

Bin-Cheng Yin

List of Publications by Year in descending order

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63
papers

4,298
citations

136885

32
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114418

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64
docs citations

64
times ranked

4547
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step, Multiplexed Fluorescence Detection of microRNAs Based on Duplex-Specific Nuclease Signal Amplification. <i>Journal of the American Chemical Society</i> , 2012, 134, 5064-5067.	6.6	473
2	Rational Engineering of a Dynamic, Entropy-Driven DNA Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9077-9081.	7.2	321
3	An Allosteric Dual-DNAzyme Unimolecular Probe for Colorimetric Detection of Copper(II). <i>Journal of the American Chemical Society</i> , 2009, 131, 14624-14625.	6.6	282
4	Attomolar Ultrasensitive MicroRNA Detection by DNA-Scaffolded Silver-Nanocluster Probe Based on Isothermal Amplification. <i>Analytical Chemistry</i> , 2012, 84, 5165-5169.	3.2	251
5	Simultaneous Surface-Enhanced Raman Spectroscopy Detection of Multiplexed MicroRNA Biomarkers. <i>Analytical Chemistry</i> , 2017, 89, 6120-6128.	3.2	172
6	Simple and Cost-Effective Glucose Detection Based on Carbon Nanodots Supported on Silver Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 1323-1328.	3.2	166
7	Direct Exosome Quantification via Bivalent-Cholesterol-Labeled DNA Anchor for Signal Amplification. <i>Analytical Chemistry</i> , 2017, 89, 12968-12975.	3.2	151
8	Copper-Mediated DNA-Scaffolded Silver Nanocluster On-Off Switch for Detection of Pyrophosphate and Alkaline Phosphatase. <i>Analytical Chemistry</i> , 2016, 88, 9219-9225.	3.2	148
9	Quantification of Exosome Based on a Copper-Mediated Signal Amplification Strategy. <i>Analytical Chemistry</i> , 2018, 90, 8072-8079.	3.2	147
10	Highly sensitive detection of exosomes by SERS using gold nanostar@Raman reporter@nanoshell structures modified with a bivalent cholesterol-labeled DNA anchor. <i>Analyst, The</i> , 2018, 143, 4915-4922.	1.7	128
11	Ultrasensitive, colorimetric detection of microRNAs based on isothermal exponential amplification reaction-assisted gold nanoparticle amplification. <i>Biosensors and Bioelectronics</i> , 2016, 86, 1011-1016.	5.3	113
12	DNAzyme self-assembled gold nanoparticles for determination of metal ions using fluorescence anisotropy assay. <i>Analytical Biochemistry</i> , 2010, 401, 47-52.	1.1	107
13	A highly integrated DNA nanomachine operating in living cells powered by an endogenous stimulus. <i>Chemical Science</i> , 2018, 9, 3299-3304.	3.7	101
14	Visualization of oxidative injury in the mouse kidney using selective superoxide anion fluorescent probes. <i>Chemical Science</i> , 2018, 9, 7606-7613.	3.7	92
15	Colorimetric logic gates based on aptamer-crosslinked hydrogels. <i>Chemical Communications</i> , 2012, 48, 1248-1250.	2.2	89
16	An RNA-Guided Cas9 Nickase-Based Method for Universal Isothermal DNA Amplification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5382-5386.	7.2	83
17	Sensitive Detection of MicroRNA in Complex Biological Samples via Enzymatic Signal Amplification Using DNA Polymerase Coupled with Nicking Endonuclease. <i>Analytical Chemistry</i> , 2013, 85, 11487-11493.	3.2	79
18	Highly sensitive surface-enhanced Raman scattering detection of hexavalent chromium based on hollow sea urchin-like TiO ₂ @Ag nanoparticle substrate. <i>Biosensors and Bioelectronics</i> , 2017, 87, 187-194.	5.3	79

