

Zhengping Li

List of Publications by Year in descending order

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97
papers

3,817
citations

136740

32
h-index

128067

60
g-index

100
all docs

100
docs citations

100
times ranked

3375
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive Detection of microRNAs by Exponential Isothermal Amplification. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5498-5501.	7.2	452
2	Highly Sensitive Determination of microRNA Using Target-Primed and Branched Rolling-Circle Amplification. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3268-3272.	7.2	385
3	Graphene Surface-Anchored Fluorescence Sensor for Sensitive Detection of MicroRNA Coupled with Enzyme-Free Signal Amplification of Hybridization Chain Reaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6450-6453.	4.0	202
4	One-step ultrasensitive detection of microRNAs with loop-mediated isothermal amplification (LAMP). <i>Chemical Communications</i> , 2011, 47, 2595-2597.	2.2	197
5	Recent advances in microRNA detection. <i>Analyst</i> , The, 2018, 143, 1758-1774.	1.7	142
6	A Sensitive and Homogeneous SNP Detection Using Cationic Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2007, 129, 4154-4155.	6.6	134
7	CRISPR/Cas12a-Assisted Ligation-Initiated Loop-Mediated Isothermal Amplification (CAL-LAMP) for Highly Specific Detection of microRNAs. <i>Analytical Chemistry</i> , 2021, 93, 7942-7948.	3.2	99
8	Rolling circle extension-actuated loop-mediated isothermal amplification (RCA-LAMP) for ultrasensitive detection of microRNAs. <i>Biosensors and Bioelectronics</i> , 2019, 128, 17-22.	5.3	98
9	Precise Quantitation of MicroRNA in a Single Cell with Droplet Digital PCR Based on Ligation Reaction. <i>Analytical Chemistry</i> , 2016, 88, 11384-11389.	3.2	90
10	Highly Sensitive and Specific Multiplexed MicroRNA Quantification Using Size-Coded Ligation Chain Reaction. <i>Analytical Chemistry</i> , 2014, 86, 1076-1082.	3.2	81
11	Lab on a single microbead: an ultrasensitive detection strategy enabling microRNA analysis at the single-molecule level. <i>Chemical Science</i> , 2015, 6, 6213-6218.	3.7	66
12	Cationic Oligo(thiophene ethynylene) with Broad-Spectrum and High Antibacterial Efficiency under White Light and Specific Biocidal Activity against <i>S. aureus</i> in Dark. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1019-1024.	4.0	66
13	One-step detection of microRNA with high sensitivity and specificity via target-triggered loop-mediated isothermal amplification (TT-LAMP). <i>Chemical Communications</i> , 2017, 53, 11040-11043.	2.2	66
14	Simple and sensitive detection of microRNAs with ligase chain reaction. <i>Chemical Communications</i> , 2010, 46, 2432.	2.2	65
15	A novel restriction endonuclease Glal for rapid and highly sensitive detection of DNA methylation coupled with isothermal exponential amplification reaction. <i>Chemical Science</i> , 2018, 9, 1344-1351.	3.7	65
16	Ultrasensitive quantification of mature microRNAs by real-time PCR based on ligation of a ribonucleotide-modified DNA probe. <i>Chemical Communications</i> , 2011, 47, 9465.	2.2	64
17	Which is the best combination of TACE and Sorafenib for advanced hepatocellular carcinoma treatment? A systematic review and network meta-analysis. <i>Pharmacological Research</i> , 2018, 135, 89-101.	3.1	62
18	Homogeneous and Sensitive Detection of microRNA with Ligase Chain Reaction and Lambda Exonuclease-Assisted Cationic Conjugated Polymer Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6181-6185.	4.0	61

