

Dingbin Liu

List of Publications by Year in descending order

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70
papers

4,779
citations

136950

32
h-index

95266

68
g-index

78
all docs

78
docs citations

78
times ranked

6406
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanoparticles for In Vitro Diagnostics. <i>Chemical Reviews</i> , 2015, 115, 10575-10636.	47.7	725
2	Gold nanoparticles for the colorimetric and fluorescent detection of ions and small organic molecules. <i>Nanoscale</i> , 2011, 3, 1421.	5.6	392
3	A Highly Sensitive, Dual-Readout Assay Based on Gold Nanoparticles for Organophosphorus and Carbamate Pesticides. <i>Analytical Chemistry</i> , 2012, 84, 4185-4191.	6.5	389
4	Highly Sensitive, Colorimetric Detection of Mercury(II) in Aqueous Media by Quaternary Ammonium Group-Capped Gold Nanoparticles at Room Temperature. <i>Analytical Chemistry</i> , 2010, 82, 9606-9610.	6.5	315
5	Using Azobenzene-Embedded Self-Assembled Monolayers To Photochemically Control Cell Adhesion Reversibly. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4406-4408.	13.8	237
6	Resettable, Multi-Readout Logic Gates Based on Controllably Reversible Aggregation of Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4103-4107.	13.8	229
7	Glucose Oxidase-Catalyzed Growth of Gold Nanoparticles Enables Quantitative Detection of Attomolar Cancer Biomarkers. <i>Analytical Chemistry</i> , 2014, 86, 5800-5806.	6.5	160
8	Gold Nanoparticle-Based Activatable Probe for Sensing Ultralow Levels of Prostate-Specific Antigen. <i>ACS Nano</i> , 2013, 7, 5568-5576.	14.6	154
9	Acetylcholinesterase-Catalyzed Hydrolysis Allows Ultrasensitive Detection of Pathogens with the Naked Eye. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14065-14069.	13.8	123
10	Building Electromagnetic Hot Spots in Living Cells via Target-Triggered Nanoparticle Dimerization. <i>ACS Nano</i> , 2017, 11, 3532-3541.	14.6	119
11	Prussian Blue as a Highly Sensitive and Background-Free Resonant Raman Reporter. <i>Analytical Chemistry</i> , 2017, 89, 1551-1557.	6.5	95
12	A Highly Sensitive Gold Nanoparticle-Based Assay for Acetylcholinesterase in Cerebrospinal Fluid of Transgenic Mice with Alzheimer's Disease. <i>Advanced Healthcare Materials</i> , 2012, 1, 90-95.	7.6	88
13	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2021, 64, 171-203.	8.2	88
14	SERS Tags for Biomedical Detection and Bioimaging. <i>Theranostics</i> , 2022, 12, 1870-1903.	10.0	78
15	A high-throughput colorimetric assay for glucose detection based on glucose oxidase-catalyzed enlargement of gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 15584-15588.	5.6	72
16	Release Strategies of Silver Ions from Materials for Bacterial Killing. <i>ACS Applied Bio Materials</i> , 2021, 4, 3985-3999.	4.6	67
17	Highly Robust, Recyclable Displacement Assay for Mercuric Ions in Aqueous Solutions and Living Cells. <i>ACS Nano</i> , 2012, 6, 10999-11008.	14.6	62
18	Trace MicroRNA Quantification by Means of Plasmon-Enhanced Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2016, 88, 4600-4604.	6.5	60

