

Jianbo Liu

List of Publications by Year in descending order

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114
papers

3,557
citations

109264

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h-index

168321

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115
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docs citations

115
times ranked

4501
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-Free Colorimetric Detection of DNA by Using Gold Nanoparticles and Hybridization Chain Reaction Amplification. <i>Analytical Chemistry</i> , 2013, 85, 7689-7695.	3.2	294
2	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. <i>Chemical Science</i> , 2018, 9, 7802-7808.	3.7	117
3	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.	4.8	107
4	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , 2020, 12, 1165-1173.	6.6	101
5	A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. <i>Chemical Communications</i> , 2011, 47, 935-937.	2.2	94
6	Possibility of sludge conditioning and dewatering with rice husk biochar modified by ferric chloride. <i>Bioresource Technology</i> , 2016, 205, 258-263.	4.8	93
7	Quorum quenching in anaerobic membrane bioreactor for fouling control. <i>Water Research</i> , 2019, 156, 159-167.	5.3	91
8	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.	4.8	87
9	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , 2021, 143, 2866-2874.	6.6	82
10	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25733-25740.	4.0	80
11	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, 11263-11268.	3.2	77
12	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. <i>Chemical Science</i> , 2020, 11, 8617-8625.	3.7	73
13	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.	4.8	72
14	Recent advances in fluorescent nucleic acid probes for living cell studies. <i>Analyst, The</i> , 2013, 138, 62-71.	1.7	62
15	Exciton Energy Transfer-Based Fluorescent Sensing through Aptamer-Programmed Self-Assembly of Quantum Dots. <i>Analytical Chemistry</i> , 2013, 85, 11121-11128.	3.2	54
16	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and FRET. <i>Analytical Chemistry</i> , 2018, 90, 7164-7170.	3.2	54
17	Immunofluorescent labeling of cancer cells with quantum dots synthesized in aqueous solution. <i>Analytical Biochemistry</i> , 2006, 354, 169-174.	1.1	52
18	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, 74-79.	2.6	51

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19	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.	4.8	50
20	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6853-6859.	7.2	49
21	Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. <i>Biomacromolecules</i> , 2016, 17, 1543-1550.	2.6	48
22	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. <i>Analytical Chemistry</i> , 2017, 89, 12115-12122.	3.2	48
23	Competitive Host-Guest Interaction between β -Cyclodextrin Polymer and Pyrene-Labeled Probes for Fluorescence Analyses. <i>Analytical Chemistry</i> , 2015, 87, 2665-2671.	3.2	47
24	Recyclable magnetite-enhanced electromethanogenesis for biomethane production from wastewater. <i>Water Research</i> , 2019, 166, 115095.	5.3	45
25	Self-Assembled Supramolecular Nanoprobes for Ratiometric Fluorescence Measurement of Intracellular pH Values. <i>Analytical Chemistry</i> , 2015, 87, 2459-2465.	3.2	43
26	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.	3.2	43
27	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, 283-287.	2.0	42
28	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, 1815-1818.	2.2	41
29	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.	4.8	41
30	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. <i>Analytical Chemistry</i> , 2018, 90, 6131-6137.	3.2	41
31	Fluorescent nanoparticles for chemical and biological sensing. <i>Science China Chemistry</i> , 2011, 54, 1157-1176.	4.2	40
32	Design and bioanalytical applications of DNA hairpin-based fluorescent probes. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 53, 11-20.	5.8	39
33	Real-Time Imaging of Protein Internalization Using Aptamer Conjugates. <i>Analytical Chemistry</i> , 2008, 80, 5002-5008.	3.2	38
34	Aggregation Control of Quantum Dots through Ion-Mediated Hydrogen Bonding Shielding. <i>ACS Nano</i> , 2012, 6, 4973-4983.	7.3	38
35	Exciton Energy Transfer-Based Quantum Dot Fluorescence Sensing Array: "Chemical Noses" for Discrimination of Different Nucleobases. <i>Analytical Chemistry</i> , 2015, 87, 876-883.	3.2	37
36	A Simple, pH-Activatable Fluorescent Aptamer Probe with Ultralow Background for Bispecific Tumor Imaging. <i>Analytical Chemistry</i> , 2019, 91, 9154-9160.	3.2	34

