

Jianbo Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

2,573
citations

30
h-index

44
g-index

115
ext. papers

3,089
ext. citations

7.2
avg, IF

5.16
L-index

#	Paper	IF	Citations
113	Enzyme-free colorimetric detection of DNA by using gold nanoparticles and hybridization chain reaction amplification. <i>Analytical Chemistry</i> , 2013 , 85, 7689-95	7.8	264
112	A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. <i>Chemical Communications</i> , 2011 , 47, 935-7	5.8	88
111	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. <i>Chemical Science</i> , 2018 , 9, 7802-7808	9.4	85
110	Visual and portable strategy for copper(II) detection based on a striplike poly(thymine)-caged and microwell-printed hydrogel. <i>Analytical Chemistry</i> , 2014 , 86, 11263-8	7.8	65
109	Hydrogen sulfide formation control and microbial competition in batch anaerobic digestion of slaughterhouse wastewater sludge: Effect of initial sludge pH. <i>Bioresource Technology</i> , 2018 , 259, 67-74 ¹¹	11	62
108	Denitrification of landfill leachate under different hydraulic retention time in a two-stage anoxic/oxic combined membrane bioreactor process: Performances and bacterial community. <i>Bioresource Technology</i> , 2018 , 250, 110-116	11	61
107	Possibility of sludge conditioning and dewatering with rice husk biochar modified by ferric chloride. <i>Bioresource Technology</i> , 2016 , 205, 258-63	11	59
106	Two-stage anoxic/oxic combined membrane bioreactor system for landfill leachate treatment: Pollutant removal performances and microbial community. <i>Bioresource Technology</i> , 2017 , 243, 738-746 ¹¹	11	59
105	Quorum quenching in anaerobic membrane bioreactor for fouling control. <i>Water Research</i> , 2019 , 156, 159-167	12.5	55
104	Recent advances in fluorescent nucleic acid probes for living cell studies. <i>Analyt, The</i> , 2013 , 138, 62-71	5	55
103	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25733-25740	9.5	54
102	Label-free and non-enzymatic detection of DNA based on hybridization chain reaction amplification and dsDNA-templated copper nanoparticles. <i>Analytica Chimica Acta</i> , 2014 , 827, 74-9	6.6	49
101	Exciton energy transfer-based fluorescent sensing through aptamer-programmed self-assembly of quantum dots. <i>Analytical Chemistry</i> , 2013 , 85, 11121-8	7.8	46
100	Immunofluorescent labeling of cancer cells with quantum dots synthesized in aqueous solution. <i>Analytical Biochemistry</i> , 2006 , 354, 169-74	3.1	46
99	Competitive host-guest interaction between β -cyclodextrin polymer and pyrene-labeled probes for fluorescence analyses. <i>Analytical Chemistry</i> , 2015 , 87, 2665-71	7.8	43
98	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. <i>Analytical Chemistry</i> , 2017 , 89, 12115-12122	7.8	39
97	A sensitive detection of T4 polynucleotide kinase activity based on β -cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. <i>Chemical Communications</i> , 2015 , 51, 1815-8	5.8	38

96	Self-assembled supramolecular nanoprobe for ratiometric fluorescence measurement of intracellular pH values. <i>Analytical Chemistry</i> , 2015 , 87, 2459-65	7.8	37
95	Fluorescent nanoparticles for chemical and biological sensing. <i>Science China Chemistry</i> , 2011 , 54, 1157-1176	17.6	37
94	Exciton energy transfer-based quantum dot fluorescence sensing array: "chemical noses" for discrimination of different nucleobases. <i>Analytical Chemistry</i> , 2015 , 87, 876-83	7.8	36
93	Aggregation control of quantum dots through ion-mediated hydrogen bonding shielding. <i>ACS Nano</i> , 2012 , 6, 4973-83	16.7	36
92	Colorimetric detection of mercury ion based on unmodified gold nanoparticles and target-triggered hybridization chain reaction amplification. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt B, 283-7	4.4	35
91	Comparison of various pretreatments for ethanol production enhancement from solid residue after rumen fluid digestion of rice straw. <i>Bioresource Technology</i> , 2018 , 247, 147-156	11	35
90	Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. <i>Biomacromolecules</i> , 2016 , 17, 1543-50	6.9	35
89	Real-time imaging of protein internalization using aptamer conjugates. <i>Analytical Chemistry</i> , 2008 , 80, 5002-8	7.8	34
88	Influence of reflux ratio on two-stage anoxic/oxic with MBR for leachate treatment: Performance and microbial community structure. <i>Bioresource Technology</i> , 2018 , 256, 69-76	11	33
87	Design and bioanalytical applications of DNA hairpin-based fluorescent probes. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 11-20	14.6	33
86	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , 2020 , 12, 1165-1173	17.6	33
85	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and "DD-A" FRET. <i>Analytical Chemistry</i> , 2018 , 90, 7164-7170	7.8	33
84	Enhancing Sewage Sludge Dewaterability by a Skeleton Builder: Biochar Produced from Sludge Cake Conditioned with Rice Husk Flour and FeCl ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5711-5717	8.3	31
83	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. <i>Chemical Science</i> , 2020 , 11, 8617-8625	9.4	30
82	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. <i>Chemical Communications</i> , 2017 , 53, 5565-5568	5.8	28
81	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. <i>Analytical Chemistry</i> , 2018 , 90, 6131-6137	7.8	26
80	Use of mercaptophenylboronic acid functionalized gold nanoparticles in a sensitive and selective dynamic light scattering assay for glucose detection in serum. <i>Analyst</i> , 2013 , 138, 5146-50	5	26
79	Recyclable magnetite-enhanced electromethanogenesis for biomethane production from wastewater. <i>Water Research</i> , 2019 , 166, 115095	12.5	25

