Bingling Li

List of Publications by Year
in descending order

71 papers	5,872 citations	87888 38 h-index	95266 68 g-index
72 all docs	72 docs citations	72 times ranked	5385 citing authors

#	Article	IF	Citations
1	Simple and sensitive aptamer-based colorimetric sensing of protein using unmodified gold nanoparticle probes. Chemical Communications, 2007, , 3735.	4.1	442
2	Rational, modular adaptation of enzyme-free DNA circuits to multiple detection methods. Nucleic Acids Research, 2011, 39, e110-e110.	14.5	438
3	Carbon nanotubeâ€“DNA hybrid fluorescent sensor for sensitive and selective detection of mercury(ii) ion. Chemical Communications, 2010, 46, 1476.	4.1	276
4	Real-Time Detection of Isothermal Amplification Reactions with Thermostable Catalytic Hairpin Assembly. Journal of the American Chemical Society, 2013, 135, 7430-7433.	13.7	243
5	â€œFittingâ€•Makes â€œSensingâ€•Simple: Label-Free Detection Strategies Based on Nucleic Acid Aptamers. Accounts of Chemical Research, 2013, 46, 203-213.	15.6	218
6	Probing Spatial Organization of DNA Strands Using Enzyme-Free Hairpin Assembly Circuits. Journal of the American Chemical Society, 2012, 134, 13918-13921.	13.7	217
7	DNAzyme-based colorimetric sensing of lead (Pb²⁺) using unmodified gold nanoparticle probes. Nanotechnology, 2008, 19, 095501.	2.6	202
8	Multifunctional Label-Free Electrochemical Biosensor Based on an Integrated Aptamer. Analytical Chemistry, 2008, 80, 5110-5117.	6.5	186
9	G-quadruplex-based DNAzyme for sensitive mercury detection with the naked eye. Chemical Communications, 2009, , 3551.	4.1	186
10	Highly ordered mesoporous carbons as electrode material for the construction of electrochemical dehydrogenase- and oxidase-based biosensors. Biosensors and Bioelectronics, 2008, 24, 442-447.	10.1	164
11	Mismatches Improve the Performance of Strandâ€Displacement Nucleic Acid Circuits. Angewandte Chemie - International Edition, 2014, 53, 1845-1848.	13.8	164
12	SERS opens a new way in aptasensor for protein recognition with high sensitivity and selectivity. Chemical Communications, 2007, , 5220.	4.1	145
13	Solid-State Probe Based Electrochemical Aptasensor for Cocaine: A Potentially Convenient, Sensitive, Repeatable, and Integrated Sensing Platform for Drugs. Analytical Chemistry, 2010, 82, 1556-1563.	6.5	139
14	DNA based gold nanoparticles colorimetric sensors for sensitive and selective detection of Ag(I) ions. Analytica Chimica Acta, 2009, 644, 78-82.	5.4	136
15	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. Angewandte Chemie - International Edition, 2017, 56, 992-996.	13.8	135
16	The characteristics of highly ordered mesoporous carbons as electrode material for electrochemical sensing as compared with carbon nanotubes. Electrochemistry Communications, 2008, 10, 859-863.	4.7	131
17	Aptamer-Controlled Biofuel Cells in Logic Systems and Used as Self-Powered and Intelligent Logic Aptasensors. Journal of the American Chemical Society, 2010, 132, 2172-2174.	13.7	130
18	Robust Strand Exchange Reactions for the Sequence-Specific, Real-Time Detection of Nucleic Acid Amplicons. Analytical Chemistry, 2015, 87, 3314-3320.	6.5	128

