

Chenghui Liu

List of Publications by Citations

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105
papers

3,488
citations

33
h-index

57
g-index

111
ext. papers

3,999
ext. citations

6.9
avg, IF

5.53
L-index

#	Paper	IF	Citations
105	Ultrasensitive detection of microRNAs by exponential isothermal amplification. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5498-501	16.4	398
104	Monodisperse, size-tunable and highly efficient β -NaYF ₄ :Yb,Er(Tm) up-conversion luminescent nanospheres: controllable synthesis and their surface modifications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3546		203
103	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, 6450-3	9.5	187
102	Efficient fluorescence resonance energy transfer between upconversion nanophosphors and graphene oxide: a highly sensitive biosensing platform. <i>Chemical Communications</i> , 2011 , 47, 4661-3	5.8	184
101	One-step homogeneous detection of DNA hybridization with gold nanoparticle probes by using a linear light-scattering technique. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8022-5	16.4	153
100	Selective determination of cysteine by resonance light scattering technique based on self-assembly of gold nanoparticles. <i>Analytical Biochemistry</i> , 2006 , 351, 18-25	3.1	150
99	Morphology- and phase-controlled synthesis of monodisperse lanthanide-doped NaGdF ₄ nanocrystals with multicolor photoluminescence. <i>Journal of Materials Chemistry</i> , 2009 , 19, 489-496		149
98	Silver nanoparticle-based ultrasensitive chemiluminescent detection of DNA hybridization and single-nucleotide polymorphisms. <i>Analytical Chemistry</i> , 2006 , 78, 3738-44	7.8	112
97	Controlled synthesis of hexagon shaped lanthanide-doped LaF ₃ nanoplates with multicolor upconversion fluorescence. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3875		105
96	Highly sensitive and specific multiplexed microRNA quantification using size-coded ligation chain reaction. <i>Analytical Chemistry</i> , 2014 , 86, 1076-82	7.8	74
95	Dual-readout fluorescent assay of protein kinase activity by use of TiO ₂ -coated magnetic microspheres. <i>Analytical Chemistry</i> , 2013 , 85, 4813-21	7.8	68
94	Development of chemiluminescence detection of gold nanoparticles in biological conjugates for immunoassay. <i>Analytica Chimica Acta</i> , 2005 , 551, 85-91	6.6	62
93	Precise Quantitation of MicroRNA in a Single Cell with Droplet Digital PCR Based on Ligation Reaction. <i>Analytical Chemistry</i> , 2016 , 88, 11384-11389	7.8	61
92	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	9.4	57
91	Upconversion nanophosphor: an efficient phosphopeptides-recognizing matrix and luminescence resonance energy transfer donor for robust detection of protein kinase activity. <i>Analytical Chemistry</i> , 2014 , 86, 6095-102	7.8	53
90	Simple and sensitive detection of microRNAs with ligase chain reaction. <i>Chemical Communications</i> , 2010 , 46, 2432-4	5.8	53
89	Rolling circle extension-actuated loop-mediated isothermal amplification (RCA-LAMP) for ultrasensitive detection of microRNAs. <i>Biosensors and Bioelectronics</i> , 2019 , 128, 17-22	11.8	50