78	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6853-6859	16.4	25
77	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2866-2874	16.4	25
76	A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. <i>Chinese Chemical Letters</i> , 2014 , 25, 9-14	8.1	24
75	Ultra-pH-responsive split i-motif based aptamer anchoring strategy for specific activatable imaging of acidic tumor microenvironment. <i>Chemical Communications</i> , 2018 , 54, 10288-10291	5.8	22
74	Single-walled carbon nanotubes (SWCNTs)-assisted cell-systematic evolution of ligands by exponential enrichment (cell-SELEX) for improving screening efficiency. <i>Analytical Chemistry</i> , 2014 , 86, 9466-72	7.8	22
73	High Signal-to-Background Ratio Detection of Cancer Cells with Activatable Strategy Based on Target-Induced Self-Assembly of Split Aptamers. <i>Analytical Chemistry</i> , 2017 , 89, 9347-9353	7.8	22
72	Combining physical embedding and covalent bonding for stable encapsulation of quantum dots into agarose hydrogels. <i>Journal of Materials Chemistry</i> , 2012 , 22, 495-501		22
71	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. <i>Chemical Communications</i> , 2015 , 51, 14357-60	5.8	21
70	Temperature-responsive split aptamers coupled with polymerase chain reaction for label-free and sensitive detection of cancer cells. <i>Chemical Communications</i> , 2017 , 53, 11889-11892	5.8	20
69	Effective decolorization of anthraquinone dye reactive blue 19 using immobilized <i>Bacillus</i> sp. JF4 isolated by resuscitation-promoting factor strategy. <i>Water Science and Technology</i> , 2020 , 81, 1159-1169	2.2	20
68	Self-assembled DNA nanowires as quantitative dual-drug nanocarriers for antitumor chemophotodynamic combination therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7529-7537	7.3	20
67	Single nanoparticle imaging and characterization of different phospholipid-encapsulated quantum dot micelles. <i>Langmuir</i> , 2012 , 28, 10602-9	4	20
66	G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. <i>Analytical Methods</i> , 2012 , 4, 895	3.2	19
65	Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. <i>Chemical Communications</i> , 2009 , 6080-2	5.8	19
64	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. <i>ACS Sensors</i> , 2017 , 2, 308-315	9.2	18
63	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. <i>Analyst, The</i> , 2015 , 140, 6100-7	5	18
62	Red blood cell membrane-mediated fusion of hydrophobic quantum dots with living cell membranes for cell imaging. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4191-4197	7.3	18
61	Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host-guest interactions between β -cyclodextrin polymer and pyrene. <i>Analyst, The</i> , 2016 , 141, 2502-7	5	18