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19	Identification of a selective DNA ligase for accurate recognition and ultrasensitive quantification of 6-methyladenosine in RNA at one-nucleotide resolution. <i>Chemical Science</i> , 2018, 9, 3354-3359.	3.7	59
20	Ultrasensitive detection of telomerase activity in a single cell using stem-loop primer-mediated exponential amplification (SPEA) with near zero nonspecific signal. <i>Chemical Science</i> , 2016, 7, 4945-4950.	3.7	56
21	Highly sensitive detection of CpG methylation in genomic DNA by AuNP-based colorimetric assay with ligase chain reaction. <i>Chemical Communications</i> , 2015, 51, 3371-3374.	2.2	54
22	A cytometric bead assay for sensitive DNA detection based on enzyme-free signal amplification of hybridization chain reaction. <i>Biosensors and Bioelectronics</i> , 2013, 49, 380-386.	5.3	53
23	Fluorescently Cationic Conjugated Polymer as an Indicator of Ligase Chain Reaction for Sensitive and Homogeneous Detection of Single Nucleotide Polymorphism. <i>Analytical Chemistry</i> , 2012, 84, 3739-3744.	3.2	49
24	Determination of nucleic acids in acidic medium by enhanced light scattering of large particles. <i>Talanta</i> , 2000, 51, 63-70.	2.9	45
25	Rare Earth Ion Mediated Fluorescence Accumulation on a Single Microbead: An Ultrasensitive Strategy for the Detection of Protein Kinase Activity at the Single Cell Level. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15186-15190.	7.2	43
26	Surface modification of hydrophobic NaYF ₄ :Yb,Er upconversion nanophosphors and their applications for immunoassay. <i>Science China Chemistry</i> , 2011, 54, 1292-1297.	4.2	39
27	Phosphorylation-induced hybridization chain reaction on beads: an ultrasensitive flow cytometric assay for the detection of T4 polynucleotide kinase activity. <i>Chemical Communications</i> , 2015, 51, 5832-5835.	2.2	38
28	One-pot synthesis of water-soluble and carboxyl-functionalized $\text{NaYF}_4\text{:Yb,Er(Tm)}$ upconversion nanocrystals and their application for bioimaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 12186.	6.7	36
29	Flow Cytometry-Assisted Mix-and-Read Assay for Ultrasensitive Detection of Protein Kinase Activity by use of Zr ⁴⁺ -Functionalized Mesoporous SiO ₂ Microspheres. <i>Analytical Chemistry</i> , 2013, 85, 10956-10961.	3.2	35
30	An ultrasensitive flow cytometric immunoassay based on bead surface-initiated template-free DNA extension. <i>Chemical Science</i> , 2018, 9, 6605-6613.	3.7	34
31	Multiplex ligation-dependent probe amplification (MLPA) for ultrasensitive multiplexed microRNA detection using ribonucleotide-modified DNA probes. <i>Chemical Communications</i> , 2013, 49, 10013.	2.2	32
32	A three-way junction structure-based isothermal exponential amplification strategy for sensitive detection of 3'-terminal 2'-O-methylated plant microRNA. <i>Chemical Communications</i> , 2017, 53, 1124-1127.	2.2	32
33	Real-time fluorescence ligase chain reaction for sensitive detection of single nucleotide polymorphism based on fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2015, 74, 705-710.	5.3	31
34	Real-time fluorescence detection of Hg ²⁺ ions with high sensitivity by exponentially isothermal oligonucleotide amplification. <i>RSC Advances</i> , 2014, 4, 9439.	1.7	30
35	Detection of T4 polynucleotide kinase activity based on cationic conjugated polymer-mediated fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2015, 66, 316-320.	5.3	30
36	Highly sensitive and multiplexed quantification of mRNA splice variants by the direct ligation of DNA probes at the exon junction and universal PCR amplification. <i>Chemical Science</i> , 2017, 8, 3635-3640.	3.7	29