88	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, 380-6	11.8	48
87	A chemiluminescent metalloimmunoassay based on silver deposition on colloidal gold labels. <i>Analytical Biochemistry</i> , 2006 , 359, 247-52	3.1	48
86	Highly sensitive detection of CpG methylation in genomic DNA by AuNP-based colorimetric assay with ligase chain reaction. <i>Chemical Communications</i> , 2015 , 51, 3371-4	5.8	46
85	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 ^{9.4}	9.4	45
84	Self-aggregation of oligonucleotide-functionalized gold nanoparticles and its applications for highly sensitive detection of DNA. <i>Chemical Communications</i> , 2010 , 46, 5548-50	5.8	44
83	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	5.8	40
82	Fluorescent water-soluble probes based on dendritic PEG substituted perylene bisimides: synthesis, photophysical properties, and live cell images. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6176		39
81	A novel restriction endonuclease <i>GlaI</i> for rapid and highly sensitive detection of DNA methylation coupled with isothermal exponential amplification reaction. <i>Chemical Science</i> , 2018 , 9, 1344-1351	9.4	37
80	New CRISPR-Derived microRNA Sensing Mechanism Based on Cas12a Self-Powered and Rolling Circle Transcription-Unleashed Real-Time crRNA Recruiting. <i>Analytical Chemistry</i> , 2020 , 92, 6702-6708	7.8	36
79	Identification of a selective DNA ligase for accurate recognition and ultrasensitive quantification of -methyladenosine in RNA at one-nucleotide resolution. <i>Chemical Science</i> , 2018 , 9, 3354-3359	9.4	35
78	NIR-Mediated Nanohybrids of Upconversion Nanophosphors and Fluorescent Conjugated Polymers for High-Efficiency Antibacterial Performance Based on Fluorescence Resonance Energy Transfer. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2967-2971	10.1	35
77	One-pot synthesis of water-soluble and carboxyl-functionalized β -NaYF ₄ :Yb,Er(Tm) upconversion nanocrystals and their application for bioimaging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12186		35
76	Surface modification of hydrophobic NaYF ₄ :Yb,Er upconversion nanophosphors and their applications for immunoassay. <i>Science China Chemistry</i> , 2011 , 54, 1292-1297	7.9	35
75	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, 15186-90	16.4	34
74	A versatile platform for highly sensitive detection of kinase activity based on metal ion-mediated FRET using an anionic conjugated polymer. <i>Chemical Communications</i> , 2013 , 49, 3887-9	5.8	33
73	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, 5832-5	5.8	33
72	The Effects of Cold Plasma-Activated Water Treatment on the Microbial Growth and Antioxidant Properties of Fresh-Cut Pears. <i>Food and Bioprocess Technology</i> , 2019 , 12, 1842-1851	5.1	32
71	Boosting Luminance Energy Transfer Efficiency in Upconversion Nanoparticles with an Energy-Concentrating Zone. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12117-12122	16.4	31

70	Multiplex ligation-dependent probe amplification (MLPA) for ultrasensitive multiplexed microRNA detection using ribonucleotide-modified DNA probes. <i>Chemical Communications</i> , 2013 , 49, 10013-5	5.8	30
69	Detection of T4 polynucleotide kinase activity based on cationic conjugated polymer-mediated fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 316-20	11.8	29
68	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, 10956-61	7.8	29
67	An ultrasensitive flow cytometric immunoassay based on bead surface-initiated template-free DNA extension. <i>Chemical Science</i> , 2018 , 9, 6605-6613	9.4	27
66	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, 705-10	11.8	26
65	A three-way junction structure-based isothermal exponential amplification strategy for sensitive detection of 3Tterminal 2FO-methylated plant microRNA. <i>Chemical Communications</i> , 2017 , 53, 1124-1127	5.8	25
64	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	9.4	24
63	Size and morphology controllable synthesis of oil-dispersible LaF ₃ :Yb,Er upconversion fluorescent nanocrystals via a solid-liquid two-phase approach. <i>Scripta Materialia</i> , 2008 , 58, 89-92	5.6	24
62	Chemiluminescent detection of DNA hybridization using gold nanoparticles as labels. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 613-8	4.4	24
61	Portable and sensitive detection of protein kinase activity by using commercial personal glucose meter. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 508-512	8.5	23
60	A Versatile Photoinduced Electron Transfer-Based Upconversion Fluorescent Biosensing Platform for the Detection of Disease Biomarkers and Nerve Agent. <i>Advanced Functional Materials</i> , 2019 , 29, 1903191	15.6	22
59	An enzyme-free signal amplification strategy for sensitive detection of microRNA via catalyzed hairpin assembly. <i>Analytical Methods</i> , 2014 , 6, 9477-9482	3.2	21
58	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	5.8	20
57	Ultrasensitive Detection of microRNAs by Exponential Isothermal Amplification. <i>Angewandte Chemie</i> , 2010 , 122, 5630-5633	3.6	20
56	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	9.2	19
55	Phosphorylation-regulated crosslinking of gold nanoparticles: a new strategy for colorimetric detection of protein kinase activity. <i>Analyst, The</i> , 2015 , 140, 5685-91	5	17
54	Robust detection of tyrosine phosphatase activity by coupling chymotrypsin-assisted selective peptide cleavage and a graphene oxide-based fluorescent platform. <i>Chemical Communications</i> , 2014 , 50, 8161-3	5.8	17
53	CE immunoassay with enhanced chemiluminescence detection of erythropoietin using silica dioxide nanoparticles as pseudostationary phase. <i>Electrophoresis</i> , 2009 , 30, 3092-3098	3.6	16

