Modified, Two-Step Enrichment <i>Foods</i> , 2022 , 11,	4.9	O
147	Rapid and Reliable Detection of SARS-CoV-2 Using Direct RT-LAMP 2022 , 12,		1
146	Development of nanobody-horseradish peroxidase-based sandwich ELISA to detect Salmonella Enteritidis in milk and in vivo colonization in chicken 2022 , 20, 167		6
145	Neutral Red-carbon nanodots for selective fluorescent DNA sensing 2022, 1		О
144	Programming bacteria to sense environmental DNA for multiplexed pathogen detection.		O
143	Glass-integrated optofluidic sensor exploiting dielectrophoresis for label-free detection of bacterial viability. 2022 ,		
142	A Low-Cost, 3D-Printed Biosensor for Rapid Detection of 2022 , 22,		O
141	Recombinase polymerase amplification in the molecular diagnosis of microbiological targets and its applications 2022 , 1-20		O
140	Recent Advances and Applications of Rapid Microbial Assessment from a Food Safety Perspective 2022 , 22,		1
139	Sensitive and simultaneous detection of hygiene indicator bacteria using an enhanced CRISPR/Cas system in combination with a portable fluorescence detector. 2022 , 131871		3
138	Monitoring Pathogenic Viable O157:H7 in Food Matrices Based on the Detection of RNA Using Isothermal Amplification and a Paper-Based Platform 2021 ,		3

137	Metaheuristic Optimization to Improve Machine Learning in Raman Spectroscopic-based Detection of Foodborne Pathogens. 2021 ,		
136	Molecular Methods for Pathogenic Bacteria Detection and Recent Advances in Wastewater Analysis. 2021 , 13, 3551		1
135	Molecular Diagnostic Platforms for Specific Detection of Escherichia coli.		
134	Efficacy of Actigen prebiotic drug preparation usage for growing meat indicators of productivity. 2021 , 37-48		
133	Potential of Flow Cytometric Approaches for Rapid Microbial Detection and Characterization in the Food Industry-A Review <i>Foods</i> , 2021 , 10,	4.9	2
132	Bacteriophage-Based Biosensors: Detection of Bacteria and Beyond. 2022 , 439-473		Ο
131	An Efficient Tetraplex Surveillance Tool for Salmonid Pathogens <i>Frontiers in Microbiology</i> , 2022 , 13, 885585	5.7	1
130	Omics-based monitoring of microbial dynamics across the food chain for the improvement of food safety and quality. 2022 , 157, 111242		O
129	Data_Sheet_1.pdf. 2019 ,		
128	Data_Sheet_1.PDF. 2018 ,		
127	Table_1.DOCX. 2018 ,		
126	Table_1.pdf. 2020 ,		
125	Table_2.xls. 2020 ,		
124	Table_3.xlsx. 2020 ,		
123	Table_4.xlsx. 2020 ,		
122	Table_5.pdf. 2020 ,		
121	Table_6.pdf. 2020 ,		
120	Table_7.pdf. 2020 ,		

(2022-2020)

119	Table_8.pdf. 2020 ,
118	Table_9.pdf. 2020 ,
117	Data_Sheet_1.PDF. 2020 ,
116	lmage_1.tif. 2018 ,
115	lmage_2.tif. 2018 ,
114	lmage_3.TIF. 2018 ,
113	Table_1.DOCX. 2018 ,
112	Data_Sheet_1.docx. 2019 ,
111	Table_1.docx. 2019 ,
110	Data_Sheet_1.docx. 2020 ,
109	Image_1.jpg. 2020 ,
108	lmage_2.pdf. 2020 ,
107	Data_Sheet_1.docx. 2020 ,
106	Response of Foodborne Pathogens to Cold Stress. 2022 , 61-94
105	Milk and Milk Product Safety and Quality Assurance for Achieving Better Public Health Outcomes. 2022 , 217-259
104	Fast Tracking of Adulterants and Bacterial Contamination in Food via Raman and Infrared Spectroscopies: Paving the Way for a Healthy and Safe World.
103	Detection of Unamplified E. coli O157 DNA Extracted from Large Food Samples Using a Gold Nanoparticle Colorimetric Biosensor. 2022 , 12, 274
102	Applications of Nanozymology in the Detection and Identification of Viral, Bacterial and Fungal Pathogens 2022 , 23,

