

Jianzhong Lu

List of Publications by Year in descending order

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40
papers

729
citations

516710

16
h-index

552781

26
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40
all docs

40
docs citations

40
times ranked

1063
citing authors

#	ARTICLE	IF	CITATIONS
1	“Turn-On” Chemiluminescence Sensor for the Highly Selective and Ultrasensitive Detection of Hg ²⁺ Ions Based on Interstrand Cooperative Coordination and Catalytic Formation of Gold Nanoparticles. <i>Analytical Chemistry</i> , 2011, 83, 9702-9708.	6.5	91
2	Visualization of in Vivo Hydrogen Sulfide Production by a Bioluminescence Probe in Cancer Cells and Nude Mice. <i>Analytical Chemistry</i> , 2015, 87, 11325-11331.	6.5	55
3	Bioluminescence Imaging of Carbon Monoxide in Living Cells and Nude Mice Based on Pd ⁰ -Mediated Tsuji–Trost Reaction. <i>Analytical Chemistry</i> , 2018, 90, 5951-5958.	6.5	44
4	DNA aptamer folding on magnetic beads for sequential detection of adenosine and cocaine by substrate-resolved chemiluminescence technology. <i>Analyst</i> , 2010, 135, 2400.	3.5	42
5	Chemiluminescence-based aptasensors for various target analytes. <i>Luminescence</i> , 2018, 33, 1298-1305.	2.9	37
6	Aptamer-barcode based immunoassay for the instantaneous derivatization chemiluminescence detection of IgE coupled to magnetic beads. <i>Analyst</i> , 2011, 136, 140-147.	3.5	36
7	Combination of quantum dot fluorescence with enzyme chemiluminescence for multiplexed detection of lung cancer biomarkers. <i>Analytical Methods</i> , 2010, 2, 1236.	2.7	31
8	Design of a phosphinate-based bioluminescent probe for superoxide radical anion imaging in living cells. <i>Luminescence</i> , 2018, 33, 1101-1106.	2.9	30
9	Additive and enhanced fluorescence effects of hairpin DNA template-based copper nanoparticles and their application for the detection of NAD ⁺ . <i>Talanta</i> , 2016, 154, 574-580.	5.5	28
10	A simple and sensitive chemiluminescence method for the determination of tiopronin for a pharmaceutical formulation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 1033-1038.	2.8	27
11	Label-free technology for the amplified detection of microRNA based on the allosteric hairpin DNA switch and hybridization chain reaction. <i>Analyst</i> , 2014, 139, 6022-6027.	3.5	27
12	Sensitive chemiluminescence aptasensor based on exonuclease-assisted recycling amplification. <i>Analytica Chimica Acta</i> , 2013, 761, 137-142.	5.4	25
13	Effect of the Concentration Difference between Magnesium Ions and Total Ribonucleotide Triphosphates in Governing the Specificity of T7 RNA Polymerase-Based Rolling Circle Transcription for Quantitative Detection. <i>Analytical Chemistry</i> , 2016, 88, 6078-6083.	6.5	24
14	Turn-On Aptameric System for Simple and Selective Detection of Protein via Base Stacking-Dependent DNA Hybridization Event. <i>Analytical Chemistry</i> , 2011, 83, 5844-5850.	6.5	23
15	A novel multi-walled carbon nanotube-based antibody conjugate for quantitative and semi-quantitative lateral flow assays. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1874-1882.	1.3	23
16	Hybridization-initiated exonuclease resistance strategy for simultaneous detection of multiple microRNAs. <i>Talanta</i> , 2018, 190, 248-254.	5.5	17
17	Efficient Strategy for the Synthesis and Modification of 2-Hydroxyethyl Luciferin for Highly Sensitive Bioluminescence Imaging of Endogenous Hydrogen Sulfide in Cancer Cells and Nude Mice. <i>Analytical Chemistry</i> , 2019, 91, 15703-15708.	6.5	17
18	Target-fueled catalytic hairpin assembly for sensitive and multiplex microRNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3019-3027.	3.7	17