52	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	7.8	14
51	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	5	14
50	Digital quantitative analysis of microRNA in single cell based on ligation-depended polymerase colony (Polony). <i>Biosensors and Bioelectronics</i> , 2017 , 95, 146-151	11.8	13
49	Light-Triggered Disruption of PAG-Based Amphiphilic Random Copolymer Micelles. <i>Langmuir</i> , 2015 , 31, 7758-63	4	13
48	A hyperbranched transcription-activated CRISPR-Cas12a signal amplification strategy for sensitive microRNA sensing. <i>Chemical Communications</i> , 2020 , 56, 13445-13448	5.8	12
47	Sensitive detection of uracil-DNA glycosylase (UDG) activity based on terminal deoxynucleotidyl transferase-assisted formation of fluorescent copper nanoclusters (CuNCs). <i>Talanta</i> , 2019 , 195, 320-326	6.2	11
46	Copper ion-induced fluorescence band shift of CdTe quantum dots: a highly specific strategy for visual detection of Cu(2+) with a portable UV lamp. <i>Analyst, The</i> , 2015 , 140, 7859-63	5	10
45	Effect of atmospheric cold plasma treatment on antioxidant activities and reactive oxygen species production in postharvest blueberries during storage. <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 5586-5595	4.3	10
44	Highly sensitive detection of protein kinase activity using upconversion luminescent nanoparticles. <i>RSC Advances</i> , 2014 , 4, 14546	3.7	10
43	A versatile fluorescence turn-on assay for highly sensitive detection of tyrosine phosphatase activity. <i>Chemical Communications</i> , 2014 , 50, 13983-6	5.8	10
42	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	5.8	10
41	Boosting Luminance Energy Transfer Efficiency in Upconversion Nanoparticles with an Energy-Concentrating Zone. <i>Angewandte Chemie</i> , 2019 , 131, 12245-12250	3.6	9
40	Solvent-assisted selective synthesis of NaLaF ₄ and LaF ₃ fluorescent nanocrystals via a facile solvothermal approach. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1964-1968	5.7	9
39	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	7.8	9
38	Effects of Ozonated Water on Microbial Growth, Quality Retention and Pesticide Residue Removal of Fresh-cut Onions. <i>Ozone: Science and Engineering</i> , 2020 , 42, 399-407	2.4	9
37	Enzyme-free and multiplexed microRNA detection using microRNA-initiated DNA molecular motor. <i>Science China Chemistry</i> , 2016 , 59, 83-88	7.9	8
36	Ultrasensitive genotyping with target-specifically generated circular DNA templates and RNA FRET probes. <i>Chemical Communications</i> , 2015 , 51, 11556-9	5.8	7
35	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	9.2	7

