

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 | Quantification of Site-Specific 5-Formylcytosine by Integrating Peptide Nucleic Acid-Clamped Ligation with Loop-Mediated Isothermal Amplification. Springer Protocols, 2022, , 77-91. | 0.1 | 0 |
| 2 | All on size-coded single bead set: a modular enrich-amplify-amplify strategy for attomolar level multi-immunoassay. Chemical Science, 2022, 13, 3501-3506. | 3.7 | 6 |
| 3 | Multivalent Engineering of Exosomes with Activatable Aptamer Probes for Specific Regulation and Monitoring of Cell Targeting. Analytical Chemistry, 2022, 94, 3840-3848. | 3.2 | 11 |
| 4 | Sensitive detection of fusion transcripts with padlock probe-based continuous cascade amplification (P-CCA). Analyst, The, 2022, , . | 1.7 | 1 |
| 5 | Multiple stem-loop primers induced cascaded loop-mediated isothermal amplification for direct recognition and specific detection of circular RNAs. Analyst, The, 2022, 147, 2124-2129. | 1.7 | 3 |
| 6 | CRISPR/Cas13a induced exponential amplification for highly sensitive and specific detection of circular RNA. Talanta, 2022, 246, 123521. | 2.9 | 9 |
| 7 | Enzymatically Controlled Nanoflakes for Specific Molecular Recognition and Biosensing. Analytical Chemistry, 2022, 94, 8883-8889. | 3.2 | 19 |
| 8 | Ultrasensitive quantification of multiplexed mRNA variants <i>via</i> splice-junction anchored DNA probes and SplintR ligase-initiated PCR. Chemical Communications, 2021, 57, 10011-10014. | 2.2 | 5 |
| 9 | Ultrasensitive homogeneous detection of microRNAs in a single cell with specifically designed exponential amplification. Chemical Communications, 2021, 57, 5570-5573. | 2.2 | 5 |
| 10 | General Strategy for Bioluminescence Sensing of Peptidase Activity In Vivo Based on Tumor-Targeting Probiotic. Analytical Chemistry, 2021, 93, 4334-4341. | 3.2 | 7 |
| 11 | Ultrasensitive multiplexed detection of miRNA targets of interest based on encoding probe extension in improved cDNA library. Analytica Chimica Acta, 2021, 1152, 338281. | 2.6 | 8 |
| 12 | CRISPR/Cas12a-Assisted Ligation-Initiated Loop-Mediated Isothermal Amplification (CAL-LAMP) for Highly Specific Detection of microRNAs. Analytical Chemistry, 2021, 93, 7942-7948. | 3.2 | 99 |
| 13 | Ultrasensitive detection of tumor-specific exosomal proteins by a Single Microbead-based Aptasensor coupled with Terminal deoxynucleotidyl transferase-initiated DNA amplification (SMAT). Sensors and Actuators B: Chemical, 2021, 341, 130034. | 4.0 | 3 |
| 14 | Single microbead-based fluorescent aptasensor (SMFA) for direct isolation and <i>in situ</i> quantification of exosomes from plasma. Analyst, The, 2021, 146, 3346-3351. | 1.7 | 4 |
| 15 | Click Chemistry-Actuated Digital DNA Walker Confined on a Single Particle toward Absolute MicroRNA Quantification. Analytical Chemistry, 2021, 93, 1620-1626. | 3.2 | 25 |
| 16 | A terminal extension-actuated isothermal exponential amplification strategy toward the ultrasensitive and versatile detection of enzyme activity in a single cell. Talanta, 2020, 211, 120704. | 2.9 | 6 |
| 17 | Plasmon-Enhanced Surface-Enhanced Raman Scattering Mapping Concentrated on a Single Bead for Ultrasensitive and Multiplexed Immunoassay. Analytical Chemistry, 2020, 92, 12387-12393. | 3.2 | 19 |
| 18 | An emulsion-free digital flow cytometric platform for the precise quantification of microRNA based on single molecule extension-illuminated microbeads (dFlowSeim). Chemical Communications, 2020, 56, 7179-7182. | 2.2 | 12 |

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|----|--|-----|-----------|
| 19 | Capillarity self-driven DNA hydrogel sensor for visual quantification of microRNA. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128036. | 4.0 | 26 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Real-time quantification of fusion transcripts with ligase chain reaction by direct ligation of adjacent DNA probes at fusion junction. <i>Analyst</i> , 2020, 145, 3977-3982. | 1.7 | 3 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Enhancement of the polymerase chain reaction by tungsten disulfide. <i>RSC Advances</i> , 2019, 9, 9373-9378. | 1.7 | 5 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Identification of a selective DNA ligase for accurate recognition and ultrasensitive quantification of 5-methyladenosine in RNA at one-nucleotide resolution. <i>Chemical Science</i> , 2018, 9, 3354-3359. | 3.7 | 59 |
| 40 | Recent advances in microRNA detection. <i>Analyst, The</i> , 2018, 143, 1758-1774. | 1.7 | 142 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 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 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | An enzyme-free flow cytometric bead assay for the sensitive detection of microRNAs based on click nucleic acid ligation-mediated signal amplification. <i>Analyst, The</i> , 2017, 142, 2967-2973. | 1.7 | 18 |