60	Use of Cyclodextrin-tethered cationic polymer based fluorescence enhancement of pyrene and hybridization chain reaction for the enzyme-free amplified detection of DNA. <i>Analyst, The</i> , 2016 , 142, 224-228	5	17
59	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. <i>Bioresource Technology</i> , 2020 , 315, 123862	11	17
58	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2021 , 93, 6715-6722	7.8	17
57	A Simple, pH-Activatable Fluorescent Aptamer Probe with Ultralow Background for Bispecific Tumor Imaging. <i>Analytical Chemistry</i> , 2019 , 91, 9154-9160	7.8	16
56	Recognition-Driven Remodeling of Dual-Split Aptamer Triggering In Situ Hybridization Chain Reaction for Activatable and Autonomous Identification of Cancer Cells. <i>Analytical Chemistry</i> , 2020 , 92, 10839-10846	7.8	15
55	Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. <i>Chinese Chemical Letters</i> , 2014 , 25, 1047-1051	8.1	15
54	A multiple amplification strategy for nucleic acid detection based on host-guest interaction between the Cyclodextrin polymer and pyrene. <i>Analyst, The</i> , 2015 , 140, 2016-22	5	15
53	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. <i>Analyst, The</i> , 2018 , 143, 3579-3585	5	15
52	Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. <i>ChemMedChem</i> , 2018 , 13, 2037-2044	3.7	14
51	Ratiometric determination of human papillomavirus-16 DNA by using fluorescent DNA-templated silver nanoclusters and hairpin-blocked DNAzyme-assisted cascade amplification. <i>Mikrochimica Acta</i> , 2019 , 186, 613	5.8	14
50	Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobe. <i>Nanoscale</i> , 2013 , 5, 11257-64	7.7	14
49	Design of a Modular DNA Triangular-Prism Sensor Enabling Ratiometric and Multiplexed Biomolecule Detection on a Single Microbead. <i>Analytical Chemistry</i> , 2017 , 89, 3590-3596	7.8	13
48	Tuning transport selectivity of ionic species by phosphoric acid gradient in positively charged nanochannel membranes. <i>Analytical Chemistry</i> , 2015 , 87, 1544-51	7.8	13
47	Aptamer-mediated indirect quantum dot labeling and fluorescent imaging of target proteins in living cells. <i>Nanotechnology</i> , 2014 , 25, 505502	3.4	12
46	Liposome-Boosted Peroxidase-Mimicking Nanozymes Breaking the pH Limit. <i>Chemistry - A European Journal</i> , 2020 , 26, 16659-16665	4.8	12
45	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host-guest interaction between Cyclodextrin polymer and pyrene. <i>Talanta</i> , 2015 , 144, 529-34	6.2	11
44	Anomalous effects of water flow through charged nanochannel membranes. <i>RSC Advances</i> , 2014 , 4, 26739-26737	3.9	11
43	pH and ion strength modulated ionic species loading in mesoporous silica nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 415501	3.4	11

42	Uricase-containing coacervate microdroplets as enzyme active membrane-free protocells for detoxification of uric acid in serum. <i>Chemical Communications</i> , 2019 , 55, 13880-13883	5.8	11
41	Controlled formation of Ag ₂ S/Ag Janus nanoparticles using alkylamine as reductant surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 544, 111-117	5.1	10
40	Steric hindrance regulated supramolecular assembly between Cyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 156, 131-7	4.4	10
39	Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. <i>Chinese Chemical Letters</i> , 2020 , 31, 787-791	8.1	9
38	Single-stranded DNA designed lipophilic G-quadruplexes as transmembrane channels for switchable potassium transport. <i>Chemical Communications</i> , 2019 , 55, 12004-12007	5.8	8
37	A near-infrared light-responsive nanocomposite for photothermal release of HS and suppression of cell viability. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5992-5997	7.3	8
36	DNA supersandwich assemblies as artificial receptors to mediate intracellular delivery of catalase for efficient ROS scavenging. <i>Chemical Communications</i> , 2019 , 55, 4242-4245	5.8	8
35	Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells. <i>Small</i> , 2020 , 16, e2002073	11	8
34	Intelligent Nucleic Acid Functionalized Dual-Responsive Gold Nanoflare: Logic-Gate Nanodevice Visualized by Single-Nanoparticle Imaging. <i>ChemistrySelect</i> , 2016 , 1, 347-353	1.8	8
33	Flexible Assembly of an Enzyme Cascade on a DNA Triangle Prism Nanostructure for the Controlled Biomimetic Generation of Nitric Oxide. <i>ChemBioChem</i> , 2018 , 19, 2099-2106	3.8	7
32	Using personal uric acid meter and enzyme-DNA conjugate for portable and quantitative DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 515-520	8.5	7
31	Pollutant removal from landfill leachate via two-stage anoxic/oxic combined membrane bioreactor: Insight in organic characteristics and predictive function analysis of nitrogen-removal bacteria. <i>Bioresource Technology</i> , 2020 , 317, 124037	11	7
30	Butyrate can support PAOs but not GAOs in tropical climates. <i>Water Research</i> , 2021 , 193, 116884	12.5	7
29	Biomimetic synthesis of highly biocompatible gold nanoparticles with amino acid-dithiocarbamate as a precursor for SERS imaging. <i>Nanotechnology</i> , 2016 , 27, 105603	3.4	7
28	Mitochondria targeted self-assembled ratiometric fluorescent nanoprobe for pH imaging in living cells. <i>Analytical Methods</i> , 2019 , 11, 2097-2104	3.2	6
27	Selection of Affinity Reagents to Neutralize the Hemolytic Toxicity of Melittin Based on a Self-Assembled Nanoparticle Library. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16040-16049	9.5	6
26	Integration of cell-free protein synthesis and purification in one microfluidic chip for on-demand production of recombinant protein. <i>Biomicrofluidics</i> , 2018 , 12, 054102	3.2	6
25	Biomimetic nanochannel membrane for cascade response of borate and cis-hydroxyl compounds: An IMP logic gate device. <i>Chinese Chemical Letters</i> , 2019 , 30, 1397-1400	8.1	5