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19	Plasmonic ELISA based on the controlled growth of silver nanoparticles. <i>Nanoscale</i> , 2016, 8, 17271-17277.	5.6	58
20	High-Precision Profiling of Sialic Acid Expression in Cancer Cells and Tissues Using Background-Free Surface-Enhanced Raman Scattering Tags. <i>Analytical Chemistry</i> , 2017, 89, 5874-5881.	6.5	49
21	Alkyne- and Nitrile-Anchored Gold Nanoparticles for Multiplex SERS Imaging of Biomarkers in Cancer Cells and Tissues. <i>Nanotheranostics</i> , 2019, 3, 113-119.	5.2	45
22	Multichannel Stimulus-Responsive Nanoprobes for H ₂ O ₂ Sensing in Diverse Biological Milieus. <i>Analytical Chemistry</i> , 2020, 92, 12639-12646.	6.5	45
23	A Wash-Free Homogeneous Colorimetric Immunoassay Method. <i>Theranostics</i> , 2016, 6, 54-64.	10.0	44
24	Nanozyme-assisted sensitive profiling of exosomal proteins for rapid cancer diagnosis. <i>Theranostics</i> , 2020, 10, 9303-9314.	10.0	44
25	Interference-Free Surface-Enhanced Raman Scattering Tags for Single-Cell Molecular Imaging with a High Signal-to-Background Ratio. <i>Small</i> , 2017, 13, 1603340.	10.0	43
26	Live-Cell Pyrophosphate Imaging by in Situ Hot-Spot Generation. <i>Analytical Chemistry</i> , 2017, 89, 3532-3537.	6.5	42
27	In Situ Hot-Spot Assembly as a General Strategy for Probing Single Biomolecules. <i>Analytical Chemistry</i> , 2017, 89, 4776-4780.	6.5	42
28	Highly Bright AIE Nanoparticles by Regulating the Substituent of Rhodanine for Precise Early Detection of Atherosclerosis and Drug Screening. <i>Advanced Materials</i> , 2022, 34, e2106994.	21.0	40
29	General Approach to Engineering Extracellular Vesicles for Biomedical Analysis. <i>Analytical Chemistry</i> , 2019, 91, 12752-12759.	6.5	38
30	In Vivo Tracking of Multiple Tumor Exosomes Labeled by Phospholipid-Based Bioorthogonal Conjugation. <i>Analytical Chemistry</i> , 2018, 90, 11273-11279.	6.5	37
31	Multiplexed Imaging of Trace Residues in a Single Latent Fingerprint. <i>Analytical Chemistry</i> , 2016, 88, 12502-12507.	6.5	34
32	Janus PEGylated gold nanoparticles: a robust colorimetric probe for sensing nitrite ions in complex samples. <i>Nanoscale</i> , 2017, 9, 1811-1815.	5.6	33
33	Reversible Self-Assembly of Nanoprobes in Live Cells for Dynamic Intracellular pH Imaging. <i>ACS Nano</i> , 2019, 13, 1421-1432.	14.6	33
34	A universal strategy for the one-pot synthesis of SERS tags. <i>Nanoscale</i> , 2018, 10, 8292-8297.	5.6	30
35	Gadolinium-doped Au@prussian blue nanoparticles as MR/SERS bimodal agents for dendritic cell activating and tracking. <i>Theranostics</i> , 2020, 10, 6061-6071.	10.0	28
36	pH-Mediated Clustering of Exosomes: Breaking Through the Size Limit of Exosome Analysis in Conventional Flow Cytometry. <i>Nano Letters</i> , 2021, 21, 8817-8823.	9.1	28

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37	Utilization of unmodified gold nanoparticles in colorimetric detection. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1757-1765.	5.1	27
38	Recent advances in background-free Raman scattering for bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 123, 115765.	11.4	27
39	Peptide interdigitation-induced twisted nanoribbons as chiral scaffolds for supramolecular nanozymes. <i>Nanoscale</i> , 2020, 12, 2422-2433.	5.6	24
40	Cross-Linked Poly(ethylene glycol) Shells for Nanoparticles: Enhanced Stealth Effect and Colloidal Stability. <i>Langmuir</i> , 2019, 35, 8799-8805.	3.5	23
41	Reliable Quantification of pH Variation in Live Cells Using Prussian Blue-Caged Surface-Enhanced Raman Scattering Probes. <i>Analytical Chemistry</i> , 2020, 92, 9574-9582.	6.5	23
42	Inâ€Sequence Highâ€Specificity Dualâ€Reporter Unlocking of Fluorescent Probe Enables the Precise Identification of Atherosclerotic Plaques. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
43	Recent progress in the application of microfluidic systems and gold nanoparticles in immunoassays. <i>Science China Chemistry</i> , 2011, 54, 1227-1232.	8.2	18
44	Stimulus-responsive surface-enhanced Raman scattering: a â€Trojan horseâ€strategy for precision molecular diagnosis of cancer. <i>Chemical Science</i> , 2020, 11, 6111-6120.	7.4	17
45	Encapsulating a Single Nanoprobe in a Multifunctional Nanogel for High-Fidelity Imaging of Caspase Activity in Vivo. <i>Analytical Chemistry</i> , 2019, 91, 13633-13638.	6.5	16
46	Using selenium-conjugated polyethylene glycol to enhance the stability of gold nanoparticles in biologically relevant samples. <i>Science China Chemistry</i> , 2019, 62, 280-286.	8.2	16
47	Chemoenzymatic Labeling of Extracellular Vesicles for Visualizing Their Cellular Internalization in Real Time. <i>Analytical Chemistry</i> , 2020, 92, 2103-2111.	6.5	13
48	Stimuliâ€Mediated Specific Isolation of Exosomes from Blood Plasma for Highâ€Throughput Profiling of Cancer Biomarkers. <i>Small Methods</i> , 2022, 6, e2101234.	8.6	12
49	A functional DNA nanosensor for highly sensitive and selective imaging of CLOâ€ in atherosclerotic plaques. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114273.	10.1	11
50	Assembly of DNA Probes into Superstructures for Dramatically Enhancing Enzymatic Stability and Signal-to-Background Ratio. <i>ACS Sensors</i> , 2018, 3, 2702-2708.	7.8	10
51	A novel SERS biosensor for ultrasensitive detection of mercury(II) in complex biological samples. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130934.	7.8	10
52	When Prussian Blue Meets Porous Gold Nanoparticles: A High Signalâ€toâ€Background Surfaceâ€Enhanced Raman Scattering Probe for Cellular Biomarker Imaging. <i>Advanced Biology</i> , 2019, 3, e1900046.	3.0	9
53	Selfâ€Assembly of Biocompatible FeSe Hollow Nanostructures and 2D CuFeSe Nanosheets with Oneâ€and Twoâ€Photon Luminescence Properties. <i>Small</i> , 2019, 15, e1900627.	10.0	9
54	Photoactive Silver Nanoagents for Backgroundless Monitoring and Precision Killing of Multidrug-Resistant Bacteria. <i>Nanotheranostics</i> , 2021, 5, 472-487.	5.2	8