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37	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.	3.2	34
38	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. <i>Chemical Communications</i> , 2017, 53, 5565-5568.	2.2	33
39	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.	2.2	33
40	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. <i>Bioresource Technology</i> , 2020, 315, 123862.	4.8	32
41	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.	1.2	29
42	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.	1.7	28
43	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, 9466-9472.	3.2	28
44	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.	3.2	28
45	Liposome-Boosted Peroxidase-Mimicking Nanozymes Breaking the pH Limit. <i>Chemistry - A European Journal</i> , 2020, 26, 16659-16665.	1.7	28
46	A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. <i>Chinese Chemical Letters</i> , 2014, 25, 9-14.	4.8	27
47	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. <i>Chemical Communications</i> , 2015, 51, 14357-14360.	2.2	27
48	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2021, 93, 6715-6722.	3.2	27
49	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.	2.2	26
50	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.	2.9	26
51	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.	6.7	24
52	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.	2.5	24
53	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. <i>Analyst</i> , 2015, 140, 6100-6107.	1.7	23
54	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.	2.9	22

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55	Single Nanoparticle Imaging and Characterization of Different Phospholipid-Encapsulated Quantum Dot Micelles. <i>Langmuir</i> , 2012, 28, 10602-10609.	1.6	21
56	Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. <i>Chemical Science</i> , 2021, 12, 8224-8230.	3.7	21
57	Enhancing the Sensitivity of DNA and Aptamer Probes in the Dextran/PEG Aqueous Two-Phase System. <i>Analytical Chemistry</i> , 2021, 93, 8577-8584.	3.2	21
58	Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. <i>Chinese Chemical Letters</i> , 2014, 25, 1047-1051.	4.8	20
59	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.	3.2	20
60	Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. <i>ChemMedChem</i> , 2018, 13, 2037-2044.	1.6	20
61	Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. <i>Chinese Chemical Letters</i> , 2020, 31, 787-791.	4.8	20
62	Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells. <i>Small</i> , 2020, 16, e2002073.	5.2	20
63	Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. <i>Chemical Communications</i> , 2009, , 6080.	2.2	19
64	G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. <i>Analytical Methods</i> , 2012, 4, 895.	1.3	19
65	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. <i>ACS Sensors</i> , 2017, 2, 308-315.	4.0	19
66	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.	2.2	19
67	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, 2502-2507.	1.7	18
68	Use of β -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> , 2017, 142, 224-228.	1.7	18
69	Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobe. <i>Nanoscale</i> , 2013, 5, 11257.	2.8	17
70	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. <i>Analyst, The</i> , 2018, 143, 3579-3585.	1.7	17
71	Butyrate can support PAOs but not GAOs in tropical climates. <i>Water Research</i> , 2021, 193, 116884.	5.3	17
72	Tuning Transport Selectivity of Ionic Species by Phosphoric Acid Gradient in Positively Charged Nanochannel Membranes. <i>Analytical Chemistry</i> , 2015, 87, 1544-1551.	3.2	15

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73	A multiple amplification strategy for nucleic acid detection based on host-guest interaction between the β -cyclodextrin polymer and pyrene. <i>Analyst</i> , 2015, 140, 2016-2022.	1.7	15
74	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.	4.8	15
75	Aptamer-mediated indirect quantum dot labeling and fluorescent imaging of target proteins in living cells. <i>Nanotechnology</i> , 2014, 25, 505502.	1.3	14
76	Lipophilic G-Quadruplex Isomers as Biomimetic Ion Channels for Conformation-Dependent Selective Transmembrane Transport. <i>Analytical Chemistry</i> , 2020, 92, 10169-10176.	3.2	14
77	Anomalous effects of water flow through charged nanochannel membranes. <i>RSC Advances</i> , 2014, 4, 26729-26737.	1.7	13
78	Biomimetic synthesis of highly biocompatible gold nanoparticles with amino acid-dithiocarbamate as a precursor for SERS imaging. <i>Nanotechnology</i> , 2016, 27, 105603.	1.3	13
79	A near-infrared light-responsive nanocomposite for photothermal release of H ₂ S and suppression of cell viability. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5992-5997.	2.9	13
80	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host-guest interaction between β -cyclodextrin polymer and pyrene. <i>Talanta</i> , 2015, 144, 529-534.	2.9	12
81	pH and ion strength modulated ionic species loading in mesoporous silica nanoparticles. <i>Nanotechnology</i> , 2013, 24, 415501.	1.3	11
82	Steric hindrance regulated supramolecular assembly between β -cyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 156, 131-137.	2.0	11
83	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.	2.3	11
84	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.	1.3	11
85	Single-stranded DNA designed lipophilic G-quadruplexes as transmembrane channels for switchable potassium transport. <i>Chemical Communications</i> , 2019, 55, 12004-12007.	2.2	11
86	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.	4.0	11
87	Intelligent Nucleic Acid Functionalized Dual-Responsive Gold Nanoflare: Logic-Gate Nanodevice Visualized by Single-Nanoparticle Imaging. <i>ChemistrySelect</i> , 2016, 1, 347-353.	0.7	10
88	An ion transport switch based on light-responsive conformation-dependent G-quadruplex transmembrane channels. <i>Chemical Communications</i> , 2021, 57, 8214-8217.	2.2	10
89	Self-immobilization of coacervate droplets by enzyme-mediated hydrogelation. <i>Chemical Communications</i> , 2021, 57, 5438-5441.	2.2	9
90	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.	4.0	8

