

# Chao Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,101  
citations

430874

18  
h-index

434195

31  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential Strand-Displacement Amplification for Detection of MicroRNAs. <i>Analytical Chemistry</i> , 2014, 86, 336-339.	6.5	160
2	Cocaine detection via rolling circle amplification of short DNA strand separated by magnetic beads. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3309-3312.	10.1	99
3	Innate Reverse Transcriptase Activity of DNA Polymerase for Isothermal RNA Direct Detection. <i>Journal of the American Chemical Society</i> , 2015, 137, 13804-13806.	13.7	81
4	Triggered isothermal PCR by denaturation bubble-mediated strand exchange amplification. <i>Chemical Communications</i> , 2016, 52, 11551-11554.	4.1	68
5	A simple colorimetric DNA detection by target-induced hybridization chain reaction for isothermal signal amplification. <i>Analytical Biochemistry</i> , 2014, 457, 19-23.	2.4	62
6	A simple isothermal nucleic acid amplification method for the effective on-site identification for adulteration of pork source in mutton. <i>Food Control</i> , 2019, 98, 297-302.	5.5	41
7	Rapid detection of foodborne pathogen <i>Listeria monocytogenes</i> by strand exchange amplification. <i>Analytical Biochemistry</i> , 2018, 545, 38-42.	2.4	39
8	A novel method to control carryover contamination in isothermal nucleic acid amplification. <i>Chemical Communications</i> , 2017, 53, 10696-10699.	4.1	37
9	Three-dimensional DNA nanostructures for colorimetric assay of nucleic acids. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2853-2857.	5.8	33
10	Ultrasensitive detection of microRNAs based on hairpin fluorescence probe assisted isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2014, 58, 57-60.	10.1	26
11	Integrated silica membrane-based nucleic acid purification, amplification, and visualization platform for low-cost, rapid detection of foodborne pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6927-6938.	3.7	25
12	Entropy-driven molecular switch and signal amplification for homogeneous SNPs detection. <i>Chemical Communications</i> , 2011, 47, 2895.	4.1	24
13	Single primer-triggered isothermal amplification for double-stranded DNA detection. <i>Chemical Communications</i> , 2015, 51, 553-556.	4.1	24
14	Rapid and Simple Detection of Viable Foodborne Pathogen <i>Staphylococcus aureus</i> . <i>Frontiers in Chemistry</i> , 2019, 7, 124.	3.6	23
15	Lab in a Pasteur pipette: low-cost, rapid and visual detection of <i>Bacillus cereus</i> using denaturation bubble-mediated strand exchange amplification. <i>Analytica Chimica Acta</i> , 2019, 1080, 162-169.	5.4	22
16	Aptameric Molecular Switch for Cascade Signal Amplification. <i>Clinical Chemistry</i> , 2012, 58, 384-390.	3.2	21
17	Nicking endonuclease-mediated isothermal exponential amplification for double-stranded DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 221-225.	7.8	21
18	Accelerated isothermal nucleic acid amplification in betaine-free reaction. <i>Analytical Biochemistry</i> , 2017, 530, 1-4.	2.4	20

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19	Highly sensitive visual detection of nucleic acid based on a universal strand exchange amplification coupled with lateral flow assay strip. <i>Talanta</i> , 2020, 216, 120978.	5.5	19
20	Rapid diagnosis of <i>Mycoplasma pneumonia</i> infection by denaturation bubble-mediated strand exchange amplification: comparison with LAMP and real-time PCR. <i>Scientific Reports</i> , 2019, 9, 896.	3.3	16
21	Ultrasensitive electrochemical DNA biosensor based on a tetrahedral structure and proximity-dependent surface hybridization. <i>Analyst</i> , The, 2020, 145, 150-156.	3.5	16
22	Accurate, rapid and low-cost diagnosis of <i>Mycoplasma pneumoniae</i> via fast narrow-thermal-cycling denaturation bubble-mediated strand exchange amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8391-8399.	3.7	16
23	Primer design strategy for denaturation bubble-mediated strand exchange amplification. <i>Analytical Biochemistry</i> , 2020, 593, 113593.	2.4	16
24	Comparative Expression Profiling Reveals Genes Involved in Megasporogenesis. <i>Plant Physiology</i> , 2020, 182, 2006-2024.	4.8	14
25	Rapid DNA detection and one-step RNA detection catalyzed by Bst DNA polymerase and narrow-thermal-cycling. <i>Analyst</i> , The, 2020, 145, 5118-5122.	3.5	12
26	Ultrafast bacterial cell lysis using a handheld corona treater and loop-mediated isothermal amplification for rapid detection of foodborne pathogens. <i>Food Control</i> , 2021, 128, 108178.	5.5	12
27	A new isothermal nucleic acid detection strategy mediated by a double-nicked beacon. <i>Chemical Communications</i> , 2014, 50, 3799.	4.1	11
28	Nucleic acid extraction without electrical equipment via magnetic nanoparticles in Pasteur pipettes for pathogen detection. <i>Analytical Biochemistry</i> , 2021, 635, 114445.	2.4	11
29	Optimum Water and Fertilizer Management for Better Growth and Resource Use Efficiency of Rapeseed in Rainy and Drought Seasons. <i>Sustainability</i> , 2020, 12, 703.	3.2	10
30	The isothermal amplification detection of double-stranded DNA based on a double-stranded fluorescence probe. <i>Biosensors and Bioelectronics</i> , 2016, 80, 54-58.	10.1	9
31	An ultrafast one-step assay for the visual detection of RNA virus. <i>Chemical Communications</i> , 2018, 54, 3118-3121.	4.1	9
32	An ultrafast ratiometric electrochemical biosensor based on potential-assisted hybridization for nucleic acids detection. <i>Analytica Chimica Acta</i> , 2022, 1211, 339915.	5.4	9
33	A fully integrated hand-powered centrifugal microfluidic platform for ultra-simple and non-instrumental nucleic acid detection. <i>Talanta</i> , 2020, 219, 121221.	5.5	8
34	On-site Method for Beef Detection Based on Strand Exchange Amplification. <i>Analytical Sciences</i> , 2019, 35, 337-341.	1.6	7
35	Rapid Detection of the <i>Bursaphelenchus Xylophilus</i> by Denaturation Bubble-mediated Strand Exchange Amplification. <i>Analytical Sciences</i> , 2019, 35, 449-453.	1.6	7
36	Development of a direct and visual isothermal method for meat adulteration detection in low resource settings. <i>Food Chemistry</i> , 2020, 319, 126542.	8.2	7