101	On-chip-based electrochemical biosensor for the sensitive and label-free detection of Cryptosporidium 2022 , 12, 6957		2
100	Nanomaterials Based Monitoring of Food- and Water-Borne Pathogens. 2022 , 2022, 1-13		
99	Application of Nanopore Sequencing in the Detection of Foodborne Microorganisms 2022, 12,		1
98	Internal heating method of loop-mediated isothermal amplification for detection of HPV-6 DNA 2022 , 189, 212		
97	A Comprehensive Analysis of ATP Tests: Practical Use and Recent Progress in the Total Adenylate Test for the Effective Monitoring of Hygiene 2022 ,		1
96	Listeria monocytogenes in foods B rom culture identification to whole-genome characteristics.		O
95	Molecularly imprinted polymer (MIP) based core-shell microspheres for bacteria isolation. 2022 , 251, 124917		О
94	Generation and application of a novel high-throughput detection based on RPA-CRISPR technique to sensitively monitor pathogenic microorganisms in the environment. 2022 , 838, 156048		O
93	Occurrence of Histamine in Commercial Cat Foods under Different Storage Conditions. 2022 , 9, 270		О
92	An Overview of Healthcare Associated Infections and Their Detection Methods Caused by Pathogen Bacteria in Romania and Europe. 2022 , 11, 3204		3
91	Enzyme-free catalytic hairpin assembly reaction-mediated micro-orifice resistance assay for the ultrasensitive and low-cost detection of Listeria monocytogenes. 2022 , 114490		1
90	Hyperspectral imaging and machine learning in food microbiology: Developments and challenges in detection of bacterial, fungal, and viral contaminants.		2
89	The role of Nucleic Acid Mimics (NAMs) on FISH-based techniques and applications for microbial detection. 2022 , 127086		0
88	Recent progress on biosensors for rapid detection of bacterial pathogens in water, food and environment. 2022 , 107357		3
87	Novel Approaches to Environmental Monitoring and Control of Listeria monocytogenes in Food Production Facilities. <i>Foods</i> , 2022 , 11, 1760	4.9	1
86	Improvement of Mueller-Kauffman Tetrathionate-Novobiocin (MKTTn) enrichment medium for the detection of Salmonella enterica by the addition of ex situ-generated tetrathionate. 2022 , 106524		
85	Sensitive and high-accuracy detection of Salmonella based on CRISPR /Cas12a combined with recombinase polymerase amplification.		
84	Smart Wearable Fluorescence Sensing of Bacterial Pathogens and Toxic Contaminants by Eu3+-Induced Sodium Alginate/Ag Nanoparticle Aggregates. 2022 , 5, 8393-8403		2

83	Rapid and simple preparation of an MXene/polypyrrole-based bacteria imprinted sensor for ultrasensitive Salmonella detection. 2022 , 918, 116513		1
82	SELEX against whole-cell bacteria resulted in lipopolysaccharide binding aptamers. 2022, 354, 10-20		О
81	Emerging biosensor technology and its potential application in food. 2022, 127-163		
80	Simultaneous Detection of Five Foodborne Pathogens Using a Mini Automatic Nucleic Acid Extractor Combined with Recombinase Polymerase Amplification and Lateral Flow Immunoassay. 2022 , 10, 1352		O
79	Current Scenario of Pathogen Detection Techniques in Agro-Food Sector. 2022 , 12, 489		О
78	Diagnostic techniques for rapid detection of Vibrio species. 2022 , 738628		O
77	Emerging Bioanalytical Devices and Platforms for Rapid Detection of Pathogens in Environmental Samples. <i>Micromachines</i> , 2022 , 13, 1083	3.3	O
76	Ultra-Sensitive and Rapid Detection of Pathogenic Yersinia enterocolitica Based on the CRISPR/Cas12a Nucleic Acid Identification Platform. <i>Foods</i> , 2022 , 11, 2160	4.9	O
75	Giant Magnetoresistance Biosensors for Food Safety Applications. 2022 , 22, 5663		
74	Detection of Foodborne Pathogens in Acute Gastroenteritis Patient Stool Samples Using the BioFire FilmArray Gastrointestinal PCR Panel in the Republic of Trinidad and Tobago, West Indies. 2022 , 10, 1601		O
73	Occurrence and Antimicrobial Resistance Pattern of E. coli O157:H7 Isolated from Foods of Bovine Origin in Dessie and Kombolcha Towns, Ethiopia.		
72	A review on applications of gold nanoparticles-based biosensor for pathogen detection. 2022 , 13, 0330	02	O
71	Development of a lateral flow dipstick test for the detection of 4 strains of & lt;i>Salmonella spp. in animal products and animal production environmental samples based on loop-mediated isothermal amplification.		O
70	A comprehensive review of COVID-19 detection techniques: From laboratory systems to wearable devices. 2022 , 149, 106070		1
69	Microbiological quality of supply water in mega and metro cities of India and their management: An overview. 2022 , 567-590		О
68	One-step immunoassay for the detection of food-poisoning related bacteria using a switching peptide.		O
67	Highly sensitive and selective antibody microarrays based on a Cy5-antibody complexes coupling ES-biochip for E. coli and Salmonella detection. 2022 , 12, 24760-24768		1
66	Techniques for Detection of Microbial Contamination. 2022 , 1-46		О