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|----|--|-----|-----------|
| 55 | Biosensors: A Versatile Dual-Emission Fluorescent Microhybrid Enabling Visual Detection of Glucose and Other Oxidases-Based Biocatalytic Systems (Adv. Mater. Technol. 2/2016). Advanced Materials Technologies, 2016, 1, . | 3.0 | 0 |
| 56 | Ultrasensitive detection of telomerase activity in a single cell using stem-loop primer-mediated exponential amplification (SPEA) with near zero nonspecific signal. Chemical Science, 2016, 7, 4945-4950. | 3.7 | 56 |
| 57 | Enzyme-free and multiplexed microRNA detection using microRNA-initiated DNA molecular motor. Science China Chemistry, 2016, 59, 83-88. | 4.2 | 9 |
| 58 | A general and versatile fluorescence turn-on assay for detecting the activity of protein tyrosine kinases based on phosphorylation-inhibited tyrosyl oxidation. Chemical Communications, 2016, 52, 12570-12573. | 2.2 | 12 |
| 59 | Sensitive detection of tumor cells based on aptamer recognition and isothermal exponential amplification. RSC Advances, 2016, 6, 89888-89894. | 1.7 | 7 |
| 60 | Precise Quantitation of MicroRNA in a Single Cell with Droplet Digital PCR Based on Ligation Reaction. Analytical Chemistry, 2016, 88, 11384-11389. | 3.2 | 90 |
| 61 | A Versatile Dual-Emission Fluorescent Microhybrid Enabling Visual Detection of Glucose and Other Oxidases-Based Biocatalytic Systems. Advanced Materials Technologies, 2016, 1, . | 3.0 | 1 |
| 62 | Ultrasensitive detection of site-specific DNA methylation by loop-mediated isothermal amplification. Analytical Methods, 2016, 8, 5372-5377. | 1.3 | 10 |
| 63 | 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. ACS Applied Materials & Interfaces, 2016, 8, 1019-1024. | 4.0 | 66 |
| 64 | Rapid Recognition and Isolation of Live Colon Cancer Stem Cells by Using Metabolic Labeling of Azido Sugar and Magnetic Beads. Analytical Chemistry, 2016, 88, 3953-3958. | 3.2 | 6 |
| 65 | 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. Angewandte Chemie - International Edition, 2015, 54, 15186-15190. | 7.2 | 43 |
| 66 | Phosphorylation-induced hybridization chain reaction on beads: an ultrasensitive flow cytometric assay for the detection of T4 polynucleotide kinase activity. Chemical Communications, 2015, 51, 5832-5835. | 2.2 | 38 |
| 67 | Highly sensitive and multiplexed analysis of CpG methylation at single-base resolution with ligation-based exponential amplification. Chemical Science, 2015, 6, 1866-1872. | 3.7 | 26 |
| 68 | Highly sensitive detection of CpG methylation in genomic DNA by AuNP-based colorimetric assay with ligase chain reaction. Chemical Communications, 2015, 51, 3371-3374. | 2.2 | 54 |
| 69 | An electrospun micro/nanofibrous mesh based nontoxic sensor for optical detection of high humidity. Analytical Methods, 2015, 7, 3676-3679. | 1.3 | 3 |
| 70 | Real-time fluorescence ligase chain reaction for sensitive detection of single nucleotide polymorphism based on fluorescence resonance energy transfer. Biosensors and Bioelectronics, 2015, 74, 705-710. | 5.3 | 31 |
| 71 | Lab on a single microbead: an ultrasensitive detection strategy enabling microRNA analysis at the single-molecule level. Chemical Science, 2015, 6, 6213-6218. | 3.7 | 66 |
| 72 | Detection of T4 polynucleotide kinase activity based on cationic conjugated polymer-mediated fluorescence resonance energy transfer. Biosensors and Bioelectronics, 2015, 66, 316-320. | 5.3 | 30 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | Highly Sensitive and Specific Multiplexed MicroRNA Quantification Using Size-Coded Ligation Chain Reaction. <i>Analytical Chemistry</i> , 2014, 86, 1076-1082. | 3.2 | 81 |
| 75 | 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 |
| 76 | Highly sensitive detection of protein kinase activity using upconversion luminescent nanoparticles. <i>RSC Advances</i> , 2014, 4, 14546. | 1.7 | 12 |
| 77 | LaF3nanoparticle-assisted sensitive detection of protein kinase activity. <i>Analytical Methods</i> , 2014, 6, 8621-8626. | 1.3 | 1 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | One-pot synthesis of water-soluble and carboxyl-functionalized Yb^{2+} -NaYF ₄ :Yb,Er(Tm) upconversion nanocrystals and their application for bioimaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 12186. | 6.7 | 36 |
| 86 | 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 |
| 87 | One-step ultrasensitive detection of microRNAs with loop-mediated isothermal amplification (LAMP). <i>Chemical Communications</i> , 2011, 47, 2595-2597. | 2.2 | 197 |
| 88 | 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 |
| 89 | 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 |
| 90 | Ultrasensitive Detection of microRNAs by Exponential Isothermal Amplification. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5498-5501. | 7.2 | 452 |

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|----|---|-----|-----------|
| 91 | Simple and sensitive detection of microRNAs with ligase chain reaction. <i>Chemical Communications</i> , 2010, 46, 2432. | 2.2 | 65 |
| 92 | 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 |
| 93 | Chemiluminescent detection of DNA hybridization and single-nucleotide polymorphisms on a solid surface using target-primed rolling circle amplification. <i>Analyst, The</i> , 2008, 133, 1164. | 1.7 | 21 |
| 94 | 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 |
| 95 | Determination of polyamines by high-performance liquid chromatography with chemiluminescence detection. <i>Mikrochimica Acta</i> , 2007, 159, 319-324. | 2.5 | 6 |
| 96 | Determination of nucleic acids in acidic medium by enhanced light scattering of large particles. <i>Talanta</i> , 2000, 51, 63-70. | 2.9 | 45 |
| 97 | 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 |