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19	A conformational switch-based fluorescent biosensor for homogeneous detection of telomerase activity. <i>Talanta</i> , 2019, 199, 21-26.	5.5	14
20	Magnetic bead-based label-free chemiluminescence detection of telomeres. <i>Chemical Communications</i> , 2003, , 2888.	4.1	13
21	Target-initiated labeling for the dual-amplified detection of multiple microRNAs. <i>Analytica Chimica Acta</i> , 2017, 992, 76-84.	5.4	12
22	A lateral flow strip based on gold nanoparticles to detect 6-monoacetylmorphine in oral fluid. <i>Royal Society Open Science</i> , 2018, 5, 180288.	2.4	11
23	Aptameric system for the highly selective and ultrasensitive detection of protein in human serum based on non-stripping gold nanoparticles. <i>Analyst, The</i> , 2011, 136, 4144.	3.5	8
24	Native Mass Spectrometry Based Method for Studying the Interactions between Superoxide Dismutase 1 and Stilbenoids. <i>ACS Chemical Neuroscience</i> , 2020, 11, 184-190.	3.5	8
25	Simultaneous and sensitive detection of dual DNA targets via quantum dot-assembled amplification labels. <i>Luminescence</i> , 2016, 31, 281-287.	2.9	7
26	A dual discrimination mode for improved specificity towards let-7a detection via a single-base mutated padlock probe-based exponential rolling circle amplification. <i>Luminescence</i> , 2017, 32, 1574-1581.	2.9	7
27	A chemiluminescence resonance energy transfer strategy and its application for detection of platinum ions and cisplatin. <i>Mikrochimica Acta</i> , 2019, 186, 463.	5.0	7
28	Base excision-initiated terminal deoxynucleotide transferase-assisted amplification for simultaneous detection of multiple DNA glycosylases. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3319-3327.	3.7	7
29	Bioluminescence imaging of carbon monoxide in living cells based on a selective deiodination reaction. <i>Analyst, The</i> , 2020, 145, 550-556.	3.5	6
30	PEGylated near-infrared fluorescence probe for mitochondria-targetable hydrogen peroxide detection. <i>Talanta</i> , 2022, 243, 123370.	5.5	6
31	An allosteric switch-based hairpin for label-free chemiluminescence detection of ribonuclease H activity and inhibitors. <i>Analyst, The</i> , 2019, 144, 1420-1425.	3.5	5
32	Sensitive detection of transcription factor by coupled fluorescence-encoded microsphere with exonuclease protection. <i>Talanta</i> , 2021, 229, 122272.	5.5	5
33	A novel bioluminescent detection of exonuclease I activity based on terminal deoxynucleotidyl transferase-mediated pyrophosphate release. <i>Luminescence</i> , 2018, 33, 1157-1163.	2.9	4
34	Duplex microRNAs assay based on target-triggered universal reporter hybridization. <i>Journal of Pharmaceutical Analysis</i> , 2018, 8, 265-270.	5.3	4
35	Polystyrene Microspheres Coupled with Hybridization Chain Reaction for Dual-Amplified Chemiluminescence Detection of Specific DNA Sequences. <i>Journal of Analysis and Testing</i> , 2017, 1, 306-314.	5.1	3
36	Facile preparation of streptavidin-coated sephadex beads and their application to chemiluminescence detection of a target DNA. <i>Mikrochimica Acta</i> , 2015, 182, 495-503.	5.0	2

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37	The effects of rutin and troxerutin on stabilizing SOD1 and inhibiting protein aggregation. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8611.	1.5	2
38	Antibody free ELISA-like assay for the detection of transcription factors based on double-stranded DNA thermostability. <i>Analyst, The</i> , 2020, 145, 3339-3344.	3.5	2
39	A facile turn-on chemiluminescence probe for sensitive imaging on aminopeptidase N activity. <i>Luminescence</i> , 2022, 37, 1335-1342.	2.9	2
40	A caged 2-hydroxyethyl luciferin for bioluminescence imaging of nitroxyl in living cells. <i>Luminescence</i> , 2020, 35, 1384-1390.	2.9	0