65	Recent advances in antibiotic resistance diagnosis using SERS: focus on the B ig 51thallenges.	1
64	Bacterial concentration and detection using an ultrasonic nanosieve within a microfluidic device. 2023 , 374, 132769	O
63	Detection of Campylobacter jejuni Based on a Real-Time Fluorescence Loop-Mediated Isothermal Amplification Method. 2022 , 2022, 1-10	0
62	Recent advances of lateral flow immunoassay components as B oint of need I 1-26	1
61	A rapid colorimetric lateral flow test strip for detection of live Salmonella Enteritidis using whole phage as a specific binder. 13,	0
60	A Paradigm of Internet-of-Nano-Things Inspired Intelligent Plant Pathogen-Diagnostic Biosensors. 2022 , 1, 031401	2
59	Rapid determination of Proteus mirabilis susceptibility to antibiotics using infrared spectroscopy in tandem with random forest.	0
58	Culture-Independent Raman Spectroscopic Identification of Bacterial Pathogens from Clinical Samples Using Deep Transfer Learning. 2022 , 94, 14745-14754	1
57	Rapid Quantitative Detection of Live Escherichia coli Based on Chronoamperometry. 2022 , 12, 845	0
56	Electrochemical Biosensors for Pathogen Detection: An Updated Review. 2022 , 12, 927	2
55	Assessment of Foodborne Bacterial Pathogens in Buffalo Raw Milk Using Polymerase Chain Reaction Based Assay.	0
54	Electrochemical biosensors for analysis of DNA point mutations in cancer research.	O
53	Portable sensor based on magnetic separation and enzyme-mediated immune nanomaterials for point-of-care testing of Listeria monocytogenes in food. 2022 , 340576	0
52	DNA concentration by solid phase reversible immobilization improves its yield and purity, and detection time of E. coli O157:H7 in foods by high resolution melt curve qPCR. 2023 , 145, 109456	O
51	Nanotechnology-oriented sensors for the quick recognition of foodborne microbes and pathogens. 2023 , 93-112	0
50	Nanosensors for the detections of foodborne pathogens and toxins. 2023 , 183-204	O
49	Lateral flow biosensor based on LAMP-CRISPR/Cas12a for sensitive and visualized detection of Salmonella spp 2023 , 145, 109494	0
48	Predicting the Growth Behavior of Foodborne Pathogenic Bacteria by Real-time Polymerase Chain Reaction Method. 2022 , 56, 321-327	0

(2023-2023)

47	Hybridization chain reaction-assisted enzyme cascade genosensor for the detection of Listeria monocytogenes. 2023 , 254, 124193	O
46	Pathogenic microbes in wastewater: Identification and characterization. 2022,	O
45	Development and Evaluation of a Next-Generation Sequencing Panel for the Multiple Detection and Identification of Pathogens in Fermented Foods. 2022 ,	0
44	Cyclodextrin Inclusion Complexes and Their Application in Food Safety Analysis: Recent Developments and Future Prospects. 2022 , 11, 3871	5
43	A glass matrices-assisted quantum dots-based biosensor for selective capturing and detection of Escherichia coli.	O
42	Rapid identification of Staphylococcus aureus based on a fluorescence imaging/detection platform that combines loop mediated isothermal amplification assay and the smartphone-based system. 2022 , 12,	O
41	Emerging Technological Advances in Improving the Safety of Muscle Foods: Framing in the Context of the Food Revolution 4.0. 1-42	O
40	Multiplex PCR Assay for Clade Typing of Salmonella enterica Serovar Enteritidis. 2022 , 10,	O
39	Establishment of indirect ELISA method for Salmonella antibody detection from ducks based on PagN protein. 2022 , 18,	0
38	Aptamer-Based Electrochemical Biosensors for the Detection of Salmonella: A Scoping Review. 2022 , 12, 3186	O
37	Design and 3D printing of an electrochemical sensor for Listeria monocytogenes detection based on loop mediated isothermal amplification. 2022 , e12637	1
36	Quality and Safety in the Food Industry. 1-7	O
35	Trace Detection of E. coli O157:H7 Cells by an Au Nanoparticle-Based SERS Aptasensor.	0
34	A Renewable Biosensor Based on LNA-Aptamer Hybridization for the Detection of Salmonella enteritidis in Penaeus vannamei. 2023 , 28, 450	O
33	Molecular Targets for Foodborne Pathogenic Bacteria Detection. 2023, 12, 104	0
32	Microbiological quality of irrigation water for cultivation of fruits and vegetables: An overview of available guidelines, water testing strategies and some factors that influence compliance 2023 , 220, 114771	1
31	Detection of Salmonella enterica subsp. enterica via Quenching of Unincorporated Amplification Signal Reporters in Loop-Mediated Isothermal Amplification. 2022 , 2022, 1-14	0
30	Development of a TaqMan-Probe-Based Multiplex Real-Time PCR for the Simultaneous Detection of Porcine Circovirus 2, 3, and 4 in East China from 2020 to 2022. 2023 , 10, 29	1