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19	Highly sensitive detection of microRNAs based on isothermal exponential amplification-assisted generation of catalytic G-quadruplex DNAzyme. <i>Biosensors and Bioelectronics</i> , 2013, 42, 131-135.	5.3	78
20	Multiple and sensitive SERS detection of cancer-related exosomes based on gold-silver bimetallic nanopropagations. <i>Analyst</i> , 2020, 145, 2795-2804.	1.7	66
21	A novel polydopamine-based chemiluminescence resonance energy transfer method for microRNA detection coupling duplex-specific nuclease-aided target recycling strategy. <i>Biosensors and Bioelectronics</i> , 2016, 80, 366-372.	5.3	64
22	A dual signal amplification method for exosome detection based on DNA dendrimer self-assembly. <i>Analyst</i> , 2019, 144, 1995-2002.	1.7	61
23	Multiplexed detection of microRNAs by tuning DNA-scaffolded silver nanoclusters. <i>Analyst</i> , 2013, 138, 4812.	1.7	58
24	Label-Free Detection of Sequence-Specific DNA Based on Fluorescent Silver Nanoclusters-Assisted Surface Plasmon-Enhanced Energy Transfer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12856-12863.	4.0	58
25	A lateral flow strip combined with Cas9 nickase-triggered amplification reaction for dual food-borne pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112364.	5.3	58
26	A cell-surface-anchored ratiometric i-motif sensor for extracellular pH detection. <i>Chemical Communications</i> , 2016, 52, 7818-7821.	2.2	54
27	Sensitive DNA-Based Electrochemical Strategy for Trace Bleomycin Detection. <i>Analytical Chemistry</i> , 2010, 82, 8272-8277.	3.2	49
28	A novel fluorescence probe of dsDNA-templated copper nanoclusters for quantitative detection of microRNAs. <i>RSC Advances</i> , 2013, 3, 8633.	1.7	45
29	Sirtuin-dependent reversible lysine acetylation of glutamine synthetases reveals an autofeedback loop in nitrogen metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6653-6658.	3.3	43
30	Rational Engineering of a Dynamic, Entropy-Driven DNA Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie</i> , 2017, 129, 9205-9209.	1.6	40
31	A universal real-time PCR assay for rapid quantification of microRNAs via the enhancement of base-stacking hybridization. <i>Chemical Communications</i> , 2013, 49, 8247.	2.2	36
32	Development of a Highly Sensitive Whole-Cell Biosensor for Arsenite Detection through Engineered Promoter Modifications. <i>ACS Synthetic Biology</i> , 2019, 8, 2295-2302.	1.9	33
33	Catalytic-Hairpin-Assembly-Assisted DNA Tetrahedron Nanoprobe for Intracellular MicroRNA Imaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 2861-2866.	2.3	33
34	An RNA-based catalytic hairpin assembly circuit coupled with CRISPR-Cas12a for one-step detection of microRNAs. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114152.	5.3	33
35	Mercury(II) Ion Detection via Pyrene-Mediated Photolysis of Disulfide Bonds. <i>Chemistry - A European Journal</i> , 2012, 18, 1286-1289.	1.7	27
36	Enzyme-free detection of sequence-specific microRNAs based on nanoparticle-assisted signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2016, 77, 995-1000.	5.3	27