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37	Highly sensitive and multiplexed analysis of CpG methylation at single-base resolution with ligation-based exponential amplification. <i>Chemical Science</i> , 2015, 6, 1866-1872.	3.7	26
38	Capillarity self-driven DNA hydrogel sensor for visual quantification of microRNA. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128036.	4.0	26
39	An Enzyme-Free MicroRNA Assay Based On Fluorescence Counting of Click Chemical Ligation-Illuminated Magnetic Nanoparticles with Total Internal Reflection Fluorescence Microscopy. <i>ACS Sensors</i> , 2018, 3, 2667-2674.	4.0	25
40	Click Chemistry-Actuated Digital DNA Walker Confined on a Single Particle toward Absolute MicroRNA Quantification. <i>Analytical Chemistry</i> , 2021, 93, 1620-1626.	3.2	25
41	An enzyme-free signal amplification strategy for sensitive detection of microRNA via catalyzed hairpin assembly. <i>Analytical Methods</i> , 2014, 6, 9477-9482.	1.3	24
42	A versatile size-coded flow cytometric bead assay for simultaneous detection of multiple microRNAs coupled with a two-step cascading signal amplification. <i>Chemical Communications</i> , 2017, 53, 2926-2929.	2.2	24
43	Chemiluminescent detection of DNA hybridization and single-nucleotide polymorphisms on a solid surface using target-primed rolling circle amplification. <i>Analyst</i> , 2008, 133, 1164.	1.7	21
44	Click Chemical Ligation-Initiated On-Bead DNA Polymerization for the Sensitive Flow Cytometric Detection of 3'-Terminal 2'-O-Methylated Plant MicroRNA. <i>Analytical Chemistry</i> , 2018, 90, 5390-5397.	3.2	20
45	Plasmon-Enhanced Surface-Enhanced Raman Scattering Mapping Concentrated on a Single Bead for Ultrasensitive and Multiplexed Immunoassay. <i>Analytical Chemistry</i> , 2020, 92, 12387-12393.	3.2	19
46	Enzymatically Controlled Nanoflares for Specific Molecular Recognition and Biosensing. <i>Analytical Chemistry</i> , 2022, 94, 8883-8889.	3.2	19
47	An enzyme-free flow cytometric bead assay for the sensitive detection of microRNAs based on click nucleic acid ligation-mediated signal amplification. <i>Analyst</i> , 2017, 142, 2967-2973.	1.7	18
48	A Clamp-Based One-Step Droplet Digital Reverse Transcription PCR (ddRT-PCR) for Precise Quantitation of Messenger RNA Mutation in Single Cells. <i>ACS Sensors</i> , 2018, 3, 1795-1801.	4.0	18
49	Digital quantitative analysis of microRNA in single cell based on ligation-dependent polymerase colony (Polony). <i>Biosensors and Bioelectronics</i> , 2017, 95, 146-151.	5.3	17
50	Ultrasensitive detection of circular RNA by accurate recognition of the specific junction site using stem-loop primer induced double exponential amplification. <i>Talanta</i> , 2020, 217, 121021.	2.9	15
51	Visual Detection of Fusion Genes by Ligation-Triggered Isothermal Exponential Amplification: A Point-of-Care Testing Method for Highly Specific and Sensitive Quantitation of Fusion Genes with a Smartphone. <i>Analytical Chemistry</i> , 2019, 91, 12428-12434.	3.2	14
52	Direct recognition and sensitive detection of circular RNA with ligation-based PCR. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3269-3273.	1.5	14
53	Highly sensitive detection of protein kinase activity using upconversion luminescent nanoparticles. <i>RSC Advances</i> , 2014, 4, 14546.	1.7	12
54	A general and versatile fluorescence turn-on assay for detecting the activity of protein tyrosine kinases based on phosphorylation-inhibited tyrosyl oxidation. <i>Chemical Communications</i> , 2016, 52, 12570-12573.	2.2	12