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19	Amplified electrochemical aptasensor taking AuNPs based sandwich sensing platform as a model. Biosensors and Bioelectronics, 2008, 23, 965-970.	10.1	117
20	Sensitive detection of protein by an aptamer-based label-free fluorescing molecular switch. Chemical Communications, 2007, , 73-75.	4.1	116
21	Nucleobaseâˆ'Metal Hybrid Materials:Â Preparation of Submicrometer-Scale, Spherical Colloidal Particles of Adenineâˆ'Gold(III) via a Supramolecular Hierarchical Self-Assembly Approach. Chemistry of Materials, 2007, 19, 2987-2993.	6.7	109
22	DNA Detection Using Origami Paper Analytical Devices. Analytical Chemistry, 2013, 85, 9713-9720.	6.5	109
23	G-Quadruplex-based DNAzyme for colorimetric detection ofcocaine: Using magnetic nanoparticles as the separation and amplification element. Analyst, The, 2011, 136, 493-497.	3.5	99
24	Investigation of 3,3â€²,5,5â€²-tetramethylbenzidine as colorimetric substrate for a peroxidatic DNAzyme. Analytica Chimica Acta, 2009, 651, 234-240.	5.4	96
25	Adapting Enzyme-Free DNA Circuits to the Detection of Loop-Mediated Isothermal Amplification Reactions. Analytical Chemistry, 2012, 84, 8371-8377.	6.5	90
26	Low-Noise Nanopore Enables In-Situ and Label-Free Tracking of a Trigger-Induced DNA Molecular Machine at the Single-Molecular Level. Journal of the American Chemical Society, 2020, 142, 4481-4492.	13.7	83
27	Potassium-sensitive G-quadruplexDNA for sensitive visible potassium detection. Analyst, The, 2010, 135, 71-75.	3.5	80
28	DNA circuits as amplifiers for the detection of nucleic acids on a paperfluidic platform. Lab on A Chip, 2012, 12, 2951.	6.0	80
29	Au nanoparticles grafted sandwich platform used amplified small molecule electrochemical aptasensor. Biosensors and Bioelectronics, 2009, 24, 1979-1983.	10.1	73
30	Reusable, label-free electrochemical aptasensor for sensitive detection of small molecules. Chemical Communications, 2007, , 3780.	4.1	71
31	Layer-by-layer electrochemical biosensor with aptamer-appended active polyelectrolyte multilayer for sensitive protein determination. Biosensors and Bioelectronics, 2010, 25, 1902-1907.	10.1	70
32	A Sweet Spot for Molecular Diagnostics: Coupling Isothermal Amplification and Strand Exchange Circuits to Glucometers. Scientific Reports, 2015, 5, 11039.	3.3	66
33	Aptamer-based label-free method for hemin recognition and DNA assay by capillary electrophoresis with chemiluminescence detection. Analytical and Bioanalytical Chemistry, 2007, 389, 887-893.	3.7	54
34	Establishment of a universal and rational gene detection strategy through three-way junction-based remote transduction. Chemical Science, 2018, 9, 760-769.	7.4	54
35	Adaptive Recognition of Small Molecules by Nucleic Acid Aptamers through a Label-Free Approach. Chemistry - A European Journal, 2007, 13, 6718-6723.	3.3	51
36	[Ru(bpy)₂(dcbpy)NHS] Labeling/Aptamerâ€Based Biosensor for the Detection of Lysozyme by Increasing Sensitivity with Gold Nanoparticle Amplification. Chemistry - an Asian Journal, 2008, 3, 1935-1941.	3.3	48

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37	Exploration of solid-state nanopores in characterizing reaction mixtures generated from a catalytic DNA assembly circuit. Chemical Science, 2019, 10, 1953-1961.	7.4	39
38	CLIPON: A CRISPRâ€Enabled Strategy that Turns Commercial Pregnancy Test Strips into General Pointâ€ofâ€Need Test Devices. Angewandte Chemie - International Edition, 2022, 61, e202115907.	13.8	39
39	Ionic Liquids as Selectors for the Enhanced Detection of Proteins. Chemistry - A European Journal, 2007, 13, 8516-8521.	3.3	38
40	Colorimetric recognition of the coralyneâ€"poly(dA) interaction using unmodified gold nanoparticle probes, and further detection of coralyne based upon this recognition system. Analyst, The, 2009, 134, 1647.	3.5	38
41	Nanoscale-enhanced Ru(bpy)32+ electrochemiluminescence labels and related aptamer-based biosensing system. Analyst, The, 2008, 133, 1209.	3.5	36
42	Adaption of a Solid-State Nanopore to Homogeneous DNA Organization Verification and Label-Free Molecular Analysis without Covalent Modification. Analytical Chemistry, 2018, 90, 814-820.	6.5	36
43	SARS-CoV-2 Point-of-Care (POC) Diagnosis Based on Commercial Pregnancy Test Strips and a Palm-Size Microfluidic Device. Analytical Chemistry, 2021, 93, 11956-11964.	6.5	36
44	Flourescent Switch Constructed Based on Hemin-Sensitive Anionic Conjugated Polymer and Its Applications in DNA-Related Sensors. Analytical Chemistry, 2009, 81, 3544-3550.	6.5	34
45	An IMP-Reset gate-based reusable and self-powered â€œsmartâ€•logic aptasensor on a microfluidic biofuel cell. Lab on A Chip, 2010, 10, 2932.	6.0	34
46	Analytical potential of gold nanoparticles in functional aptamer-based biosensors. Bioanalytical Reviews, 2010, 1, 187-208.	0.2	31
47	Homogeneous Analysis: Labelâ€Free and Substrateâ€Free Aptasensors. Chemistry - an Asian Journal, 2010, 5, 1262-1272.	3.3	29
48	An investigation of solid-state nanopores on label-free metal-ion signalling <i>via</i> the transition of RNA-cleavage DNAzyme and the hybridization chain reaction. Nanoscale, 2019, 11, 10339-10347.	5.6	27
49	Coupling Two Different Nucleic Acid Circuits in an Enzyme-Free Amplifier. Molecules, 2012, 17, 13211-13220.	3.8	23
50	A signal-flexible gene diagnostic strategy coupling loop-mediated isothermal amplification with hybridization chain reaction. Analytica Chimica Acta, 2019, 1079, 171-179.	5.4	23
51	Low-Noise Solid-State Nanopore Enhancing Direct Label-Free Analysis for Small Dimensional Assemblies Induced by Specific Molecular Binding. ACS Applied Materials & Interfaces, 2021, 13, 9482-9490.	8.0	19
52	One-tube smart genetic testing via coupling isothermal amplification and three-way nucleic acid circuit to glucometers. Analytica Chimica Acta, 2020, 1106, 191-198.	5.4	17
53	A fully-electronic charge-based DNA sequencing CMOS biochip. , 2012, , .		16
54	Strand-Exchange Nucleic Acid Circuitry with Enhanced Thermo-and Structure- Buffering Abilities Turns Gene Diagnostics Ultra-Reliable and Environmental Compatible. Scientific Reports, 2016, 6, 36605.	3.3	16