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91	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.	1.2	8
92	Mitochondria targeted self-assembled ratiometric fluorescent nanoprobe for pH imaging in living cells. <i>Analytical Methods</i> , 2019, 11, 2097-2104.	1.3	8
93	DNA supersandwich assemblies as artificial receptors to mediate intracellular delivery of catalase for efficient ROS scavenging. <i>Chemical Communications</i> , 2019, 55, 4242-4245.	2.2	8
94	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.	2.2	8
95	A simple and sensitive assay for apurinic/aprimidinic endonuclease 1 activity based on host-guest interaction of β -cyclodextrin polymer and pyrene. <i>Chinese Chemical Letters</i> , 2018, 29, 973-976.	4.8	7
96	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, 7803-7805.	2.2	6
97	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.	2.3	6
98	DNA-Silver Nanocluster Binary Probes for Ratiometric Fluorescent Detection of HPV-related DNA. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 581-585.	1.3	6
99	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.	4.8	6
100	Preparation of luminescent CdTe quantum dots doped core-shell nanoparticles and their application in cell recognition. <i>Science Bulletin</i> , 2005, 50, 1703.	1.7	5
101	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.	4.0	5
102	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.	2.9	4
103	Selection of Aptamers for Hydrophobic Drug Docetaxel To Improve Its Solubility. <i>ACS Applied Bio Materials</i> , 2018, 1, 168-174.	2.3	4
104	Ion-mediated self-assembly of Cys-capped quantum dots for fluorescence detection of As(SCp) ₃ in water. <i>Analytical Methods</i> , 2020, 12, 4229-4234.	1.3	4
105	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.	2.9	4
106	Acidic microenvironment triggered <i>in situ</i> assembly of activatable three-arm aptamer nanoclaw for contrast-enhanced imaging and tumor growth inhibition <i>in vivo</i> . <i>Theranostics</i> , 2022, 12, 3474-3487.	4.6	4
107	A facile approach toward multicolor polymers: Supramolecular self-assembly via host-guest interaction. <i>Chinese Chemical Letters</i> , 2014, 25, 1318-1322.	4.8	3
108	Dopamine modulated ionic permeability in mesoporous silica sphere based biomimetic compartment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 266-271.	2.5	1

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109	Application of Nucleic Acid Aptamers in Polypeptides Researches. Chinese Journal of Analytical Chemistry, 2017, 45, 1795-1803.	0.9	1
110	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. Advanced Biology, 2021, 5, e2100695.	1.4	1
111	Enzyme-active liquid coacervate microdroplets as artificial membraneless organelles for intracellular ROS scavenging. Biomaterials Science, 2022, 10, 4588-4595.	2.6	1
112	Mutual Interaction Models: Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells (Small 29/2020). Small, 2020, 16, 2070162.	5.2	0
113	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. Angewandte Chemie, 2020, 132, 6920-6926.	1.6	0
114	Innentitelbild: Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies (Angew. Chem. 17/2020). Angewandte Chemie, 2020, 132, 6698-6698.	1.6	0