24	Lipophilic G-Quadruplex Isomers as Biomimetic Ion Channels for Conformation-Dependent Selective Transmembrane Transport. <i>Analytical Chemistry</i> , 2020 , 92, 10169-10176	7.8	5
23	A self-assembled conformational switch: a host-guest stabilized triple stem molecular beacon via a photoactivated and thermal regeneration mode. <i>Chemical Communications</i> , 2014 , 50, 7803-5	5.8	5
22	Preparation of luminescent CdTe quantum dots doped core-shell nanoparticles and their application in cell recognition. <i>Science Bulletin</i> , 2005 , 50, 1703		5
21	Metallurgical leaching of metal powder for facile and generalized synthesis of metal sulfide nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 497, 344-351	5.1	5
20	Protein- driven disassembly of surfactant- polyelectrolyte nanomicelles: Modulation of quantum dot/fluorochrome FRET for pattern sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 393-399	8.5	5
19	Phosphate modulated permeability of mesoporous silica spheres: a biomimetic ion channel decorated compartment model. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 323-329	7.3	4
18	DNA-Silver Nanocluster Binary Probes for Ratiometric Fluorescent Detection of HPV-related DNA. <i>Chemical Research in Chinese Universities</i> , 2019 , 35, 581-585	2.2	3
17	Sensitive and specific detection of tumour cells based on a multivalent DNA nanocreeper and a multiplexed fluorescence supersandwich. <i>Chemical Communications</i> , 2020 , 56, 3693-3696	5.8	3
16	A simple and sensitive assay for apurinic/apyrimidinic endonuclease 1 activity based on host-guest interaction of Cyclodextrin polymer and pyrene. <i>Chinese Chemical Letters</i> , 2018 , 29, 973-976	8.1	3
15	Selection of Aptamers for Hydrophobic Drug Docetaxel To Improve Its Solubility. <i>ACS Applied Bio Materials</i> , 2018 , 1, 168-174	4.1	3
14	Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. <i>Chemical Science</i> , 2021 , 12, 8224-8230	9.4	3
13	Self-immobilization of coacervate droplets by enzyme-mediated hydrogelation. <i>Chemical Communications</i> , 2021 , 57, 5438-5441	5.8	3
12	A facile approach toward multicolor polymers: Supramolecular self-assembly via host-guest interaction. <i>Chinese Chemical Letters</i> , 2014 , 25, 1318-1322	8.1	2
11	Ion-mediated self-assembly of Cys-capped quantum dots for fluorescence detection of As(iii) in water. <i>Analytical Methods</i> , 2020 , 12, 4229-4234	3.2	2
10	Enhancing the Sensitivity of DNA and Aptamer Probes in the Dextran/PEG Aqueous Two-Phase System. <i>Analytical Chemistry</i> , 2021 , 93, 8577-8584	7.8	2
9	Dopamine modulated ionic permeability in mesoporous silica sphere based biomimetic compartment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 142, 266-271	6	1
8	Application of Nucleic Acid Aptamers in Polypeptides Researches. <i>Chinese Journal of Analytical Chemistry</i> , 2017 , 45, 1795-1803	1.6	1
7	Coacervate microdroplet protocell-mediated gene transfection for nitric oxide production and induction of cell apoptosis. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9784-9793	7.3	1

6	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. <i>Advanced Biology</i> , 2021 , 5, e2100695		1
5	An ion transport switch based on light-responsive conformation-dependent G-quadruplex transmembrane channels. <i>Chemical Communications</i> , 2021 , 57, 8214-8217	5.8	1
4	Acidic microenvironment triggered assembly of activatable three-arm aptamer nanoclave for contrast-enhanced imaging and tumor growth inhibition .. <i>Theranostics</i> , 2022 , 12, 3474-3487	12.1	0
3	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. <i>Angewandte Chemie</i> , 2020 , 132, 6920-6926	3.6	
2	Innentitelbild: Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies (Angew. Chem. 17/2020). <i>Angewandte Chemie</i> , 2020 , 132, 6698-6698	3.6	
1	Mutual Interaction Models: Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells (Small 29/2020). <i>Small</i> , 2020 , 16, 2070162	11	