29	A universal approach for sensitive and rapid detection of different pathogenic bacteria based on aptasensor-assisted SERS technique.	O
28	Raman spectroscopy combined with multivariate analysis in quality analysis of food and pharmaceutical materials. 2023 , 97-118	O
27	Metal Microwires Functionalized with Cell-Imprinted Polymer for Capturing Bacteria in Water.	О
26	Safety of Food and Beverages: Leafy Greens. 2023,	О
25	Detection of Microbiological Hazards. 2023 , 835-850	О
24	A Lab-on-a-Tube Biosensor Combining Recombinase-Aided Amplification and CRISPR-Cas12a with Rotated Magnetic Extraction for Salmonella Detection. 2023 , 14, 830	O
23	Superior possibilities and upcoming horizons for nanoscience in COVID-19: noteworthy approach for effective diagnostics and management of SARS-CoV-2 outbreak.	О
22	Carbohydrate-coated magnetic and gold nanoparticles for point-of-use food contamination testing. 2023 , 13, 100322	O
21	Advances in microbial analysis: Based on volatile organic compounds of microorganisms in food. 2023 , 418, 135950	0
20	Automated segmentation of foodborne bacteria from chicken rinse with hyperspectral microscope imaging and deep learning methods. 2023 , 208, 107802	O
19	Conventional and advanced detection techniques of foodborne pathogens: A comprehensive review. 2023 , e15482	0
18	Graphene-Based Field-Effect Transistors in Biosensing and Neural Interfacing Applications: Recent Advances and Prospects. 2023 , 95, 2590-2622	O
17	Progress in Fluorescence Biosensing and Food Safety towards Point-of-Detection (PoD) System. 2023 , 13, 249	0
16	Integrating filter paper extraction, isothermal amplification, and lateral flow dipstick methods to detect Streptococcus agalactiae in milk within 15 min. 10,	O
15	Programming synthetic DNA molecules for building and breaking heterostructures between TiO2 nanomaterials for photoelectrochemical bacterial detection. 2023 , 49, 101783	O
14	Disintegration and Machine-Learning-Assisted Identification of Bacteria on Antimicrobial and Plasmonic AgauxO Nanostructures. 2023, 15, 11563-11574	O
13	Development of a one-step sample to answer multiplex Hyper-branched Rolling Cycle Amplification (pR@FRET-MB@mHSRCA) with tunable hybrid signaling (pR@FRET-MB) for simultaneous pathogen detection in food.	О
12	Bacteriophage-based nano-biosensors for the fast impedimetric determination of pathogens in food samples. 2023 , 13,	O

CITATION REPORT

11	Detection of Bacillus group spores in an aqueous environment using an aptamer based digital photocorrosion biosensor. 2023 ,	О
10	Rapid Concentration and Detection of Vibrio cholerae Using Magnetic Nanoparticles. 2023 , 45, 82-89	Ο
9	Recent advances of Raman spectroscopy for the analysis of bacteria.	0
8	A Real-Time PCR Approach for Rapid Detection of Viable Salmonella Enteritidis in Shell Eggs. 2023 , 11, 844	O
7	An Overview of the Public Health Challenges in Diagnosing and Controlling Human Foodborne Pathogens. 2023 , 11, 725	0
6	Editorial: Advances in detection and control of post-harvest pathogens. 14,	O
5	Dual-Gene Isothermal Amplification Coupled with Lateral Flow Strip for On-Site Accurate Detection of E. coli O157:H7 in Food Samples. 2023 , 95, 6053-6060	0
4	Optimized Bioorthogonal Non-canonical Amino Acid Tagging to Identify Serotype-Specific Biomarkers in Verotoxigenic Escherichia coli. 2023 , 9, 856-863	O
3	Development of Shortened Enrichment Methods for Detection of Salmonella Typhimurium Spiked in Milk.	0
2	Rapid Escherichia coli Cloned DNA Detection in Serum Using an Electrical Double Layer-Gated Field-Effect Transistor-Based DNA Sensor.	O
1	Salmonella typhimurium detection and ablation using OmpD specific aptamer with non-magnetic and magnetic graphene oxide. 2023 , 234, 115354	0