34	Double Strand-Specific Nuclease-Assisted Sensitive Detection of MicroRNA. <i>Acta Chimica Sinica</i> , 2014 , 72, 395	3.3	6
33	Label-free detection of histone based on cationic conjugated polymer-mediated fluorescence resonance energy transfer. <i>Talanta</i> , 2018 , 180, 150-155	6.2	6
32	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	7.8	5
31	Effects of hydrogen sulfide on the surface whitening and physiological responses of fresh-cut carrots. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 4726-4732	4.3	5
30	Click Chemistry-Actuated Digital DNA Walker Confined on a Single Particle toward Absolute MicroRNA Quantification. <i>Analytical Chemistry</i> , 2021 , 93, 1620-1626	7.8	5
29	Highly specific quantification of mRNA mutation in single cells based on RNase H cleavage-assisted reverse transcription (RT)-PCR. <i>Chinese Chemical Letters</i> , 2020 , 31, 1095-1098	8.1	5
28	miRNA and Degradome Sequencing Identify miRNAs and Their Target Genes Involved in the Browning Inhibition of Fresh-Cut Apples by Hydrogen Sulfide. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 8462-8470	5.7	5
27	Amplification-Free and Mix-and-Read Analysis of Multiplexed MicroRNAs on a Single Plasmonic Microbead. <i>Nano Letters</i> , 2021 , 21, 6718-6724	11.5	5
26	Integrated Single Microbead-Arrayed µFluidic Platform for the Automated Detection of Multiplexed Biomarkers. <i>ACS Sensors</i> , 2020 , 5, 798-806	9.2	4
25	One bead three targets: An enzyme-free platform enabling simultaneous detection of multiplex MicroRNAs on a single microbead. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 127119	8.5	4
24	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	5.8	3
23	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	5.8	3
22	High-sensitive sensing of plant microRNA by integrating click chemistry with an unusual on-bead poly(T)-promoted transcription amplification. <i>Analytica Chimica Acta</i> , 2020 , 1111, 16-22	6.6	3
21	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	4.5	3
20	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	4.8	3
19	Target-Regulated Ce ³⁺ /Ce ⁴⁺ Redox Switch for Fluorescence Turn-on Detection of H ₂ O ₂ and Glucose. <i>ChemistrySelect</i> , 2017 , 2, 9181-9185	1.8	2
18	Nanoparticle Tracking Analysis-Based In Vitro Detection of Critical Biomarkers. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2881-2888	5.6	2
17	Sensitive detection of hexokinase activity by use of Zr(4+)-coated magnetic beads coupled with phenylboronic acid-functionalized upconversion nanophosphors. <i>Analyst, The</i> , 2014 , 139, 5582-6	5	2

16	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</i> , 2015 , 127, 15401-15405	3.6	2
15	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	6.2	2
14	Colorimetric and fluorometric dual-readout protein kinase assay by tuning the active surface of nanoceria. <i>Chemical Communications</i> , 2021 , 57, 8154-8157	5.8	2
13	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	9.4	2
12	A Versatile Dual-Emission Fluorescent Microhybrid Enabling Visual Detection of Glucose and Other Oxidases-Based Biocatalytic Systems. <i>Advanced Materials Technologies</i> , 2016 , 1,	6.8	1
11	Detection of reverse transcription-PCR products by a simple and rapid light scattering technique. <i>Analyst, The</i> , 2011 , 136, 4467-71	5	1
10	Trends of Bead Counting-Based Technologies Toward the Detection of Disease-Related Biomarkers. <i>Frontiers in Chemistry</i> , 2020 , 8, 600317	5	1
9	Chemically Enhanced Live Probiotic for In Vivo Tumor Targeting and Inhibition. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1368-1376	4.3	0
8	Recent advances in exosome analysis assisted by functional nucleic acid-based signal amplification technologies. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 149, 116549	14.6	0
7	Precise quantification of N1-Methyladenosine with a site-specific RNase H cleavage-assisted isothermal amplification strategy. <i>Sensors and Actuators B: Chemical</i> , 2021 , 354, 131200	8.5	0
6	Microchamber-Free Digital Flow Cytometric Analysis of T4 Polynucleotide Kinase Phosphatase Based on Single-Enzyme-to-Single-Bead Space-Confined Reaction. <i>Analytical Chemistry</i> , 2021 , 93, 14828-14836 ^o	7.8	0
5	Target Extension-Activated DNA Walker on Nanoparticles for Digital Counting-Based Analysis of MicroRNA. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 1471-1476	4.9	0
4	Programming the -cleavage Activity of CRISPR-Cas13a by Single-Strand DNA Blocker and Its Biosensing Application.. <i>Analytical Chemistry</i> , 2022 , 94, 3987-3996	7.8	0
3	On-bead enzyme-catalyzed signal amplification for the high-sensitive detection of disease biomarkers. <i>Methods in Enzymology</i> , 2020 , 630, 179-197	1.7	
2	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	0.3	
1	A General Fluorescence Turn-On Sulfotransferase Assay through the Detection of Free Phosphate Ions by Using A Calcein/Ce3+ System. <i>ChemistrySelect</i> , 2018 , 3, 9753-9758	1.8	