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55	In-situ monitoring of nitrile-bearing pesticide residues by background-free surface-enhanced Raman spectroscopy. Chinese Chemical Letters, 2022, 33, 519-522.	9.0	8
56	Advanced technologies for single-cell in situ protein profiling. Science China Chemistry, 2022, 65, 48-67.	8.2	8
57	Cu ²⁺ Detection with Gold Nanoparticles by Patterning Colorimetric Strips on a Filter Membrane Assembled in a Microfluidic Chip. Chinese Journal of Chemistry, 2012, 30, 2047-2051.	4.9	7
58	Dual-Responsive Self-Assembled Monolayer for Specific Capture and On-Demand Release of Live Cells. Langmuir, 2018, 34, 8145-8153.	3.5	7
59	Dual functional molecule aided background-free SERS sensor for intracellular pH dynamic monitoring based on foldable DNA transition. Sensors and Actuators B: Chemical, 2022, 353, 131162.	7.8	7
60	Click RNA for Rapid Capture and Identification of Intracellular MicroRNA Targets. Analytical Chemistry, 2019, 91, 15740-15747.	6.5	6
61	Direct cytoplasm delivery of gold nanoparticles for real-time apoptosis detection. Nano Research, 2020, 13, 853-860.	10.4	6
62	Two-step signal amplification for high-sensitivity detection of biomarkers using gold nanoparticle-based conjugates. Electrophoresis, 2019, 40, 2211-2217.	2.4	5
63	Photothermal Therapy: Reversibly Extracellular pH Controlled Cellular Uptake and Photothermal Therapy by PEGylated Mixed-Charge Gold Nanostars (Small 15/2015). Small, 2015, 11, 1738-1738.	10.0	1
64	An Ultrasensitive Biosensing Platform Employing Acetylcholinesterase and Gold Nanoparticles. Methods in Molecular Biology, 2017, 1530, 307-316.	0.9	1
65	Colorimetric detection of class A soybean saponins by coupling DNAzyme with the gap ligase chain reaction. Analytical Methods, 2020, 12, 3361-3367.	2.7	1
66	Colorimetric Detection of Class A Soybean Saponins by G-Quadruplex-Based Hybridization Chain Reaction. Journal of Analytical Methods in Chemistry, 2020, 2020, 1-8.	1.6	0
67	Coating polymers on nanoparticles for biomedical uses. , 2021, , .		0
68	In-Sequence High-Specificity Dual-Reporter Unlocking of Fluorescent Probe Enables the Precise Identification of Atherosclerotic Plaques. Angewandte Chemie, 0, , .	2.0	0
69	Frontispiz: In-Sequence High-Specificity Dual-Reporter Unlocking of Fluorescent Probe Enables the Precise Identification of Atherosclerotic Plaques. Angewandte Chemie, 2022, 134, .	2.0	0
70	Frontispiece: In-Sequence High-Specificity Dual-Reporter Unlocking of Fluorescent Probe Enables the Precise Identification of Atherosclerotic Plaques. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0