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55	An emulsion-free digital flow cytometric platform for the precise quantification of microRNA based on single molecule extension-illuminated microbeads (dFlowSeim). <i>Chemical Communications</i> , 2020, 56, 7179-7182.	2.2	12
56	Cationic conjugated polymers for enhancing beneficial bacteria adhesion and biofilm formation in gut microbiota. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110815.	2.5	11
57	Multivalent Engineering of Exosomes with Activatable Aptamer Probes for Specific Regulation and Monitoring of Cell Targeting. <i>Analytical Chemistry</i> , 2022, 94, 3840-3848.	3.2	11
58	Sensitive quantification of messenger RNA with a real-time ligase chain reaction by using a ribonucleotide-modified DNA probe. <i>Chemical Communications</i> , 2014, 50, 13093-13095.	2.2	10
59	Ultrasensitive detection of site-specific DNA methylation by loop-mediated isothermal amplification. <i>Analytical Methods</i> , 2016, 8, 5372-5377.	1.3	10
60	Enzyme-free and multiplexed microRNA detection using microRNA-initiated DNA molecular motor. <i>Science China Chemistry</i> , 2016, 59, 83-88.	4.2	9
61	A Versatile Dynamic Light Scattering Strategy for the Sensitive Detection of Plant MicroRNAs Based on Click Chemistry Amplified Aggregation of Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2019, 25, 1701-1705.	1.7	9
62	CRISPR/Cas13a induced exponential amplification for highly sensitive and specific detection of circular RNA. <i>Talanta</i> , 2022, 246, 123521.	2.9	9
63	Integration of rolling circle amplification and cationic conjugated polymer for the homogeneous detection of single nucleotide polymorphisms. <i>Science Bulletin</i> , 2011, 56, 3247.	1.7	8
64	Highly sensitive quantification of site-specific 5-hydroxymethylcytosine at single-base resolution by HpaII-mediated ligation PCR. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9849-9853.	1.5	8
65	A general strategy for highly sensitive analysis of genetic biomarkers at single-base resolution with ligase-based isothermally exponential amplification. <i>Talanta</i> , 2020, 212, 120754.	2.9	8
66	Ultrasensitive multiplexed detection of miRNA targets of interest based on encoding probe extension in improved cDNA library. <i>Analytica Chimica Acta</i> , 2021, 1152, 338281.	2.6	8
67	Sensitive detection of tumor cells based on aptamer recognition and isothermal exponential amplification. <i>RSC Advances</i> , 2016, 6, 89888-89894.	1.7	7
68	Sensitive detection of mRNA by using specific cleavage-mediated isothermal exponential amplification reaction. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 215-221.	4.0	7
69	A label-free aptamer-based biosensor for microRNA detection by the RNA-regulated fluorescence of malachite green. <i>RSC Advances</i> , 2019, 9, 32906-32910.	1.7	7
70	Facile Clamp-Assisted Ligation Strategy for Direct Discrimination and Background-Free Quantification of Site-Specific 5-Formylcytosine. <i>Analytical Chemistry</i> , 2020, 92, 3477-3482.	3.2	7
71	General Strategy for Bioluminescence Sensing of Peptidase Activity In Vivo Based on Tumor-Targeting Probiotic. <i>Analytical Chemistry</i> , 2021, 93, 4334-4341.	3.2	7
72	Determination of polyamines by high-performance liquid chromatography with chemiluminescence detection. <i>Mikrochimica Acta</i> , 2007, 159, 319-324.	2.5	6