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55	Engineering Signaling Aptamers That Rely on Kinetic Rather Than Equilibrium Competition. Analytical Chemistry, 2016, 88, 2250-2257.	6.5	16
56	Study on the Functionalization and Signaling Efficiency of the Hybridization Chain Reaction Using Traditional and Single Molecular Characterizations. ACS Applied Bio Materials, 2021, 4, 3649-3657.	4.6	16
57	Establishment of Dual Hairpin Ligation-Induced Isothermal Amplification for Universal, Accurate, and Flexible Nucleic Acid Detection. Analytical Chemistry, 2021, 93, 3315-3323.	6.5	16
58	Homogeneous and universal transduction of various nucleic acids to an off-shelf device based on programmable toehold switch sensing. Chemical Communications, 2020, 56, 2483-2486.	4.1	15
59	Smart Sensing Based on DNAâ€"Metal Interaction Enables a Label-Free and Resettable Security Model of Electrochemical Molecular Keypad Lock. ACS Sensors, 2018, 3, 54-58.	7.8	14
60	Real-time gene analysis based on a portable electrochemical microfluidic system. Electrochemistry Communications, 2020, 111, 106665.	4.7	12
61	Spatial organization based reciprocal switching of enzyme-free nucleic acid circuits. Chemical Communications, 2016, 52, 13043-13046.	4.1	9
62	CE with electrochemical detection for investigation of labelâ€free recognition of amino acid amides by guanineâ€rich DNA aptamers. Electrophoresis, 2007, 28, 3122-3128.	2.4	8
63	One-Dimensional Assemblies of a DNA Tetrahedron: Manipulations on the Structural Conformation and Single-Molecule Behaviors. ACS Applied Bio Materials, 2019, 2, 1278-1285.	4.6	8
64	Sensitive, general and portable detection of RNAs combining duplex-specific nuclease transduction with an off-shelf signalling platform. Chemical Communications, 2021, 57, 5714-5717.	4.1	6
65	Coupling nucleic acid circuitry with the CRISPR-Cas12a system for universal and signal-on detection. RSC Advances, 2022, 12, 10374-10378.	3.6	4
66	Homogeneous and Universal Detection of Various Targets with a Dualâ€Step Transduced Toehold Switch Sensor. ChemBioChem, 2020, 21, 1418-1422.	2.6	3
67	Ionic liquids supported growth of highly ordered microdroplets induced by fluidic leakage at poly(dimethylsiloxane) interfaces. Analytica Chimica Acta, 2008, 625, 35-40.	5.4	2
68	CLIPON: A CRISPRâ€Enabled Strategy that Turns Commercial Pregnancy Test Strips into General Pointâ€ofâ€Need Test Devices. Angewandte Chemie, 0, , .	2.0	2
69	Dual-hairpin ligation amplification enabled ultra-sensitive and selective ATP detection for cancer monitor. Biosensors and Bioelectronics, 2022, , 114402.	10.1	2
70	Strategy for Use of Smart Routes to Prepare Label-Free Aptasensors for Bioassay Using Different Techniques. , 0, , 251-298.		1
71	Analytical potential of gold nanoparticles in functional aptamer-based biosensors. , 2013, , 85-106.		0