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37	DNA Self-assembly Catalyzed by Artificial Agents. <i>Scientific Reports</i> , 2017, 7, 6818.	3.3	6
38	Accelerated denaturation bubble-mediated strand exchange amplification for rapid and accurate detection of canine parvovirus. <i>Analytical Methods</i> , 2020, 12, 5514-5522.	2.7	6
39	Rapid and enzyme-free nucleic acid detection based on exponential hairpin assembly in complex biological fluids. <i>Analyst</i> , The, 2016, 141, 2883-2886.	3.5	5
40	Combinatorial Library Based on Restriction Enzyme-mediated Modular Assembly. <i>ACS Combinatorial Science</i> , 2017, 19, 351-355.	3.8	5
41	An ultrasensitive electrochemical DNA sensing strategy free from pre-immobilization via G-quadruplex based homogenous proximity hybridization. <i>Talanta</i> , 2020, 210, 120628.	5.5	5
42	A simple methodology for RNA isolation from bacteria by integration of formamide extraction and chitosan-modified silica purification. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6469-6477.	3.7	5
43	Single-tube analysis for ultra-fast and visual detection of Salmonella. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2333-2341.	3.7	5
44	An all-in-one nucleic acid enrichment and isothermal amplification platform for rapid detection of <i>Listeria monocytogenes</i> . <i>Food Control</i> , 2022, 139, 109096.	5.5	5
45	Isothermal amplification detection of nucleic acids by a double-nicked beacon. <i>Analytical Biochemistry</i> , 2016, 496, 9-13.	2.4	4
46	Ratiometric Electrochemical Biosensor for the Sensitive Determination of DNA by a Hairpin DNA Probe. <i>Analytical Letters</i> , 2021, 54, 2473-2483.	1.8	4
47	Establishment of a TaqMan-MGB probe multiplex real-time PCR system for one-step levofloxacin and clarithromycin resistant <i>Helicobacter pylori</i> detection. <i>Journal of Microbiological Methods</i> , 2022, 192, 106393.	1.6	3
48	An ultra-fast, one-step RNA amplification method for the detection of <i>Salmonella</i> in seafood. <i>Analytical Methods</i> , 2022, 14, 1111-1116.	2.7	3
49	Electrical potential-assisted DNA-RNA hybridization for rapid microRNA extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3529-3539.	3.7	3
50	Detection of Epstein-Barr virus by a rapid and simple accelerated denaturation bubble-mediated strand exchange amplification method. <i>Analytical Methods</i> , 2021, 13, 2519-2526.	2.7	2
51	Detection of canine parvovirus and feline panleukopenia virus in fecal samples by strand exchange amplification. <i>Journal of Veterinary Diagnostic Investigation</i> , 2020, 32, 880-886.	1.1	2
52	A novel isothermal detection method for the universal element of genetically modified soybean. <i>Biologia (Poland)</i> , 2020, 75, 2395-2402.	1.5	1
53	A visual on-site method for African swine fever virus detection in raw pig tissues. <i>Journal of Food Safety</i> , 2020, 40, e12848.	2.3	0
54	Performance Analysis of Novel Nucleic Acid Detection Kit for <i>Mycoplasma pneumoniae</i> . <i>Clinical Pediatrics</i> , 2022, 61, 330-334.	0.8	0

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55	Ultrafast Electrochemical DNA Biosensor Based on Electrical Potential-Assisted Hybridization Using Differential Pulse Voltammetry (DPV). <i>Analytical Letters</i> , 0, , 1-11.	1.8	0
56	Accelerated cycling PCR: A novel tool for rapid, sensitive and specific detection of single-nucleotide mutation within 30 min. <i>Journal of Microbiological Methods</i> , 2022, , 106527.	1.6	0
57	Multiplex Accelerated PCR System for One-Step <i>Helicobacter pylori</i> cagA Genotypes Detection: A Guide for Clinical Testing. <i>Current Microbiology</i> , 2022, 79, .	2.2	0