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73	Rapid Recognition and Isolation of Live Colon Cancer Stem Cells by Using Metabolic Labeling of Azido Sugar and Magnetic Beads. <i>Analytical Chemistry</i> , 2016, 88, 3953-3958.	3.2	6
74	Specific detection of RNA mutation at single-base resolution by coupling the isothermal exponential amplification reaction (EXPAR) with chimeric DNA probe-aided precise RNA disconnection at the mutation site. <i>Chemical Communications</i> , 2019, 55, 6934-6937.	2.2	6
75	A terminal extension-actuated isothermal exponential amplification strategy toward the ultrasensitive and versatile detection of enzyme activity in a single cell. <i>Talanta</i> , 2020, 211, 120704.	2.9	6
76	Peroxytungstate oxidation-mediated two-phase amplification system (POM-TPAS) for bisulfite-free quantification of locus-specific 5-hydroxymethylcytosine. <i>Chemical Communications</i> , 2020, 56, 3111-3114.	2.2	6
77	All on size-coded single bead set: a modular enrich-amplify-amplify strategy for attomolar level multi-immunoassay. <i>Chemical Science</i> , 2022, 13, 3501-3506.	3.7	6
78	One-Step Quantitative Single Nucleotide Polymorphism (SNP) Diagnosis By Modified Loop-Mediated Isothermal Amplification (mLAMP). <i>ChemistrySelect</i> , 2019, 4, 1423-1427.	0.7	5
79	Enhancement of the polymerase chain reaction by tungsten disulfide. <i>RSC Advances</i> , 2019, 9, 9373-9378.	1.7	5
80	Ultrasensitive quantification of multiplexed mRNA variants via splice-junction anchored DNA probes and SplintR ligase-initiated PCR. <i>Chemical Communications</i> , 2021, 57, 10011-10014.	2.2	5
81	Ultrasensitive homogeneous detection of microRNAs in a single cell with specifically designed exponential amplification. <i>Chemical Communications</i> , 2021, 57, 5570-5573.	2.2	5
82	Single Microbead-Anchored Fluorescent Immunoassay (SMFIA): A Facile and Versatile Platform Allowing Simultaneous Detection of Multiple Antigens. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2894-2898.	1.7	4
83	Conjoint Analysis of DNA Methylation for Tumor Differentiation Using Cationic Conjugated Polymers. <i>ACS Applied Bio Materials</i> , 2020, 3, 2867-2872.	2.3	4
84	Single microbead-based fluorescent aptasensor (SMFA) for direct isolation and in situ quantification of exosomes from plasma. <i>Analyst, The</i> , 2021, 146, 3346-3351.	1.7	4
85	An electrospun micro/nanofibrous mesh based nontoxic sensor for optical detection of high humidity. <i>Analytical Methods</i> , 2015, 7, 3676-3679.	1.3	3
86	The distinct difference in azido sugar metabolic rate between neural stem cells and fibroblasts and its application for decontamination of chemically induced neural stem cells. <i>Chemical Communications</i> , 2020, 56, 2344-2347.	2.2	3
87	Real-time quantification of fusion transcripts with ligase chain reaction by direct ligation of adjacent DNA probes at fusion junction. <i>Analyst, The</i> , 2020, 145, 3977-3982.	1.7	3
88	Ultrasensitive detection of tumor-specific exosomal proteins by a Single Microbead-based Aptasensor coupled with Terminal deoxynucleotidyl transferase-initiated DNA amplification (SMAT). <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130034.	4.0	3
89	Multiple stem-loop primers induced cascaded loop-mediated isothermal amplification for direct recognition and specific detection of circular RNAs. <i>Analyst, The</i> , 2022, 147, 2124-2129.	1.7	3
90	Real-time detection of mRNA splicing variants with specifically designed reverse-transcription loop-mediated isothermal amplification. <i>RSC Advances</i> , 2020, 10, 6271-6276.	1.7	2

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91	LaF ₃ nanoparticle-assisted sensitive detection of protein kinase activity. <i>Analytical Methods</i> , 2014, 6, 8621-8626.	1.3	1
92	A Versatile Dual-Emission Fluorescent Microhybrid Enabling Visual Detection of Glucose and Other Oxidases-Based Biocatalytic Systems. <i>Advanced Materials Technologies</i> , 2016, 1, .	3.0	1
93	One-pot detection of telomerase activity with high sensitivity and specificity via RNA FRET probes and RNase H-assisted signal cycling amplification. <i>RSC Advances</i> , 2019, 9, 14817-14821.	1.7	1
94	Sensitive detection of fusion transcripts with padlock probe-based continuous cascade amplification (P-CCA). <i>Analyst</i> , The, 2022, , .	1.7	1
95	Light Scattering Technology-Combined Ligation-Dependent Loop-Mediated Isothermal Amplification (LL-LAMP) for Sensitive Detection of RNA. <i>ACS Omega</i> , 0, , .	1.6	1
96	Biosensors: A Versatile Dual-Emission Fluorescent Microhybrid Enabling Visual Detection of Glucose and Other Oxidases-Based Biocatalytic Systems (<i>Adv. Mater. Technol.</i> 2/2016). <i>Advanced Materials Technologies</i> , 2016, 1, .	3.0	0
97	Quantification of Site-Specific 5-Formylcytosine by Integrating Peptide Nucleic Acid-Clamped Ligation with Loop-Mediated Isothermal Amplification. <i>Springer Protocols</i> , 2022, , 77-91.	0.1	0