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37	Engineering Prokaryotic Transcriptional Activator XylR as a Xylose-Inducible Biosensor for Transcription Activation in Yeast. <i>ACS Synthetic Biology</i> , 2020, 9, 1022-1029.	1.9	27
38	Construction of a DNA-AuNP-based satellite network for exosome analysis. <i>Analyst, The</i> , 2019, 144, 5996-6003.	1.7	26
39	Delivery of siRNA based on engineered exosomes for glioblastoma therapy by targeting STAT3. <i>Biomaterials Science</i> , 2022, 10, 1582-1590.	2.6	26
40	DNA template-regulated intergrowth of a fluorescent silver nanocluster emitter pair. <i>RSC Advances</i> , 2015, 5, 98467-98471.	1.7	24
41	Ultrasensitive SERS detection of specific oligonucleotides based on Au@AgAg bimetallic nanorods. <i>Analyst, The</i> , 2019, 144, 2929-2935.	1.7	23
42	A CRISPR-Cas9 Strategy for Activating the <i>Saccharopolyspora erythraea</i> Erythromycin Biosynthetic Gene Cluster with Knock-in Bidirectional Promoters. <i>ACS Synthetic Biology</i> , 2019, 8, 1134-1143.	1.9	22
43	A Cas12a-mediated cascade amplification method for microRNA detection. <i>Analyst, The</i> , 2020, 145, 5547-5552.	1.7	22
44	A versatile proximity-dependent probe based on light-up DNA-scaffolded silver nanoclusters. <i>Analyst, The</i> , 2016, 141, 1301-1306.	1.7	19
45	A novel linear molecular beacon based on DNA-scaffolded silver nanocluster for DNA detection via exonuclease III-assisted cyclic amplification. <i>RSC Advances</i> , 2015, 5, 65437-65443.	1.7	18
46	An RNA-Guided Cas9 Nickase-Based Method for Universal Isothermal DNA Amplification. <i>Angewandte Chemie</i> , 2019, 131, 5436-5440.	1.6	18
47	Multimachine Communication Network That Mimics the Adaptive Immune Response. <i>Journal of the American Chemical Society</i> , 2020, 142, 3851-3861.	6.6	18
48	Highly sensitive surface-enhanced Raman scattering detection of adenosine triphosphate based on core-satellite assemblies. <i>Analytical Methods</i> , 2017, 9, 6038-6043.	1.3	17
49	A novel molecular beacon-based method for isothermal detection of sequence-specific DNA via T7 RNA polymerase-aided target regeneration. <i>Biosensors and Bioelectronics</i> , 2015, 68, 365-370.	5.3	16
50	Probing exosome internalization pathways through confocal microscopy imaging. <i>Chemical Communications</i> , 2019, 55, 14015-14018.	2.2	16
51	Precursor Supply for Erythromycin Biosynthesis: Engineering of Propionate Assimilation Pathway Based on Propionylation Modification. <i>ACS Synthetic Biology</i> , 2019, 8, 371-380.	1.9	14
52	Nitrogen Regulator GlnR Controls Redox Sensing and Lipids Anabolism by Directly Activating the whiB3 in <i>Mycobacterium smegmatis</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 74.	1.5	14
53	Multiplex genotyping and allele frequency estimation in pooled DNAs using non-gel capillary electrophoresis. <i>Analytical Biochemistry</i> , 2009, 387, 221-229.	1.1	11
54	A CoOOH nanoflake-based light scattering probe for the simple and selective detection of uric acid in human serum. <i>Analytical Methods</i> , 2018, 10, 4951-4957.	1.3	11

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55	Size-dependent modulation of CoOOH nanoflakes light scattering for rapid and selective detection of tetracycline in milk. <i>Journal of Analysis and Testing</i> , 2018, 2, 332-341.	2.5	11
56	Advances in the role and mechanism of lactic acid bacteria in treating obesity. , 2022, 1, 101-115.		11
57	A telomerase-responsive nanoprobe with theranostic properties in tumor cells. <i>Talanta</i> , 2020, 215, 120898.	2.9	8
58	Peptide-Functionalized Spherical Polyelectrolyte Nanobrushes for Real-Time Sensing of Protease Activity. <i>ChemBioChem</i> , 2010, 11, 494-497.	1.3	7
59	Construction of microarrays for genotyping of DQA using unmodified 45-mer oligonucleotide. <i>Molecular Biotechnology</i> , 2007, 36, 142-150.	1.3	5
60	Microarray-based estimation of SNP allele-frequency in pooled DNA using the Langmuir kinetic model. <i>BMC Genomics</i> , 2008, 9, 605.	1.2	5
61	Nicotinamide adenine dinucleotide detection based on silver nanoclusters stabilized by a dumbbell-shaped probe. <i>Analyst, The</i> , 2017, 142, 1765-1771.	1.7	5
62	A dual-probe hybridization method for reducing variability in single nucleotide polymorphism analysis with oligonucleotide microarrays. <i>Analytical Biochemistry</i> , 2008, 383, 270-278.	1.1	4
63	Simultaneous imaging of cancer biomarkers in live cells based on DNA-engineered exosomes. <i>Analyst, The</i> , 2021, 146, 1626-1632.	1.7	4